

EVOLUTION OTTAWA

1st Joint Congress on Evolutionary Biology

Congress Program

American Society of Naturalists

Canadian Society for Ecology and Evolution

European Society for Evolutionary Biology

Society for the Study of Evolution

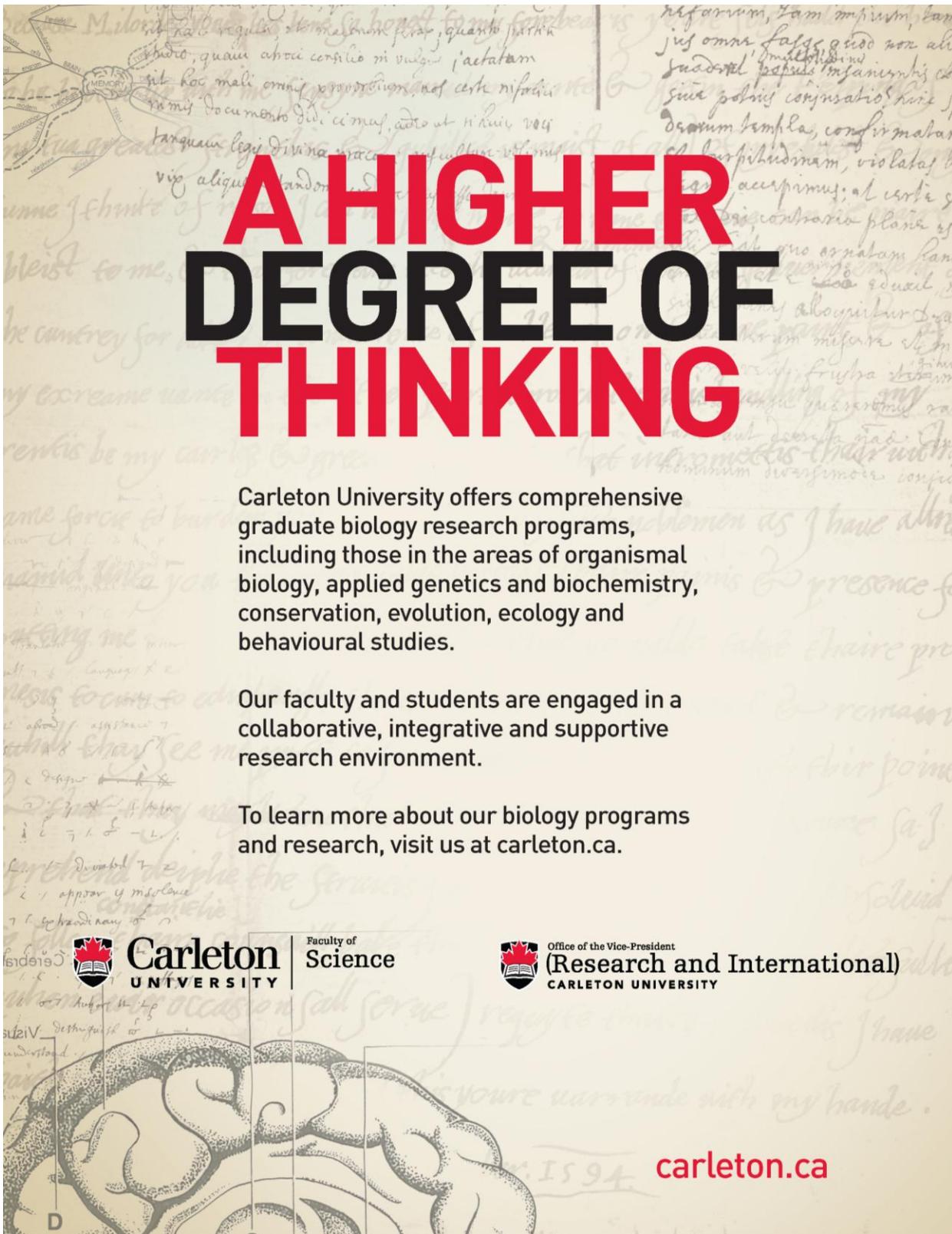
Society of Systematic Biologists

Annual Meeting

July 6-10, 2012

Ottawa, Ontario, CANADA





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Welcome

We are delighted to welcome you to the 1st *Joint Congress on Evolutionary Biology*. The new name of the meeting reflects its unique nature, being the first time that these five societies have met together. The joint nature has led to record high registrations—over 2,300 as this goes to print—and to an unprecedented diversity of talks and posters. It is the aim of participating societies that such joint meetings recur periodically into the future, and we hope you enjoy the first.

It is also our pleasure to welcome you to Ottawa, Canada's capital and the 4th largest city in the country. Ottawa is situated on the Ottawa River, which marks the border between Ontario and Quebec: you'll hear both French and English spoken on the streets. The national capital region is home to 29 museums including the National Gallery of Canada, the Canadian Museum of Civilization, the Canadian Museum of Nature, the Canadian War Museum, and the Canada Science and Technology Museum, to name but a few. It is also home to Bluesfest, one of N. America's best outdoor music festivals, which this year runs from July 4-15 (i.e. during the meeting). Ottawa also boasts a diverse culinary scene, along with many great pubs.

Thanks for coming – we hope you find time to explore the city and surrounding regions!

Howard Rundle, University of Ottawa

Andrew Simons, Carleton University

Acknowledgements

The congress has been made possible through the hard work of many people, most notably Chuck Schouwerwou and his staff and *ConferSense Planners* including Marie Marin, Nick Sont, and Nicole Jeffrey. Alex Wong and Stacey Lee-Jenkins coordinated the student workshops, Richard Webster handled our meeting blog, Rees Kassen served as media liaison, and Anurag Priyam implemented our poster invitation system. The iEvoBio satellite meeting was organized by Hilmar Lapp (chairperson), Robert Beiko, Nico Cellinese, Robert Guralnick, Rebecca Kao, Ellinor Michel, Nadia Talent, and Andrea Thomer. Kristin Jenkins handled the education activities. We received much advice from past meeting hosts including Mitch Cruzan, Larry Weider, Rich Broughton and Ingo Schlupp, and relied heavily on various officers and committee members of all five societies, in particular two SSE Exec. V.-P.'s: Charlie Fenster and Butch Brodie. Numerous local volunteers helped in various capacities, in particular Bénédicte Rivière, Shayda Spakowski, and Jacqueline Sztepanacz. To all the organizers of the various symposia, workshops, and other special events – a heartfelt thank you!

We also thank all our sponsors, in particular Ottawa Tourism, Carleton University, and the University of Ottawa, for generous financial contributions. Daycare was funded in part by a grant from Oxford University Press, and the live performance by Baba Brinkman was only possible through his flexibility, along with financial contributions from both Cell Press and Oxford University Press.

Program-at-a-Glance

nature publishing group



Main congress events are listed here. See full program for info specific to societies & journals, sponsors, on workshops, and for iEvoBio.

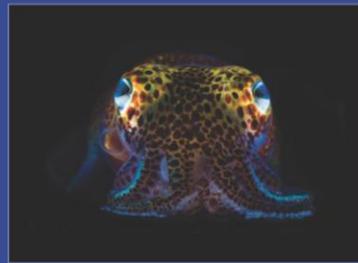
| Friday, July 6 | Saturday, July 7 | Sunday, July 8 | Monday, July 9 | Tuesday, July 10 |
|--|--|---|---|--|
| 8:30 | 8:30 | 8:30 | 8:30 | 8:30 |
| Pre-conference council & editorial board meetings (see program for start/end times) | Concurrent sessions Society-sponsored symposia: SSB: Predictive approaches for assessing the fit of evolutionary models SSE: Genome evolution and speciation & Education Symposium: Teaching with data | Concurrent sessions Society-sponsored symposia: SSB: Mayr symposium CSEE: The structure and dynamics of ecological networks: from genes to ecosystems & Education outreach (SSE) | Concurrent sessions Society-sponsored symposia: SSE: 'Next generation' genomics of parallelism and convergence ASN: Towards an evolutionary community ecology | Concurrent sessions Joint society awards symposium |
| | 12:00 LUNCH (provided) Soc. business mtgs. (SSB, SSE) NPG/Wiley: How to get published ERC funding opportunities | 12:00 LUNCH (provided) Soc. business mtg. (CSEE) How to get a job in academia NSF Funding opportunities | 12:00 LUNCH (provided) Soc. business mtg. (ASN) NSERC Discovery grant info session NSERC student/PDF info session | 12:00 LUNCH (NOT provided. For suggestions, see "Dining in Ottawa" in congress program) |
| 1:00 CSEE Kids' outreach at Canadian Museum of Nature | 1:15 Concurrent sessions Society-sponsored symposia: ESEB: Influential symbionts: master manipulators of adaptive host behaviour SSB: New phylogenetic methods for quantitative trait evolution | 1:15 Concurrent sessions Society-sponsored symposia: ESEB: The physiological mechanisms that shape life histories CSEE: Eco-evolutionary dynamics: how ecological and evolutionary process influence one another | 1:15 Concurrent sessions Society-sponsored symposia: ASN VP: Natural selection in the wild: from genotype to phenotype SWEET symposium | 2:00 Concurrent sessions Joint society awards symposium Panel discussion: Role of science in policy |
| Registration 2nd floor OCC---Registration 2nd floor OCC---Registration 2nd floor OCC | 4:45 SSB Plenary: David Mindell (Canada Hall) | 4:45 CSEE Plenary: Spencer Barrett (Canada Hall) | 4:45 ASN Plenary: Stevan Arnold (Canada Hall) | 4:00 ESEB President's Award: Adam Eyre-Walker (Canada Hall) |
| | 5:45 SSB mixer (Trillium Ballroom) | 5:45 ASN mixer (Trillium Ballroom) SWEET mixer (214) | 5:45 ASN mixer (Trillium Ballroom) SWEET mixer (214) | 5:00 SSE Plenary: Scott Edwards (Canada Hall) |
| 6:00 Opening reception (OCC Trillium Ballroom, Parliament Foyer) | 7:30 Poster Session I (Parliament Foyer, Trillium Ballroom, Canada Hall 1) | 7:30 CSEE Public outreach talk: Rosie Redfield | 7:30 Poster Session II (Parliament Foyer, Trillium Ballroom, Canada Hall 1) | 6:00 Buses to Museum start 6:30 Congress Farewell Dinner Party (Canadian Museum of Civilization) |
| | 9:30 NESCent Evolution Film Festival (208) | 8:30 CSEE mixer (Trillium Ballroom) | 9:30 Live performance: Rap Guide to Evolution Baba Brinkman (214) | |

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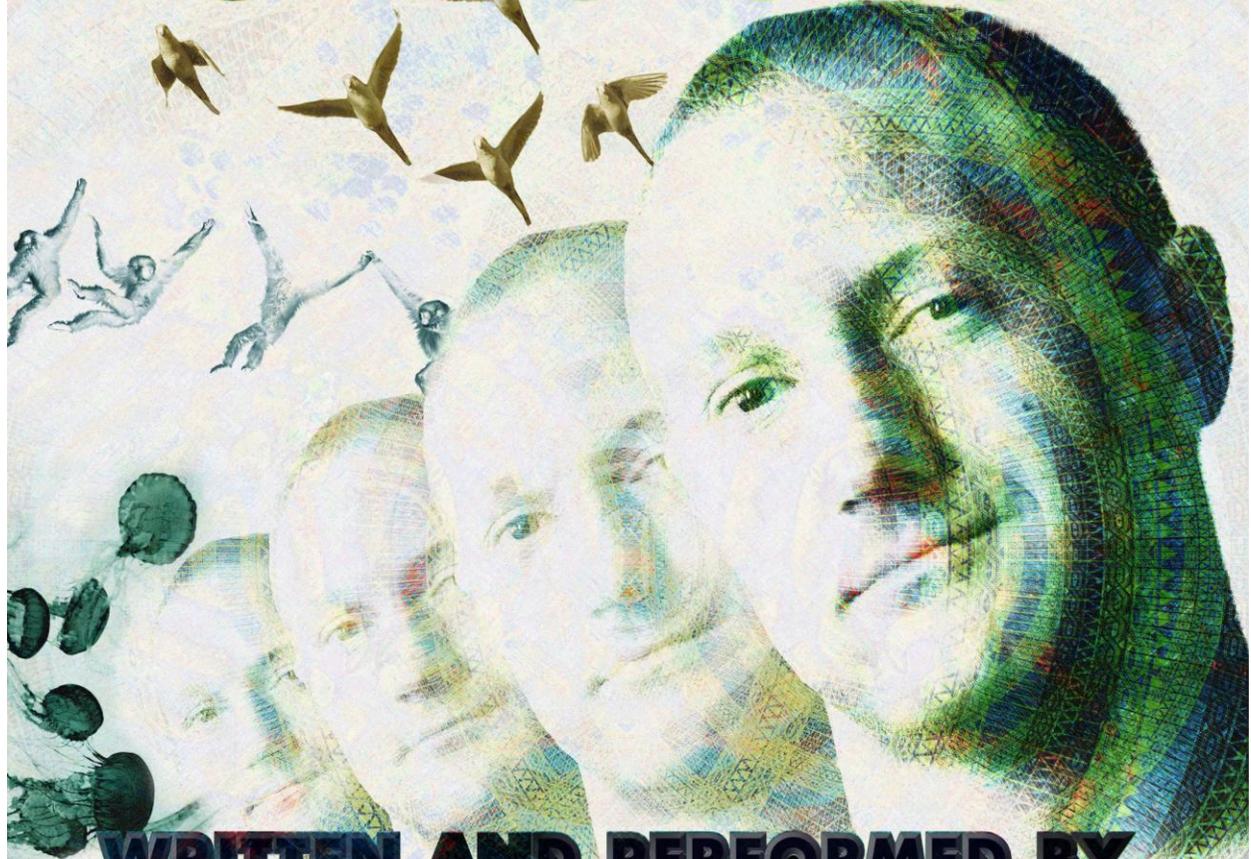
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General Information

Location

The opening reception and main congress will be held at the award winning Ottawa Convention Centre (OCC). Opened in May, 2011, the OCC was built to LEED Silver Certification standards (Canada Green Building Council), demonstrating a commitment to providing an environmentally healthy and 'green' meeting facility. The OCC is centrally located in downtown Ottawa beside the Rideau Canal (a UNESCO World Heritage Site) and within walking distance of numerous attractions and landmarks including the ByWard Market, an area roughly four blocks square in which can be found museums, cafés, specialty food shops, boutiques, galleries, restaurants, and pubs. The OCC is a 15-20 minute taxi/shuttle ride from the Ottawa International Airport, and is directly linked to the Westin Ottawa Hotel and the 180-store Rideau Centre shopping complex. All congress hotels are within walking distance of these and more downtown attractions.

The final congress dinner party will be held at the spectacular Canadian Museum of Civilization, located across the Ottawa River in 'La Belle Province' of Québec. Free transportation is provided or enjoy the gorgeous ~25 min walk from the OCC to the museum. For those interested in walking, guides will be leaving from the OCC at ~6:15 and 6:45 pm. Several pre/post conference workshops are being held on the campus of the University of Ottawa, immediately beside the residence accommodation and only a 10 min walk from the OCC. The 'Communicating science to society' workshop is at the Ottawa Rowing Club, a ~17 min walk from the OCC, just past the ByWard Market on the river shore.

Registration & information

The registration and information desk will be located on the 2nd floor of the OCC and will be attended during the times listed below. Staff and volunteers will be identified by distinctive red congress t-shirts; don't hesitate to ask any of them for help. Registration for the main congress includes the opening reception (evening of Friday, July 6), morning and afternoon coffee breaks (July 7 - 10), three lunches (July 7 - 9; lunch on July 10 is not included), two evening poster sessions (July 7 and 9), wireless access throughout the OCC, and attendance to all concurrent sessions and symposia. Please note: in the interest of reducing waste, no conference bag will be provided. Your name badge is your entrance ticket to all of these events: **please wear it.**

Registration & information desk hours:

| | |
|------------------|--------------------|
| Friday, July 6 | 1:00 pm - 10:00 pm |
| Saturday, July 7 | 7:30 am - 5:00 pm |
| Sunday, July 8 | 7:30 am - 5:00 pm |
| Monday, July 9 | 7:30 am - 5:00 pm |
| Tuesday, July 10 | 7:30 am - 4:30 pm |

Presentations

Oral presentations will be held (forcibly) to 14 min, including questions, permitting a one minute movement and switch-over time between talks. **You will be cut off if you go over time.** The AV system is PC-based and will support both PowerPoint (all versions) and PDF files. Unfortunately, we can't support Keynote presentations. A PowerPoint presentation created on a Mac should be acceptable, but it is strongly recommended that you test it on a PC first. Talks should be uploaded **at least 24 h before your presentation.** Instructions on uploading presentations online will be emailed to every speaker prior to the meeting. During the meeting, the online system will be closed and talk must be uploaded in person in the Speaker Ready Room (OCC, Rm. 101). This room is also available to test your presentation, with technical support present, and you are strongly encouraged to do so at least 4 h before your talk. The computers in this room are of the exact same hardware and software configuration as those being used in the session rooms.

Session chairs

Chairs should arrive at the session 15 min early to ensure that all speakers are present and confirm that they have already uploaded their talks. Speakers should be reminded that talks are 14 min, including questions. The timing of presentations is controlled centrally; Chairs need only introduce each speaker and then alert them when 3 min remain (i.e. at 11 min) and, if necessary, when 1 min remains (i.e. at the 13 min mark). In the event of an AV problem, roving technicians can be contacted by Chairs using the wall panel located in each room (select 'phone' and then dial 400 or 656 and ask for TelAv). In the event of a cancellation, the Chair should announce a pause so that the talks remain on schedule.

Posters

Posters should be a maximum of 1.2 m x 1.2 m (4 ft x 4 ft). Poster presenters will be assigned to one of two evening poster sessions (7:30 - 10:30 pm on Saturday, July 7 or Monday, July 9). Presenters will be responsible for setting up, and taking down, their own posters; Pushpins will be provided. Posters in Session #1 should be put up on Saturday morning and taken down on Sunday morning. Posters for Session #2 should be put up on Sunday afternoon and taken down on Tuesday morning. Both poster sessions will be held in the evening in conjunction with social mixers that include snacks, beer, wine and non-alcoholic beverages.

Congress farewell dinner party

In lieu of the traditional conference banquet, and more in line with ESEB/CSEE tradition, we will be hosting a less formal farewell dinner party on Tuesday, July 10, starting at 6:30 pm, at the spectacular Canadian Museum of Civilization. As opposed to a sit-down meal, food and drinks will be available throughout the evening. The Museum will be closed to the public but open for registrants to visit, and there will be music, dancing, good food, lots to drink, and no speeches.

A ticket is required (a limited number may be available for purchase from the registration desk early in the meeting). Free busses will loop continuously between the OCC, the Marriott Hotel, and the Museum, from 6:00 pm - 1:00 am. Alternatively, it's a beautiful walk of approximately 25 min across the Ottawa River. Volunteer guides will be leaving from the OCC at 6:15 and 6:45 pm for those interested.

Childcare

Daycare will be offered during the main congress (July 7-10) onsite at the OCC. Signup occurred during meeting registration and closed on May 25. Rates are \$30 CDN (faculty) / \$20 CDN (student/pdf) per half-day/child. The service is provided by experienced Child Care Educators from the Ottawa area. Children ages 6 months to 12 years are welcome. All staff have provided on-site care at other conferences and will adhere to the ratios and regulations set out in the Ontario Day Nurseries Act. Childcare staff speak French and English. The on-site Child Care Coordinator will contact registrants prior to the Congress to answer any questions that they might have. Childcare costs are subsidized in part from a generous grant from Oxford University Press:



Language

Given the unique nature of this joint congress, English will be the official working language. Many of the congress staff are bilingual and will be on hand to assist French-speaking members.

Message board

A message board will be located near the Registration & Information desk. Registrants are welcome to post notices about events, jobs, announcements, and messages for other attendees.

Exhibitor hours

Exhibitor booths are located in the Parliament Foyer (level 3) of the OCC. Exhibitor hours are:

| | |
|------------------|--|
| Saturday, July 7 | 8:00 am - 5:00 pm & 7:30 pm - 10:00 pm |
| Sunday, July 8 | 8:00 am - 5:00 pm |
| Monday, July 9 | 8:00 am - 5:00 pm & 7:30 pm - 10:00 pm |
| Tuesday, July 10 | 8:00 am - 1:00 pm |

Internet access

Wireless access is provided to participants free of charge (network: **Evolution**; case-sensitive password: **Canada**), sponsored in part by BioMed Central, an open access publisher committed to the free widespread dissemination of scientific research. If you cannot join the network, it means the system is at capacity. Please be patient and try again later.

Electronic devices

Please turn off or mute all electronic devices in all concurrent sessions.

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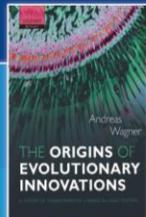
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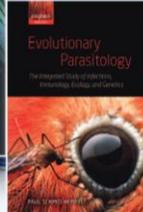


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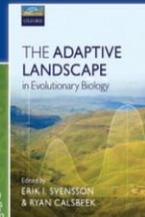
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Transportation & parking

Detailed transportation information is available on the congress website (www.evolution2012.org).

From the Ottawa International Airport (YOW) to the hotels or residences

You can either travel by taxi (~\$29 CDN one way depending on traffic and the particular hotel) or by public transportation (Route 97 to downtown Ottawa departs from pillar 14 outside the Level 1 Arrivals area; bus tickets are available at the Ground Transportation Desk located on Level 1 at the central door of the Arrivals area). Various car rental companies are also located within the airport.

Getting around Ottawa

The hotels, the residences, and the OCC are all within walking distance of one another. The more distant hotels also offer a morning shuttle service to the OCC. Ottawa is a very safe city, although common sense should always prevail (e.g., walk in groups at night). Vehicles can be parked at the hotels/uOttawa residences for a fee. A less expensive option can be pre-booked at the uOttawa Lees Ave. satellite campus (~15 min walk from the residences). Consult the congress website for more information.

Public Transit is easy to access. To view and plan transit routes, visit www.OCTranspo.com. The one-way fare is \$3.30 (exact change) or two bus tickets. Bus tickets can be bought from local convenience stores displaying OC Transpo sticker/sign for \$1.50 each. Day passes with unlimited travel can be purchased for \$7.75 each.

Taxi rates are regulated and generally not negotiable. Pre-bookings can be made with sufficient notice. Rates include taxes but not gratuity (approx. 15% standard). The two biggest taxi companies are Blue Line: 613-238-1111 and Capital Taxi: 613-744-3333.

Ottawa is a great city for cyclists with over 170 km of bike paths, many of them along our scenic rivers and canals. It's also easy to cycle on some roads that feature special bike lanes. Bixi, a public bicycle sharing system, is also available in Ottawa (capital.bixi.com).

Money

Canada's currency is based on the decimal system, with 100 cents to the dollar. You can exchange your currency for Canadian dollars at authorized currency exchange counters in Ottawa and at the airport. You can also exchange currency at banks, credit unions and trust companies throughout Ottawa. Banking hours vary, with most open Monday to Friday from 10 am - 4 pm, and some open 8 am - 8 pm and on Saturdays. Banks are closed on federal public holidays. Automated banking machines and debit (e.g. Interac, Cirrus, and Plus) services are widely available. The majority of stores, restaurants and accommodations accept major credit cards, including Visa, MasterCard, and American Express, as well as debit (i.e. bank) cards.

The Ontario Harmonized Sales Tax (HST) is added at a single rate of 13% to almost all purchases and is generally not included in the listed price. In Canadian restaurants, it is customary to tip approximately 15% on the total bill before taxes, although many restaurants charge an automatic gratuity for larger groups. Tipping is also customary for other services including taxi, valet, hairdressers, etc.

First aid & emergencies

A large pharmacy (Shoppers Drug Mart) can be found on Level 1 of the Rideau Centre shopping mall which is attached to the OCC via a walkway on the 2nd floor.

Call 911 in an emergency for fire/police/ambulance.

To contact an attendee during congress hours (emergencies only), call the Registration & Information Desk at +1 613-558-1294.



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The Stephen Jay Gould Prize is awarded annually by the SSE to recognize individuals whose sustained and exemplary efforts have advanced public understanding of evolutionary science and its importance in biology, education, and everyday life in the spirit of Stephen Jay Gould. The winner of the 2012 Stephen Jay Gould Prize is David Quammen. Mr. Quammen is a prize-winning author who has done much as a science writer and journalist to advance understanding in the public of evolutionary biology. His 1996 book, *The Song of the Dodo*, artfully portrays the history of the field of evolutionary biology, including the efforts of Darwin and Wallace, as well as contemporary scientists such as E.O. Wilson, Dan Simberloff, and Ted Case. For the past 30 years, he has introduced readers to evolutionary ideas and other wonders of nature. His most widely read piece was the Nov., 2004, cover story in *National Geographic*, "Was Darwin Wrong?" that was awarded the National Magazine Award.

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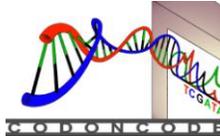
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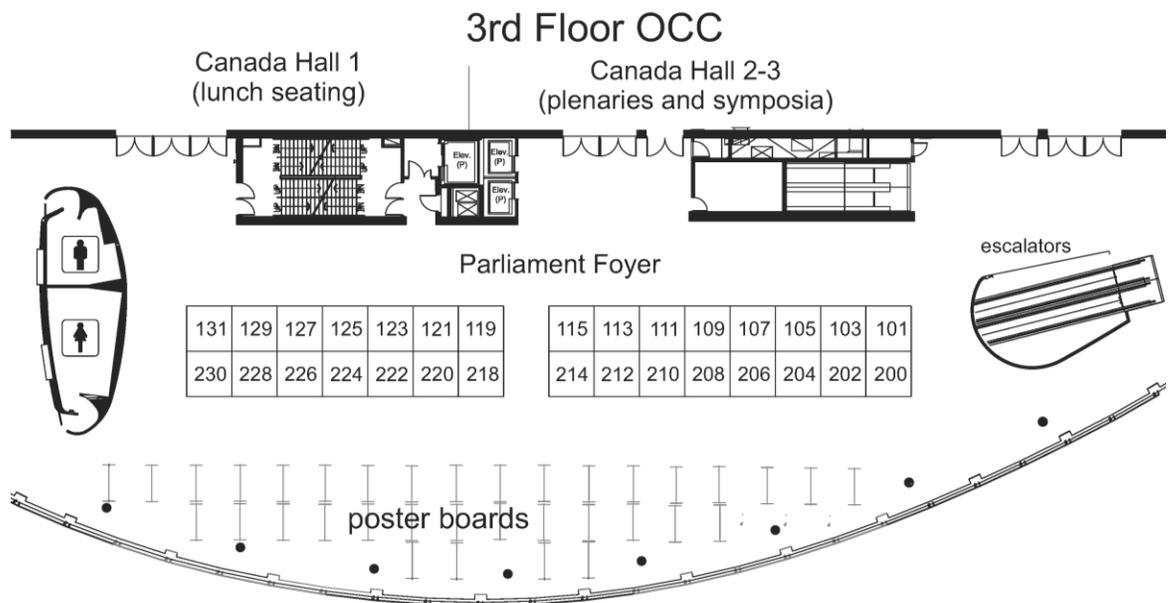
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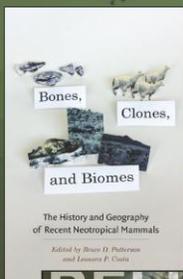
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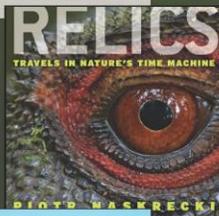
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| | | The International Biogeography Society | 228 -230 |



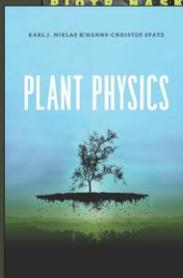
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Dining in Ottawa

Below is a select list of establishments, sorted by neighbourhood (see map on back cover or the program-at-a-glance), graciously provided by Bill Hughes and Mary Compton (Carleton U).

Additional suggestions and discussion of local dining can be found on our congress blog (evolution2012ottawa.com/wordpress); a clearing house for Ottawa food bloggers can be found here: www.foodieprints.com/?special=Ottawafoodsites

\$: under \$10

\$\$\$: \$15-25 per entrée

\$\$: \$10-15 per entrée

\$\$\$\$: \$25+ per entrée

Centretown (Southwest of OCC)

| | | |
|---|------|---|
| Ada's Diner 510 Bank Street | \$ | Located in south Centertown, this is the beloved local greasy spoon. |
| Bread and Sons 195 Bank Street | \$ | An absurd 97% rating on Urbanspoon shows this for what it is – Ottawa's best bakery. They sell baked goods, sandwiches, pizza & coffee. |
| Bridgehead 344 Slater, 109 & 366 Bank, 96 Sparks | \$ | Ottawa's own organic, single-estate café – many locations throughout the downtown. Most should have excellent bar drinks. |
| Café Delice 197 Kent Street | \$ | Using Intelligensia-brand espresso, this small café has tasty sandwiches and well-trained baristas. |
| Starbucks Coffee; 81 Metcalfe, 124 O'Connor, 129 Bank | \$ | Over-extracted coffee, foamed-up lattes – the world-famous chain has many locations in downtown Ottawa |
| Vie Bella Market and Deli 87 Sparks Street | \$ | Inexpensive and tasty, Vie Bella caters to people looking for a business lunch on Sparks. Watch out for the rush from 12-1 pm. |
| 222 Lyon Tapas 222 Lyon Street | \$\$ | A small, intimate Tapas restaurant with a variety of excellent small plates. |
| Brixton's Pub 210 Sparks | \$\$ | Tired décor but still cool, Brixton's has a great selection of cocktails and draught beers. |
| Caffe Zuccherò 340 Queen Street | \$\$ | Open during the day, this café has a good selection of treats to go along with its above-average bar drinks. |
| C'est Japon a Suisha 208 Slater Street | \$\$ | Japanese food that is reputed to be among the city's best. |
| Cock and Lion 202 Sparks | \$\$ | Pool hall and pub. Live sports. |
| Coriander Thai 282 Kent Street | \$\$ | Perennially nominated for Ottawa's best Pad Thai. |
| D'Arcy McGee's 44 Sparks Street | \$\$ | Notable more for its history than for the food, watch out for members of parliament. |
| East India Company 210 Somerset St W | \$\$ | OK Indian food – this is Ottawa's location of the well-known chain. |
| Gabriel Pizza 277 Bank Street | \$\$ | Ottawa's chain of local pizzerias. 310-7777 for delivery or takeout. |

| | | |
|---|----------|---|
| Genji 175 Lisgar Street | \$\$ | Japanese restaurant featuring a variety of in-house sushi |
| Grounded 100 Gloucester Street | \$\$ | A new coffeehouse with a surprisingly tasty and varied lunch menu. |
| Scone Witch 388 Albert Street | \$\$ | On-site bakery featuring a variety of scones. Good for high tea or lunch. |
| Som Tum 260 Nepean Street | \$\$ | Ottawa's best choice for Vietnamese and Thai soups. Excellent variety. |
| Talay Thai 511 Bank Street | \$\$ | Spicy Thai cuisine in south Centertown |
| The Whalesbone Oyster House 430 Bank Street | \$\$ | Excellent seafood - sustainably caught & fresh. They supply most Ottawa's restaurants with seafood through their import business. |
| A'Roma Meze Small Plates 239 Nepean Street | \$\$\$ | An interesting fusion of Mediterranean flavours, and most food is cooked by the owners. |
| Atomic Rooster 303 Bank Street | \$\$\$ | A local pub offering good pub food for a great price. Paintings (for sale) cover most of the walls. |
| Café Paradiso 199 Bank Street | \$\$\$ | The live jazz is a definite draw - check out what's playing before you arrive. |
| Carribbean Sizzler 133 Bank Street | \$\$\$ | Surprisingly empty most of the time, but the Caribbean flavours are terrific, even if the décor is not. |
| Eggspectation 171 Bank Street | \$\$\$ | They offer some lunch and supper menu items, but have a wide array of breakfasts. The coffee is sub-par. |
| Imperial Food and Beverage 329 Bank Street | \$\$\$ | A pub located right next to the Babylon Nightclub and Barrymore's Music Hall. It's a great choice for a hearty brunch. |
| Mamma Theresa 300 Somerset St W | \$\$\$ | Mamma Theresa's is located in an old Victorian house. The food is equally traditional, but very satisfying and fresh. |
| Royal Oak 188 & 318 Bank St, 180 Kent St | \$\$\$ | The Royal Oaks offer a good selection of draught beers and most boast comfy patios, but the chain offers bog-standard food. |
| Southern Cross 402 Queen Street | \$\$\$ | Conveniently near the Radisson hotel. |
| Spin Kitchen 100 Kent Street | \$\$\$ | Affiliated with the Marriott, this is a decent hotel restaurant. A tad pricey. |
| Thai Gardens 246 Queen Street | \$\$\$ | Expensive but fresh, this Thai restaurant is close to many hotels. |
| The Buzz 374 Bank Street | \$\$\$ | Hip but small, The Buzz offers tasty locavore cuisine, cocktails and a renowned Sunday Brunch |
| 360 Steakhouse 407 Laurier Ave W | \$\$\$\$ | This steakhouse is expensive, but they can cook to perfection just about any part of the cow you can name. Lots of choice. |
| ARC Dining Lounge 140 Slater Street | \$\$\$\$ | Attached to the chic hotel of the same name, this kitchen offers tasty, cool food. |
| Bekta Dining and Wine 226 Nepean Street | \$\$\$\$ | Superb fine dining lounge offering a seasonal 5-course menu. |
| Merlot Rooftop Grill 100 Kent Street (29th Floor) | \$\$\$\$ | A fairly good steakhouse at an odd location - many posh bureaucrats frequent this restaurant. |

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visit www.nescent.org

The Triangle/Elgin St. (South of OCC)

| | | |
|---|------|---|
| Bridgehead 282 Elgin Street | \$ | Ottawa's own organic, single-estate café - many locations throughout the downtown. Most have excellent bar drinks. |
| Fettucciné's 280 Elgin Street | \$ | Pastas and sauces made fresh daily on premises. Try for lunch or dinner. |
| Green Tea 280 Elgin Street | \$ | A cute, little Vietnamese/Japanese sushi & noodle bar. Sit by the window & enjoy some bubble tea, dumplings or pho (noodle soup) |
| Hooley's 292 Elgin Street | \$ | Pub food at an affordable price. Open late night with live entertainment. |
| Maroush 380 Elgin Street | \$ | Authentic Lebanese shawarma, falafel, sides & deserts. Ask to hear the 'Maroush Song'. Late on weekends. Try the Bazooka Shawarma! |
| Pure 350 Elgin Street | \$ | Over 20 flavours of gelato offered daily made fresh on premises. Try the Nutella gelato crêpe! |
| McDonalds, Harvey's Wendy's, Pizza Pizza, Subway & Quiznos | \$ | Arrayed along 200-252 Elgin Street No comment. |
| Dunn's 220 Elgin Street | \$\$ | A casual eatery featuring Montreal's famous smoked meat sandwiches. Affordable breakfast served daily. |
| Fox and Feather Pub 283 Elgin Street | \$\$ | Sit in the restaurant, at the bar or the upstairs patio & enjoy the classic pub-food menu including a range of beers, wines & cocktails |

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|---|----------|---|
| Lemon Grass 331 Elgin Street | \$\$ | Authentic Bangkok-style Thai food at its best. Curries, soups, salads, pork, chicken, fried noodles, etc. Enjoy for lunch or dinner. |
| Lieutenants Pump Pub 361 Elgin Street | \$\$ | Classic pub-food menu with a wide range of beer & wines. Vegan & gluten-free friendly menu available. Open late. Free Wi-Fi. |
| MaLaren's on Elgin 301 Elgin Street | \$\$ | A unique pool hall/sports bar that offers classic pub food and a range of beers, wines and cocktails. Happy hour and late night. |
| Mayflower Restaurant and Pub 247 Elgin Street | \$\$ | A charming little restaurant that considered an Ottawa institution. Enjoy the pub food while sitting indoors or on the patio. |
| Pancho Villa 361 Elgin Street | \$\$ | Mexican at its best. Fajitas, burritos, enchiladas, taco salad & delicious combinations plates. Sit on their patio & enjoy a Sangria! |
| Sir John A Pub 284 Elgin Street | \$\$ | A popular pub with the locals. Enjoy the classic pub-food, beers wines & cocktails. Patio seating available, free Wi-Fi and open late. |
| St. Louis Bar and Grill 399 Elgin Street | \$\$ | Enjoy sitting inside or outside on a large patio (live entertainment). A wide-range of chicken wings & other pub food. Free Wi-Fi; open late. |
| Standard Tavern 360 Elgin Street | \$\$ | A great place to sit by the large, open windows & enjoy a burger, pizza or other classic dish and a featured cocktail. Open late, live DJ |
| Woody's Elgin Street Urban Pub 330 Elgin Street | \$\$ | Offers classic pub food, an outdoor patio, large, open windows. |
| Elgin Street Diner 374 Elgin Street | \$\$ | Ottawa's famous greasy spoon diner. Most popular for the poutine (try the Montreal smoked meat) & all-day breakfasts. Open 24 h. |
| Izakaya 338 Elgin Street | \$\$\$ | New to Elgin Street, Izakaya mixes Thai, Vietnamese, Japanese and other flavours and dishes; shared plates large and small. |
| Fresco Bistro Italiano 354 Elgin Street | \$\$\$ | This quiet and intimate Italian bistro offers a wide-range of Italian classics and wine pairings. Offers gluten-free pastas. |
| Johnny Farina 216 Elgin Street | \$\$\$ | A casual eatery with a wide range of Italian dishes, beers, wines & cocktails. Large removable windows for a patio-seating feel. |
| Maxwell's Bistro 340 Elgin Street | \$\$\$ | This bistro offers international, pizzas, tapas, seafood & delicious wine pairings. Sit by the large removable windows & enjoy the artwork . |
| Oriental House 266 Elgin Street | \$\$\$ | Fresh and healthy Chinese food. MSG free. Try the daily buffet. |
| Oz Kafé 6-361 Elgin Street | \$\$\$ | A café owned by Oz herself. Enjoy seafood, Italian & international dishes. Stay late & enjoy the beats from the in-house DJ |
| The Manx 370 Elgin Street | \$\$\$ | This trendy little spot offers a wide range of beers & a delicious menu of unique & generous dishes. Vegetarian-friendly. |
| Town 296 Elgin Street | \$\$\$ | A very popular, trendy spot for unique concept dishes. Gluten-free & vegan friendly. Open for dinner Tues-Sun, lunch Wed-Fri. |
| Al's Steakhouse 327 Elgin Street | \$\$\$\$ | A classy, comfortable steakhouse right on Elgin Street. Seating by large removable windows for patio seating-feel. |
| Le Café 53 Elgin Street | \$\$\$\$ | Sit right on the canal and watch the boats go by. Offers a gluten-free friendly menu and world class dining |

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Rideau Centre/Rideau Street (East of OCC)

| | | |
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| Starbucks Coffee Rideau Centre, 47 Rideau Street | \$ | Over-extracted coffee, foamed-up lattes - the world-famous chain has many locations in downtown Ottawa |
| Shawarma Palace 464 Rideau Street | \$ | Hungry? Love garlic? Try a shawarma - a homage to Ottawa's Lebanese community. |
| Castle Shawarma 178 Rideau Street | \$ | See above. |
| Second Cup 171 Rideau Street | \$ | Canada's answer to Starbucks. Good selection of cakes and treats. |
| A & W Rideau Centre | \$ | Fast-food outlet in the Rideau Centre food court |
| Thai Express Rideau Centre | \$ | Fast-food outlet in the Rideau Centre food court |
| New York Fries Rideau Centre | \$ | Fast-food outlet in the Rideau Centre food court |
| Subway Rideau Centre | \$ | Fast-food outlet in the Rideau Centre food court |
| Jimmy the Greek Rideau Centre | \$ | Fast-food outlet in the Rideau Centre food court |
| Passage to India 544 Rideau Street | \$ | Great Indian food at a low price. |
| Habesha 574 Rideau Street | \$\$ | Try a dish at what is reputed to be the city's best African restaurant. |
| Highlander Pub 115 Rideau Street | \$\$ | Possibly Ottawa's best selection of scotches. Try to show up at 8 pm, when there is sometimes a round of scotch on the house. |
| Gabriel Pizza 175 Rideau Street | \$\$ | Ottawa's chain of local pizzerias. 310-7777 for delivery or takeout. |
| Cora's 179 Rideau Street | \$\$ | French-Canadian chain of breakfast-only restaurants. Fresh and tasty. |
| Exchange Pub Rideau Centre | \$\$ | Simple chain pub in the Rideau Centre, near the food court |
| Santé 45 Rideau Street | \$\$\$ | A great option for vegetarians, located next to the Rideau Centre. |
| Wilfred's Restaurant 1 Rideau Street | \$\$\$\$ | Main dining room at the Chateau Laurier. Delicious but very expensive. Dress well. |

ByWard Market (North of OCC)

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| Bridgehead 224 Dalhousie Street | \$ | Ottawa's own organic, single-estate café - many locations throughout the downtown. Most should have excellent bar drinks. |
| Burrito Borracho 105A Clarence Street | \$ | Made-to-order tacos, burritos & other Mexican specialties. Servings are large and delicious. A must for a quick and delicious meal. |
| Cupcake Lounge 6 ByWard Market | \$ | Come & try one of the most delicious cupcakes you will ever taste. Daily specials, tea, coffee and ice cream. Try the Key Lime Cupcake! |
| Oh So Good! 25 York Street | \$ | Try a slice of their many cakes with a latté or cappuccino while you enjoy the market's atmosphere & the art decorating their walls. |
| Piccolo Grande 55 Murray street | \$ | Try one of over 20 flavours of gelato ice-cream made with only the freshest ingredients. Coffee, chocolates and lunch also available. |
| The Sausage Kitchen 5 ByWard Market | \$ | If you enjoy street meat, try the sausage kitchen for delicious 100% all-natural sausages and fresh smoked meats. Open every day. |
| Wontonmama 109 Clarence Street | \$ | Fast & friendly service offering different dishes from China, Thailand, Vietnam & Japan. Simple and healthy. |
| Ahora 307 Dalhousie Street | \$\$ | Authentic Mexican food in a cozy atmosphere. This place offers great Mexican food, at a great price. Made to order. |
| Café Indochine 105 Clarence Street | \$\$ | A Vietnamese treat. Come try the pho and a viet-iced coffee! |
| Chez Lucien 137 Murray Street | \$\$ | Almost impossible to get a seat, but a great French-Canadian pub food at low prices will do that... |
| Clocktower Brew Pub 89 Clarence Street | \$\$ | Try a locally-brewed seasonal or regular beer with wings, or other delicious dishes on the street-side patio, or their private patio. |
| Fatboys Southern Smokehouse 34 Murray Street | \$\$ | Southern bbq dishes including beef brisket, pulled pork, 'the Kentucky Trio', & sandwiches. Live music & late night (Fri & Sat) |
| Hokkaido Sushi 272 Dalhousie | \$\$ | An all-you-can-eat sushi buffet. |
| Khao Thai 103 Murray Street | \$\$ | Delicious and authentic Thai food and a classy atmosphere with diligent service. Try for lunch (Monday-Friday) or for dinner any day. |
| Melo's 290 Dalhousie Street | \$\$ | A cozy diner where you can watch your meal being freshly prepared in front of you. Come for breakfast, lunch & dinner! |
| Memories Restaurant & Bakery 7 Clarence Street | \$\$ | This little café is great to come for a quick sandwich and coffee or desserts after a dinner. Try the Triple Berry Pie! |
| Patty Bolands 101 Clarence Street | \$\$ | Classic pub food. Sit indoors by the large wood-fire or outdoors & enjoy the live music. Gluten-free dishes, free Wi-Fi. Open late-night. |
| Royal Thai Restaurant 313 Dalhousie Street | \$\$ | Delicious & authentic Thai food with speedy service. Try an individual noodle or rice dish, or share the family-style dishes. |
| Saigon 85 Clarence Street | \$\$ | Excellent service and delicious authentic Vietnamese stir fry with fresh veggies. Try the deep-fried banana! |
| Shafali Restaurant 308 Dalhousie Street | \$\$ | Try a wide-variety of delicious and rich Indian foods, including desserts! |
| Sushi Fresh 55 York Street | \$\$ | Try some fresh sushi. Delivery available. |

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| Sweet Art 309 Dalhousie Street | \$\$ | If you are in the mood for some great Vietnamese pho (noodle soup) & spring rolls. Gluten-free friendly dishes available. |
| Zak's Diner 14 ByWard Market | \$\$ | The market's famous greasy spoon diner offering all-day breakfast and a range of diner classics. Open late night. |
| Blue Cactus Bar and Grill 2 ByWard Market | \$\$\$ | Try delicious mains from Chicken Chimichanga to a Philly-Steak Sandwich. Famous "Cactus-Size" margaritas & cocktails. Open late. |
| Café Mezzonotte 50 Murray Street | \$\$\$ | Italian classics with a trendy atmosphere Great wine and seafood selection as well. Live deejay after 9 pm. |
| Coaster's Gourmet Grill 45 York Street | \$\$\$ | From smoked-chicken poutine to fish tacos to lobster grilled cheese. Offers gluten-free, vegan-friendly dishes. |
| Cornerstone Bar and Grill 92 Clarence Street | \$\$\$ | A popular patio/open concept restaurant & bar with classy-twists on pub food. Try the deep fried Snickers bar! |
| Fat Tuesday's 62 York Street | \$\$\$ | An homage to Mardi Gras & New Orleans. Cajun food, fun atmosphere & live dueling pianos! Have your palm read. Open late. |
| Fish Market Restaurant 54 York Street | \$\$\$ | Great service with amazing fresh seafood dishes all paired with great sauces. |
| Hard Rock Café 73 York Street | \$\$\$ | The world-famous franchise is in Ottawa too! Come by for burgers, live music and late night food and drinks. |
| Heart and Crown 67 Clarence Street | \$\$\$ | An Ottawa-must. A large venue featuring several indoor & outdoor seating & bar areas. Pub food classics, late night live entertainment. |
| Lapoint Seafood Grill 55 York Street | \$\$\$ | Starting as a fish retail store in the Market in 1867, a must for seafood! Come for a classic fish & chips, salmon or daily-made sushi. |
| Luxe Bistro 47 York Street | \$\$\$ | Try the chef's special or come by for a classy-drink! |
| Manjia 121 Clarence Street | \$\$\$ | Delicious Italian meals for dinner & panini for lunch. Sit by the large, open windows & people watch. |
| Murray Street 110 Murray Street | \$\$\$ | Using locally-grown, aims to epitomize 'Canadian comfort'. Many dishes are maple-soaked, wood-smoked, or cheese-curd topped! |
| Play 1 York Street | \$\$\$ | A concept-kitchen with a delicious menu and a great atmosphere. Vegan-friendly. Open late. Try the Oatmeal Cake with Figs! |
| Sidedoor Contemporary Kitchen and Bar; 18 York Street | \$\$\$ | A modern, trendy spot in one of the Market's courtyards. Unique cocktails & a variety of choices. Try ANY of their tacos! |
| Steak Modern Steakhouse Lounge 87 Clarence Street | \$\$\$ | A steakhouse with a lovely, comfortable patio to sit at street side or private. Also offers burgers, breakfast/brunch and vegan-friendly dishes. Open late-night, free Wi-Fi. |
| Stella Osteria 81-B Clarence Street | \$\$\$ | An excellent patio to sit and enjoy italian dishes, or just drinks and dessert. Also open for breakfast on weekends. |
| The Black Thorn Café 15 Clarence Street | \$\$\$ | A hidden gem. Come for a pizza, burger, or just a pint! Gluten-free friendly. Live music and open late night. Free Wi-Fi. |
| The Brig Eatery and Pub 23 York Street | \$\$\$ | A modern pub with a great atmosphere & location. The menu offers a range from seafood dishes to classic pub dishes. Free Wi-Fi. |
| The Keg Steakhouse and Bar 75 York Street | \$\$\$ | Enjoy steakhouse classics on the patio, or inside. Offers a gluten-free menu. Open late-night. |
| Tucker's Market Place 61 York Street | \$\$\$ | A colourful all-you-can-eat-buffet including salads, made-to-order pastas, roast beef, etc. |

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| Vineyard's 54 York Street | \$\$\$ | Home of the \$12 fries with side order or sirloin steak & Caesar. Variety of beer & wines, knowledgeable staff to aid in pairing. |
| Vittoria Trattoria 35 William Street | \$\$\$ | Open for breakfast/brunch, lunch and dinner. Regular, or group menu to choose from with seasonal wine list for pairings. |
| Wasabi 41 Clarence Street | \$\$\$ | Recommended for someone looking to eat great sushi or Japanese-style seafood dishes. Try a "Bento Box" for a starter! |
| Kinki 41 York Street | \$\$\$\$ | A cool place for sushi and cocktails. |
| Mambo Restaurante Nuevo Latino; 77 Clarence Street | \$\$\$\$ | Latin-American cuisine that includes seafood, tapas, and a wide range of delicious deserts. Eat on the street-side or roof-top patio. |
| Moji 97 Clarence Street | \$\$\$\$ | A cozy little place to try some authentic seafood, pasta and antipasto Italian dishes. |
| Restaurant Eighteen 18 York Street | \$\$\$\$ | A gorgeous restaurant with a well-rounded menu including meat, fish & even gluten-free dishes. Happy hour, open late, free Wi-Fi. |
| The Empire Grill 47 Clarence Street | \$\$\$\$ | A very classy steakhouse with a great selection: Alberta Bison Rib Eye, deserts & wines. Also open for breakfast/brunch Sat & Sun. |

Heredity



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Cobus Meyer Visagie, University of Stellenbosch, South Africa

Congress tours & excursions

These are booked separately from congress registration, as outlined below. Additional details can be found on the congress website (www.evolution2012.org).

1) *Queen's University Biological Station Tour/Hike*

Friday, July 6, 10:30 am - 5:00 pm

Encompassing over 3000 hectares, the Queen's University Biological Station is one of the premier university field stations in Canada. The station lies on the Frontenac Arch, a southward extension of the ancient Cambrian rock of the Canadian Shield that links northern and southern ecosystems. Biodiversity housed there includes 32 species of amphibians and reptiles, at least 30 fish taxa, over 100 species of breeding birds, 55 mammal species, and a myriad flowering plants, lichens, fungi, and invertebrates. We will depart at 10:30 am, have lunch at QUBS, go for a 2-3 hour nature hike, and depart by 3:30 to be back in Ottawa at ~5:00 pm. Maximum cost is \$30/person, depending on number of registrants. Email Gabriel Blouin-Demers (gblouin@uottawa.ca) or Stephen Lougheed (steve.lougheed@queensu.ca) to reserve a spot.

2) *Canada through its art*

Wednesday, July 11 @ 10:00 am (meet at 9:45)

The only way to travel across Canada in one day is through the largest collection of Canadian art in the world.

Come for a 1.5-2 hour tour of the permanent collection at the National Gallery of Canada. The tour will highlight how landscape painters have interpreted the country since European settlement, from Krieghoff, the Group of Seven, Carr, Colville to the contemporary. Meet your tour guide at 9:45 am under "Maman" (the big spider) in front of the NGC, 380 Sussex Drive. Price of admission: \$7-\$9, depending on final numbers. Please contact Frances Pick to sign up (frpick@uottawa.ca)

3) *Whitewater rafting on the Ottawa River*

Wednesday July 11, 7:00 am - 6:00 pm

Enjoy an action-packed summer day on the beautiful Ottawa River, famous for its wilderness, historical significance, and high volume rapids. We will be rafting with Esprit, a world class outfitter. No prior experience required. Additional details on www.evolution2012.org.

4) *The Canadian Museum of Nature Research Collections*

With more than 10 million specimens gathered over more than 150 years and covering four billion years of Earth's history, the 24 major science collections of the Museum represent botany, vertebrates, invertebrates and the earth sciences. If you are interested in visiting the collections for research purposes, contact Julian Starr (Julian.Starr@uottawa.ca).

5) *Group bicycle rides*

There's no better way to enjoy the National Capitol Region than on a bicycle. Join Jacob Pollack (jacobnpollack@gmail.com) and others:

- on Friday, July 6 for a short (6-10 km) ride to experience the Ottawa waterfront and famous recreational pathways;
- on Wednesday, July 11 for a more challenging (15-25 km) ride across the Ottawa river and into beautiful Gatineau Park;
- or both!

We will adjust our route according to the desires of participants. If interested, simply show up at 9:45 a.m. at Rent-a-bike's location at 2 Rideau St. (Rideau St. & Colonel By Dr. @ the Plaza Bridge, East Arch). Should you have questions, contact Jacob Pollack (jacobnpollack@gmail.com); cell/mobile: 613-600-6546.

Things to do in Ottawa

Some ideas for self-organized excursions:

- Ottawa Bluesfest (July 4 - 15); ottawabluesfest.ca
A multi-staged, 12-day music showcase featuring some of the best talent on the planet, Bluesfest is a landmark event of the Ottawa summer and has been rated as one of the top-ten music festivals in the world according to Billboard Magazine.
- Rent (hire) a bicycle
Take full advantage of the recreational pathways and attractions around Ottawa. Rent-a-bike is conveniently located close to the OCC at the Plaza Bridge (Rideau St @ Colonel By Dr.), or subscribe to Capital Bixi, a public bike system that is accessible 24/7!
- Mill Street Brew Pub (ottawa.millstreetbrewpub.ca)
Join fellow congress attendees for a fun night at the Mill Street Brew Pub. Begin with a free tour of the brewery, available daily at 5 and 5:30 pm. Tours are on a first-come, first-served basis. Maximum capacity is 15 people/tour.
- Hike in Gatineau Park
(www.canadascapital.gc.ca/places-to-visit/gatineau-park)
Gatineau Park (363 km²) is a wild area containing hundreds of kilometers of hiking and cycling trails as well as an historic estate bequeathed by the 10th Prime Minister of Canada, W.L. Mackenzie King. It is a 15 min drive from Parliament Hill.
- Kayak or raft on the Ottawa River with Wilderness Tours
Book a "High Adventure" or "Gentle" rafting program to fit your own itinerary at reduced rates, and enjoy WT's resort and beach. A 10% discount is available to congress attendees at www.wildernesstours.com/evolutionottawa

- Visit Mer Bleue Conservation Area (www.canadascapital.gc.ca/places-to-visit/greenbelt/mer-bleue)
A rare example of a sphagnum bog wetland ecosystem. This 7,700-year-old bog provides habitat to many species of regionally rare and significant plants, birds and other wildlife. It also supports plants and wildlife populations that are typical of northern boreal bogs.
- Sightseeing on Paul's Boat Lines (www.paulsboatcruises.com/about.htm)
A cruise in the Ottawa River and through the locks of the historic Rideau Canal is a great way to see the National Capital Region.
- Mosaika: Sound and light show (daily from July 6 - Sept. 3, 10:00 pm, Parliament Hill)
The story of Canada – a powerful narrative set against the spectacular backdrop of Parliament Hill. The show takes the audience on an unforgettable journey of sound and light, as one explores Canada's physical, historical and cultural landscapes.
- Extend your visit by exploring some of Ontario's vast wilderness by foot or canoe, or visit its wine country, historic villages, or other attractions. Consult www.ontariotourism.com for more information.

Presentation awards

- *CSEE student award competition*. A competition for the best talks and posters by CSEE students. Prizes of \$500, \$300 and \$200 will be awarded for 1st, 2nd and 3rd place for each presentation type. Entries were accepted during early registration. Consult the CSSE website for more details.
- *Ernst Mayr award*. Given to the presenter of the best student talk in the field of systematics. This is SSB's premier award and is judged by the quality and creativity of the research over the course of a PhD. The award consists of \$1,000, a certificate of distinction, and a two-year subscription to *Systematic Biology*. Applications were accepted during early registration. Selected candidates will present in the *Mayr symposium* from 8:30 am - noon on Sunday, July 8. The winner will present a longer version of their talk during the *Joint Awards Symposium* on Tuesday, July 10 @ 9:30 am. For more details, consult the SSB website.
- *W. D. Hamilton Award*. Given to the SSE student who presents an outstanding talk, as judged by a committee of SSE members. Applicants will give their talk during regular contributed sessions, as appropriate for their topic. The winner receives \$1,000 and a one-year membership to the SSE (including a one-year subscription to *Evolution*). Up to two Honorable Mentions will each receive a one-year membership to the SSE (including a subscription to *Evolution*). Consult the SSE website for more details.

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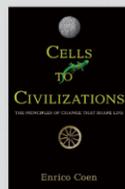
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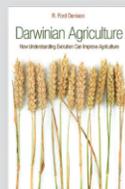
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Travel support

Support to attend the meeting was available from various sources. Application deadlines for all these grants have now passed.

Undergraduates

- *Undergraduate Diversity at Evolution 2012 travel award.* This award brings talented and diverse undergraduates from throughout the US and Puerto Rico to the congress to present a poster, receive mentoring and participate in a career-oriented 'Undergraduate Futures in Evolutionary Biology' panel and discussion. The program covers travel, registration, room and board. Applications consist of a short statement of interest, a letter of recommendation, and the title and abstract of the poster to be presented. Application deadline was March 30. For more information see: www.oeb.harvard.edu/faculty/edwards/community/application.html

Graduate students

- *CSEE student travel grants.* CSEE graduate student members who are traveling more than 500 km to the meeting could request to be considered for a \$500 CDN travel grant. Applications were made during early registration. Recipients were randomly selected from among the list of applicants and were informed by May 15.
- *ASN students travel grants.* ASN graduate student members could request to be considered for a \$500 US travel award. Applications were made during registration and were accepted during the early registration period. To be eligible, the student must present a talk or poster and must not have received the travel award in the previous year. Recipients were randomly selected from among the list of applicants and were informed by May 15.
- *ESEB student registration supplement.* All ESEB graduate student members who reside outside Canada or the USA, and who registered before April 30 (i.e. during early registration), had their fees automatically reduced to \$100 CDN.
- *SSE student travel supplements.* Supplements of \$500 US will be randomly selected from among the list of SSE graduate students who volunteer to help during the congress (whether they were chosen as volunteers or not). Applications were submitted as part of the early registration process. Winners were informed by May 15.

Early career scientists

- *SSE travel stipends.* Intended for students and young scientists to assist with travel and living expenses, as well as registration fees. Applications could be submitted by scientists at various stages of their professional career (e.g., graduate students, postdocs, and lecturers). Scientists working in a country with high GDP were not eligible. For

additional details and the application procedure consult the SSE website. The deadline was February 19, 2012.

- *ESEB travel stipends*. These stipends are analogous to those offered by the SSE. Additional details can be found by following the 'Travel Award' link on ESEB's website. The deadline for applications was February 19, 2012.

Faculty

- *NESCent travel awards for MSI faculty*. The National Evolutionary Synthesis Center (NESCent), with support from the SSE, offers travel awards for faculty from 'minority serving institutions' (MSI), 'historically black colleges or universities', or other institutions with significant enrollment of under-represented students. Awards cover registration, travel, food and lodging, and are intended to provide MSI faculty with an opportunity to present original research in disciplines typically represented at the meetings. The application deadline was March 31, 2012. For more info, please see <http://www.nescent.org/eog/facultytravelaward.php> or contact Dr. Jory Weintraub (jory@nescent.org).

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Chat to Richard or Liz at booth 212 to find out how the Society actively engages with evolutionary ecology.

www.BritishEcologicalSociety.org
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Special events

Plenaries

- SSB Presidential address – Saturday, July 7, 4:45 - 5:45 pm, Canada Hall 2-3
David Mindell (University of California, San Francisco)
"The expanding tree of life: challenges and applications"
- CSEE Presidential address – Sunday, July 8, 4:45 - 5:45 pm, Canada Hall 2-3
Spencer Barrett (University of Toronto)
"Exploring floral diversity: plants, people and places"
- ASN Presidential address – Monday, July 9, 4:45 - 5:45 pm, Canada Hall 2-3
Stevan J. Arnold (Oregon State University)
"Phenotypic evolution, the emergence of a new synthesis"
- ESEB Presidents' Award winner – Tuesday, July 10, 4:00 - 5:00 pm, Canada Hall 2-3
Adam Eyre-Walker (University of Sussex)
"The good the bad and the indifferent: the rates and effects of new mutations"
- SSE Presidential address – Tuesday, July 10, 5:00 - 6:00 pm, Canada Hall 2-3
Scott Edwards (Harvard University)
"Genomics, evolution, birds & beasts: how evolutionary biology can get you a (second) job"

Society-sponsored symposia

Detailed lists of speakers, titles, and times can be found in the 'Daily schedule' below.

1) *American Society of Naturalists*

- Towards an evolutionary community ecology – Monday, July 9, 8:30 am - noon, Rm. 214
Organizers: Robert D. Holt (Univ. of Florida) and Joseph Travis (Florida State Univ.)
- ASN Vice-Presidential Symposium – Natural selection in the wild: from genotype to phenotype – Monday, July 9, 1:15 - 4:45 pm, Canada Hall 2-3
Organizer: Hopi Hoekstra (Harvard University)

2) *Canadian Society for Ecology and Evolution*

- The structure and dynamics of ecological networks: from genes to ecosystems – Sunday, July 8, 8:30 am - noon, Canada Hall 2-3
Organizers: Bronwyn Rayfield (McGill Univ.) and Andrew Gonzalez (McGill Univ.)
- Eco-evolutionary dynamics: how ecological and evolutionary process influence one another – Sunday, July 8, 1:15 - 4:45 pm, Canada Hall 2-3
Organizers: Andrew Hendry (McGill Univ.) and Dolph Schluter (Univ. of British Columbia)

3) *European Society for Evolutionary Biology*

- Influential symbionts: master manipulators of adaptive host behavior – Sat., July 7, 1:15-4:45 pm, Rm. 214
Organizers: Wolfgang J. Miller (Medical Univ. of Vienna) & David Hughes (Penn State U.)
- The physiological mechanisms that shape life histories – Sunday, July 8, 1:15 – 4:45 pm, Rm. 214
Organizers: Emma Barrett (Univ. of East Anglia) and Dan Nussey (Univ. of Edinburgh)

4) *Society for the Study of Evolution*

- Genome evolution and speciation – Saturday, July 7, 8:30 am - noon, Canada Hall 2-3
Organizers: Jeff Feder (Univ. of Notre Dame) and Patrik Nosil (Univ. of Sheffield)
- ‘Next-generation’ genomics of parallelism and convergence – Monday, July 9, 8:30 am - noon, Canada Hall 2-3
Organizer: Axel Meyer (University of Konstanz)

5) *Society of Systematic Biologists*

- Predictive approaches for assessing the fit of evolutionary models – Sat., July 7, 8:30 am - noon, Rm. 214
Organizer: Jeremy M. Brown (Louisiana State University)
- New phylogenetic methods for quantitative trait evolution – Sat., July 7, 1:15 - 4:45 pm, Canada Hall 2-3
Organizers: Cécile Ané (U. Wisconsin-Madison) & Liam J. Revell (U. Massachusetts)

Award talks/symposia

1) *Mayr Award symposium* – Sunday, July 8, 8:30 am - noon, Rm. 214

Talks by those candidates selected to compete for SSB’s Ernst Mayr Award.

2) *R.A. Fisher Prize talk* – Monday, July 9, 4:15 - 4:45 pm, Rm. 208

Awarded annually by the SSE for an outstanding Ph.D. dissertation paper published in the journal *Evolution* during a given calendar year.

David McCandlish (Duke University)

“Visualizing fitness landscapes”

3) *Joint awards symposium* – Tuesday, July 10, 8:30 am - 3:30 pm, Canada Hall 2-3

- American Soc. of Naturalists – Jasper J. Loftus-Hills Young Investigators’ Award winners
- Canadian Society for Ecology & Evolution – Early Career Award winners
- European Society for Evolutionary Biology – John Maynard Smith Prize winner
- Society for the Study of Evolution – Theodosius Dobzhansky Prize winner
- Society of Systematic Biologists – Ernst Mayr Award winner

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Outreach talks

Open to congress attendees and the general public.

- Stephen J. Gould Prize – David Quammen, Fri, July 6, 7:30-8:30 pm, Canada Hall 2-3
“Boswelling the biologist: From the Congo to the virosphere”
An SSE award, presented with the support of The Canadian Museum of Nature.
- CSEE public outreach talk – Rosie Redfield (University of British Columbia), Sunday, July 8, 7:30 - 8:30, Canada Hall 2-3
“Arsenic, social media, and the origin of life”
A CSEE event, presented with the support of the University of Ottawa.

Kids' outreach event

(open to children of congress attendees and the general public)

- Friday, July 6, 1:00 - 4:00 pm @ the Canadian Museum of Nature (CMN). The CMN & CSEE jointly present this event for children of all ages. Learn from CSEE scientists what it is to be a biologist and participate in science-themed games and activities. Also be sure to visit the blockbuster *Whales Tohorā* exhibit, the *Discovery Zone*, and participate in an *I spy stroll*. Museum's regular admission price applies. No registration is required.



Social Events

- *Opening reception* – Friday, July 6, 6:00 - 10:00 pm, Trillium ballroom
- *SSB mixer* – Saturday, July 7, 5:45 - 7:30 pm, Trillium ballroom
- *'Evolutionary Applications' drink reception* – Saturday, July 7 during Poster Session #1 @ the Wiley-Blackwell booth. Join us to celebrate the 'Opening Up' of *Evolutionary Applications*, now a Wiley Open Access journal. Meet the editors: Louis Bernatchez (U. Laval) & Michelle Tseng (Univ. British Columbia). FREE DRINKS, snacks, t-shirts & more!
- *2nd annual NESCent Evolution film festival* – Saturday, July 7, 9:30 - 10:30 pm, Rm. 208
Come out to view and vote on your favorite 3 min videos. Winners will be announced and screened at the farewell dinner on Tuesday, July 10. We'll supply the popcorn! To find out more, stop by the NESCent booth or visit filmfestival.nescent.org.
- *Advancing diversity in evolution: faculty mentoring panel, discussion & social* – Sunday, July 8, 7:00 - 8:30 pm, Rm. 201
- *CSEE night-cap mixer* – Sunday, July 8, 8:30 - 10:00 pm, Trillium ballroom
- *ASN mixer* – Monday, July 9, 5:45 - 7:30 pm, Trillium ballroom
- *SWEET (Symposium for Women Entering Ecology and Evolution Today) mixer* – Monday, July 9, 6:00 - 7:30 pm, Rm. 214
- *W.W. Norton & Company reception* – Monday, July 9 during Poster Session #2 @ the Norton booth. Come help us celebrate the publication of *Evolution* by Carl Bergstrom & Lee Dugatkin. The authors and Norton team will be toasting the almost 100 new adopters of the book for fall 2012 classes. Drinks, snacks, books & more are on us!
- *The Rap Guide to Evolution: a live performance by Baba Brinkman* – Mon., July 9, @ 9:30, Rm. 214.

Sponsored by:

- Cell Press, publisher of *Trends in Ecology and Evolution*, *Trends in Genetics*, *Current Biology*, *Cell Reports*, and *Cell*
- Oxford University Press, proud publisher of *Systematic Biology*, *Genome Biology and Evolution*, *Molecular Biology and Evolution*, *Journal of Heredity*, and *Behavioral Ecology*



- *Congress farewell dinner party* – Tuesday, July 10 @ 6:30 pm, Canadian Museum of Civilization (ticket required). Free busses will loop continuously between the OCC, the

Marriott Hotel, and the Museum, from 6:00 pm - 1:00 am. Guided walks to the Museum (25 min) leaving from OCC at 6:15 and 6:45 pm.

Society General Business meetings

All society members welcome and **encouraged** to attend.

- SSB – Saturday, July 7 @ 12:15 pm (bring your conference lunch), Rm. 104
- SSE – Saturday, July 7 @ 12:15 pm (bring your conference lunch), Rm. 108
- CSEE – Sunday, July 8 @ 12:15 pm (bring your conference lunch), Rm. 104
- ASN – Monday, July 9 @ 12:15 pm (bring your conference lunch), Rm. 106

Council meetings

- ASN/SSB/SSE Joint council meeting – Friday, July 6 @ 9:00 am, Rm. 100 (lunch provided)
- ASN council meeting – Friday, July 6 @ 12:30 pm, Rm. 100
- SSB council meeting – Friday, July 6 @ 12:30 pm, Rm. 108
- SSE council meeting – Friday, July 6 @ 12:30 pm, Rm. 105
- CSEE council meeting – Friday, July 6 @ 12:30 pm, Rm. 103
- ASN/SSB/SSE Joint council exit meeting – Monday, July 9 @ 8:00 am (breakfast provided), Rm. 100
- ASN exit meeting – Tuesday, July 10 @ 8:00 am (breakfast provided), Rm. 104
- SSE exit meeting – Tuesday, July 10 @ 8:00 am (breakfast provided), Rm. 102
- CSEE exit meeting – Tuesday, July 10 @ 8:00 am (breakfast provided), Rm. 100

Editorial board meetings

- *Journal of Evolutionary Biology* – Friday, July 6 @ 8:30 am, Rm. 106
- *Molecular Ecology & Mol. Ecology Resources* – Saturday, July 7 @ 1:15 pm, Rm. 106
- *Ecology and Evolution* – Saturday, July 7, 4:30 - 6:30 pm, Rm. 100
- *American Naturalist* - Sunday, July 8 @ 8:00 am (breakfast provided), Rm. 106
- *Evolution* – Sunday, July 8 @ 8:00 am (breakfast provided), Rm. 100
- *Systematic Biology* – Mon., July 9 @ 12 noon (bring your conference lunch), Rm. 100
- *Evolutionary Applications* – Sunday, July 8 @ 10:00 am, Rm. 106

Education events

- *Evo101 workshop: Data literacy in evolution education* – Friday, July 6, 8:00 am - 4:30 pm, Rm. 104 (prior registration required)
A workshop for science educators on evolution and using evolutionary data in the classroom. Detailed program included in the 'Daily schedule' below.
- *SSE Education Symposium – Teaching with data: opportunities to engage students in doing science* – Saturday, July 7, 8:30 am - noon, Rm. 104

For more information, visit: <http://tinyurl.com/cfr86ld>. Detailed program in the 'Daily schedule' below.

- *Expanding SSE's Education Activities* – Sunday, July 8, 8:30 - 10:00 am, Rm. 108
The SSE Education Committee is exploring the possibility of an education section within the society to compliment members' scientific interests and address the practical career needs of members who teach. As a first step, the committee has proposed to hold a one day mini-conference on teaching evolution immediately following the Evolution 2013 meeting. Join us to share your comments, ideas, and requests for both the mini-conference and an education section from 8:30 - 9:30am, after which the planning committee will meet. To volunteer to serve on the planning committee, please contact: Louise Mead (lmead@msu.edu) or Kristin Jenkins (kjenkins@nescent.org).

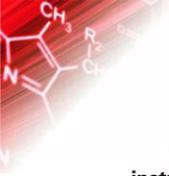
Workshops and other events

Friday, July 6

Prior registration is required for all these events.

- *Graduate workshop: The tree of sex - a comprehensive synthesis of sex determination systems in eukaryotes*, 9:30 am - 5:00 pm, Rm. 102
Detailed program included in the 'Daily schedule' below.
- *Molecular Ecology symposium*, 8:50 am - 5:20 pm, Confederation III Rm. (4th level), Westin Hotel (attached to the OCC)
A one-day symposium to celebrate the 20th anniversary of the journal *Molecular Ecology*. The symposium will showcase some of the best research in each of the fields covered by the journal, and map out future research priorities with panel discussions. Sponsors: Wiley-Blackwell (organizers: Loren Rieseberg & Tim Vines; Univ. British Columbia)
Detailed program included in the 'Daily schedule' below.
- *Graduate student workshop: R for biodiversity analysis*, 1:00 - 5:00 pm, uOttawa: 90 University Priv., Rm. 152
An introduction to the use of the R statistical computing environment for the analysis of biodiversity data. Additional details here: <http://evo2012-r-biodiversity.eventbrite.com>
 - Instructor: Steven Kembel (University of Oregon)
 - Sponsors: Canadian Institute of Ecology & Evolution & CSEE
- *Workshop: Communicating science to society*, 10:00 am - 1:00 pm, Ottawa Rowing Club, 10 Lady Grey Dr.
Learn the basics or fine tune the dark art of science communication via insider advice from a group of North America's top science communicators. Additional details here: <http://evo2012commsciencetosociety.eventbrite.com>

- Hosts: Peter Calamai (Adjunct Prof., Carleton Univ. School of Journalism & Communication; founding member of the Canadian Science Writers' Association) & Richard Webster (Science & Communications Officer for Row to the Pole and Biology Ph.D. candidate, Carleton Univ.)
- Sponsors: Canadian Institute of Ecology & Evolution (CIEE) and CSEE
- Speakers:
 - Carl Zimmer (NYT columnist & author)
 - Penny Park (Producer of CBC's 'Quirks & Quarks' and Discovery Channel's 'The Daily Planet'. Executive Director of the Science Media Centre of Canada)
 - Elizabeth Howell, Ottawa Business Journal, freelance science journalist and social media expert
 - Tim Lougheed, freelance science journalist
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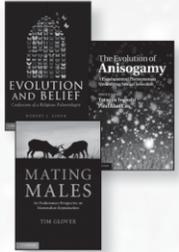


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During the meeting

Registration NOT required.

- *Undergraduate diversity @ Evolution: undergraduate futures talk and panel discussion* – Saturday, July 7, 8:30 - 10:00 am, Rm. 108
Part of the Undergraduate Diversity @ Evolution program held each year at the meetings, this inspirational talk and panel discussion will focus on the excitement of a career in evolutionary biology, the diversity of career options available to individuals with an advanced degree in the field, and best practices for applying to graduate school. The discussion and talk this year will be led by Dr. Carol Lee (Dept. Zoology & Center of Rapid Evolution (CORE), U. Wisconsin) and will feature a diverse panel of graduate students and pdf's to answer questions from students
- *How to get published* – Saturday, July 7, 12:15 - 1:15 pm, Rm. 102 (bring along your conference lunch)
Host: editors of several leading evolution journals
Sponsors: Nature Publishing Group and Wiley-Blackwell
- *European Research Council funding opportunities* – Saturday, July 7, 12:15 - 1:15 pm, Rm. 203 (bring along your conference lunch)
An information session on funding opportunities in Europe for excellent and creative scientists from any country in the world.
Host: Carmen García-Fernández (Scientific Officer, European Research Council)
- *Survival of the fittest: Tips on how to get a job in academia* – Sunday, July 8, 12:15 - 1:15 pm, Rm. 102 (bring along your conference lunch)
This interactive workshop is designed for anyone who is, or will at some time in the future, be applying for an academic position. Restricted to graduate students and pdfs.
Host: Daniel Promislow (Univ. of Georgia) and Lorne Wolfe (Georgia Southern Univ.)
- *NSF funding opportunities* – Sunday, July 8, 12:15 - 1:15 pm, Rm. 108 (bring along your conference lunch)
An information session on NSF funding opportunities and program changes.
Host: Samuel Scheiner, Program Director - National Science Foundation
- *Advancing diversity in evolution: faculty mentoring panel, discussion & social* – Sunday, July 8, 7:00 - 8:30 pm, Rm. 201
Focused on increasing diversity in evolutionary biology by advancing leadership of women in the sciences. Both genders and people from all ethnic backgrounds are welcome. Light refreshments will be served. Intended audience: faculty.
Sponsor: SSE and ESEB (host: Jenny Boughman, Michigan State University)

- *NSERC student scholarship & PDF programs (presentation and Q&A)* – Monday, July 9, 12:15 – 1:15 pm, Rm. 104 (bring along your conference lunch)
Host: NSERC Program Officer/CRSNG Administratrice de programmes
- *NSERC Discovery Grant program (presentation and Q&A)* – Monday, July 9, 12:15 – 2:15 pm, Rm. 102 (bring along your conference lunch)
Host: NSERC Program Officer/CRSNG Administratrice de programmes
- *SWEET (Symposium for Women Entering Ecology and Evolution Today)* – Monday, July 9, 1:15 - 4:45 pm (talks: see daily schedule below) | Mixer 6:00 – 7:30 pm, Rm. 214
Theme: Knowing your options and getting the job you want: career opportunities beyond academia. For more details, see <http://www.ecoevo.ca/SWEET>
- *The role of science in policy - informing and engaging with decision-makers* – Tuesday, July 10, 2:00 - 3:30 pm, Rm. 102
An interactive panel discussion with:
 - Ted Hsu, PhD Physics, Liberal Member of Parliament (Canada), Science & Tech. Critic
 - Rees Kassen (uOttawa, Chair of the Partnership Group for Science and Engineering, Executive Committee for the Global Young Academy)
 - Jeff Kinder, Manager, Science & Technology Strategy, Natural Resources Canada
 Sponsor: CSEE (organizer: Leanna Lachowsky)
Intended audience: graduate students and pdfs

Wednesday, July 11

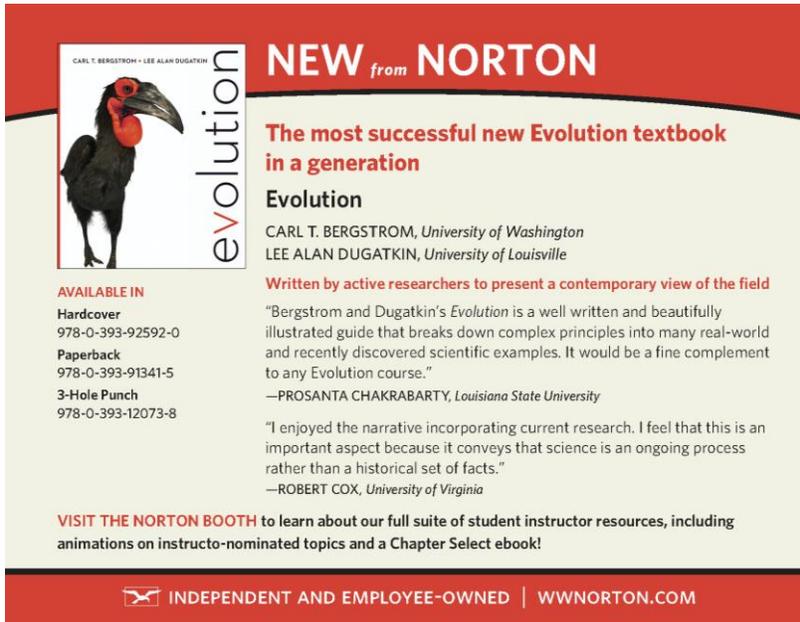
Prior registration required for all these events.

- *Graduate student workshop: Next generation sequencing data in ecology and evolution*, 9:00 am - 5:00 pm, uOttawa – 90 University Priv., Rm. 152
Using Illumina and other next-gen sequencing technologies for population genetics, in particular assessing variation within and among populations. Additional details here: <http://evo2012nextgensequencing.eventbrite.com>
 - Instructor: Nolan Kane (University of British Columbia)
 - Sponsors: Canadian Institute of Ecology & Evolution (CIEE) and CSEE
- *Graduate student workshop: Mathematical modelling in evolutionary ecology*, 9:00 am - 12 noon, uOttawa – 90 University Priv., Rm. 140
By ‘dissecting’ examples from recent theoretical work, this workshop aims to improve students’ ability to digest theoretical/mathematical papers, and give some initial guidance to wannabe modellers. Additional details here: <http://evo2012mathmodelecoevo.eventbrite.com/>
 - Instructor: Hanna Kokko (The Australian National University)
 - Sponsor: American Society of Naturalists

iEvoBio satellite conference

(July 10 & 11)

A two-day satellite conference on Informatics for phylogenetics, evolution and biodiversity that overlaps the final day of the main congress. iEvoBio brings biologists working in evolution, systematics, and biodiversity together with software developers and mathematicians to catalyze the development of new tools and increase awareness of the possibilities offered by existing technologies. See iEvoBio.org for more information. A detailed program can be found in the 'Daily schedule' below.



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Daily schedule

(**Bold** denotes presenting author.)

Friday, July 6

Rm. 102 – Workshop: *The tree of sex: a comprehensive synthesis of sex determination systems in eukaryotes*

- 9:30 **Sally Otto** (Univ. British Columbia): Sex, recombination and sex chromosomes
- 10:30 Break
- 11:00 **Daven Presgraves** (University of Rochester): Sex chromosomes and complex speciation in the *Drosophila simulans* clade
- 11:30 **Doris Bachtrog** (U. California, Berkeley): Transitions of sex chromosomes in Diptera
- 12:00 **Judith Mank** (University College London): Sex chromosomes, sex-specific selection, and the evolution of sexual dimorphism
- 12:30 - 1:30 Lunch (included)
- 1:30 **Katie Peichel** (Fred Hutchinson Cancer Research Center): Does sexually-antagonistic selection contribute to sex chromosome turnover in sticklebacks?
- 2:00 **Mark Kirkpatrick** (University of Texas, Austin): The role of sexual conflict in sex chromosome evolution and turnover
- 3:00 - 5:00 'Tree of Sex' database demonstration and reception

Rm. 104 – Evo101 workshop: *Data literacy in evolution education*

- 8:00 Registration and coffee/bagels
- 8:30 Introductions: **Tom Meagher** (Chair SSE Education Committee and Prof. of Biology, Univ. St. Andrews), **Louise Mead** (Director of Education, BEACON Center for Evolution in Action), **Kristin Jenkins** (NESCent Education and Outreach Program)
- 9:00 Making sense of evolutionary data with phylogenetics - **Ryan Gregory** (U. Guelph)
- 9:45 Break
- 10:00 Understanding evolution and understanding science: resources for teaching evolution and the nature of science - **Anna Thanukos** (Principal Editor, U. California Museum of Paleontology's 'Understanding Evolution / Understanding Science')
- 10:30 Hands on activities for teaching tree thinking - **Louise Mead & Kristin Jenkins**
- 12:00 - 1:00 Lunch (provided)
- 1:00 Learning to swim in a data deluge - **Sam Donovan** (Research Assoc. Prof. Biology, U. Pittsburgh)

1:45 Panel discussion of data literacy - **Sam Donovan, Tom Meagher, Cathy Manduca** (Director Science Education Resource Center, Carleton College)

2:15 Break

2:30 Break-out sessions: 1) Basic data literacy (5th-10th grades) - BEACON data nuggets by graduate students, **Melissa Kjelvik** (Graduate student, Michigan State U.); 2) Generating data in the classroom with AvidaED - Louise Mead

4:00 Raffle and wrap-up

Confederation III (4th level), Westin Hotel – *Molecular ecology symposium*

8:50 Welcome – **Tim Vines**

Speciation and hybridization

9:00 **Alex Buerkle**

9:20 **Alex Widmer**

9:40 **Tatiana Giraud**

10:00 Panel discussion

10:20 Break

Landscape Genetics, Phylogeography and Conservation

10:40 **Francois Balloux**

11:00 **Bryan Carstens**

11:20 **Victoria Sork**

11:40 Panel discussion

12:00 Lunch

Ecological Genomics and Molecular Adaptation

1:30 **Jon Slate**

1:50 **Sean Rogers**

2:10 **Aurélie Bonin**

2:30 **Louis Bernatchez**

2:50 Panel discussion

3:10 Break

Kinship, Parentage and Behaviour

3:40 **Dany Garant**

Ecological Interactions

4:00 **Brent Emerson**

4:20 **Graham Stone**

4:40 Panel discussion

5:00- 5:20 Final address – **Loren Rieseberg**

Saturday, July 7 | 8:30 – 10:00 am

| | Canada Hall 2-3 | Rm. 214 | Rm. 104 | 108 | Rm 201 |
|--|--|--|--|--|---|
| | SSE Symposium - Genome evolution and speciation | SSB Symposium - Predictive approaches for assessing the fit of evolutionary models | SSE Education Symposium - Teaching with data: opportunities to engage students in doing science | | Adaptation 1 |
| 8:30 am | Introduction: the genomics of speciation Feder, Jeffrey L. | Introduction & When can we trust our trees? Assessing phylogenetic reliability with predicted marginal distributions | | Undergraduate futures talk & panel discussion (see p. 40 for details) | Do some like it hot? Thermal adaptation in <i>Drosophila</i> Austin, Christopher ; Moehring, Amanda |
| 8:45 am | & Nosil, Patrik | Brown, Jeremy M. | Learning to swim in a data deluge Donovan, Sam | | Time-shift experiments and patterns of adaptation across time and space Blanquart, François ; Gandon, Sylvain |
| 9:00 am | Why the association between interspecies divergence and inversions in <i>Drosophila</i> ? Stevison, Laurie S.; McGaugh, Suzanne E; Noor, Mohamed A.F. | Posterior predictive approaches to Bayesian phylogenetic model selection | | | Genomic correlates of relationship-QTL in forelimb- hindlimb differentiation in mouse Pavlicev, Mihaela |
| 9:15 am | Genomic approaches to studying speciation in postglacial fishes Rogers, Sean M. ; Barrett, Rowan D.H.; Mee, Jon | Lewis, Paul ; Xie, Wangang; Chen, Ming- Hui; Kuo, Lynn | | | Mutational variation in HIV: can we select against resistance? Polster, Robert ; Guillaume, Frédéric |
| 9:30 am | Genomics of parallel and rapid ecotypic differentiation in <i>Senecio pinnatifolius</i> Roda, Federico; Walter, Gregory M; Liu, Huanle; Ambrose, Luke; Lowe, Andrew; Prentis, Peter; Rieseberg, Loren H; Ortiz- Barrientos, Daniel | Do multi-species coalescent models fit empirical data? Reid, Noah M ; Brown, Jeremy M.; Satler, Jordan; Pelletier, Tara; McVay, John; Hird, Sarah; Carstens, Bryan | Lessons learned from helping faculty teach with data Manduca, Cathy | | A fortuitous experiment in fine- scale adaptation: the biological invasion of brown trout Westley, Peter; Ward, Eric; Fleming, Ian |
| 9:45 am | Genome-wide patterns of introgression & isolation between sympatric <i>Mimulus</i> species Kenney, Amanda M.; Sweigart, Andrea L. | | Note: following exhibits start during the 10 am coffee break | | The Tortoise and the Hare: Mediterranean vs. montane adaptation in <i>Arabidopsis thaliana</i> Wolfe, Marnin ; Tonsor, Stephen |
| Morning coffee break 10:00 – 10:30 am | | | | | |

| Rm. 202 | Rm. 203 | Rm. 204 | Rm. 205 | Rm 206 |
|--|---|---|---|--|
| Adaptation & evolutionary genetics | Behaviour and social evolution 1 | Community ecology 1 | Ecological genetics 1 | Invasion ecology & evolution |
| Environmental drivers of defense trait variation in wild tomatoes Haak, David; Ballenger, Blake; Moyle, Leonie | Extraordinary competitiveness in small groups Biernaskie, Jay; Foster, Kevin | Influences of grazing and landscape on bee communities Evans, Megan; Cartar, Ralph, V.; Wonneck, M. | Local adaptation and phenotypic divergence in a tropical tree species: <i>Eperua falcate</i> Brousseau, Louise; Scotti, Ivan; Bonal, Damien | Invasive mammals and reproductive rates Baker, Joanna; Capellini, Isabella; Venditti, Chris |
| Rapid system-wide shifts following habitat invasions Lee, Carol Eunmi; Silva, Joana C.; Charmantier, Guy; Posavi, Marijan; Johnson, Kelsey | Variance manipulation and the dominance of despotism Fronhofer, Emanuel; Mitesser, Oliver; Poethke, Hans Joachim | What factors limit fruit production in the lowbush blueberry (<i>Vaccinium angustifolium</i>)? Fulton, Melissa; Jesson, Linley | Do insect herbivores impose natural selection on leaf shape? Campitelli, Brandon; Stinchcombe, John | Differences in performance and herbivory along a latitudinal gradient for common burdock (<i>Arctium minus</i>) Kambo, Dasvinder; Kotanen, Peter |
| The distribution of weedy genotypes in two environments: is there evidence for local adaptation of <i>Sinapis arvensis</i> (Brassicaceae) to adjacent environments? Morrison, Ginnie.D.; Linder, C. Randal | Queen pheromones and the interplay between costs and constraints in honest signalling Holman, Luke; d’Ettorre, Patrizia | Increased nutrient enrichment from seabird colonies: an important factor in determining community structure at lower trophic levels Gagnon, K; Rothäusler, E; Yli-Renko, M; Syrjänen, A; Jormalainen, V | Panmixia in European eel: the consequences of having sex in the Bermuda Triangle Hansen, Michael | Spatial versus kin selection: What drives invasions? Kubisch, Alexander; Fronhofer, Emanuel A.; Poethke, Hans J.; Hovestadt, Thomas |
| The prediction of adaptive evolution: Empirical application of the secondary theorem of selection Morrissey, Michael; Parker, D; Korsten, P; Pemberton, J; Kruuk, L; Wilson, A | Genetic architecture and constraint in social evolution Howie, Jennifer; Rozen, Daniel; Stewart, Balint; Buttery, Neil; Parkinson, Katie; Thompson, Chris | Barriers of natural regeneration of black spruce (<i>Picea mariana</i>) in post-fire <i>Kalmia</i> dominated heath in eastern Canada Mallik, A; Kravchenko, D; St. Martin, P | Local adaptation in the flowering-time gene network of balsam poplar, <i>Populus balsamifera</i> L. Keller, Steve; Levens, Nick; Olson, Matt; Tiffin, Peter | Introduced parasitoid population exhibits both local adaptation and reduced performance Mohl, Emily; Desneux, Nicolas; Heimpel, George |
| Selective sweeps in HIV Pennings, Pleuni | Physiological and genetical response to stoichiometric food constraints in clones of <i>Daphnia</i> Roy Chowdhury, Priyanka; Jeyasingh, Punidan D.; Weider, Lawrence J. | Quantifying isotopic niche overlap: The effect of water clarity on dietary resource partitioning between two piscivores in Boreal lakes Stasko, Ashley D.; Johnston, Tom A.; Gunn, John M. | Detecting signatures of selection in divergent ecotypes of kokanee and sockeye salmon Lemay, Matthew; Donnelly, David; Russello, Michael | Parallel invasions do not result in parallel adaptations: rapid divergence in body size and development in an invasive butterfly on two continents. Seiter, Sarah; Kingsolver, Joel; Ohsaki, Naota |
| A test for selection employing quantitative trait locus and mutation accumulation data Rice, Daniel P; Townsend, Jeffrey P | Mode of evolution of fertility signals in social insects van Zweden, Jelle; Van Oystaeyen, Annette; Wneseleers, Tom | Simulated climate change causes a shift from biomass production to decomposition in boreal forest moss Whiteley, Jonathan; Gonzalez, Andrew | Genome-wide association genetics of an adaptive trait in lodgepole pine Parchman, Thomas; Gompert, Zachariah; Benkman, Craig; Buerkle, C. Alex | Our Home and Native Land: regulation of population growth rates in the native and invasive ranges of a perennial plant Wolfe, Lorne; Sowell, Dexter; Neiman, Maurine; Taylor, Doug |

Morning coffee break | 10:00 – 10:30 am

Saturday, July 7 | 8:30 – 10:00 am

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|--|---|---|--|--|
| | Molecular evolution 1 | Life history studies 1 | Experimental evolution: theory | Phylogenetics 1 |
| 8:30 am | <p>Extract information from genomic dataset using mathematical models of ribosome movement and adaptation</p> <p>Gilchrist, Michael; Shah, Premal</p> | <p>Correlated evolution of growth and dispersal in <i>Tetrahymena thermophile</i></p> <p>Mitchell, Katherine Ann; Pennekamp, Frank; Thuiller, Virginie; Schtickzelle, Nicolas</p> | <p>Population genetic signatures of balancing selection by sexual antagonism</p> <p>Connallon, Tim; Clark, Andrew G.</p> | <p>Colour pattern evolution in Vanessa butterflies (Lepidoptera- Nymphalidae)</p> <p>Abbasi, Roohollah; Marcus, Jeffrey</p> |
| 8:45 am | <p>Parallel evolution of tetrodotoxin resistance in the voltage-gated sodium channel gene family</p> <p>McGlothlin, Joel; Chuckalovcak, John; Janes, Daniel; Edwards, Scott; Brodie, Edmund, III</p> | <p>Pulsed resources and the coupling between life-history strategies and exploration patterns in eastern chipmunks</p> <p>Montiglio, Pierre-Olivier; Garant, Dany; Bergeron, Patrick; Dubuc-Messier, Gabrielle; Réale, Denis</p> | <p>The effects of population structure on asexual evolution</p> <p>Covert, Art</p> | <p>From host plants to host ants: Phylogeny and life history of the predaceous Lepidochrysops (Lycaenidae: Polyommatainae) butterflies</p> <p>Espeland, Marianne; Pierce, Naomi</p> |
| 9:00 am | <p>Molecular evolutionary history of dehydration responsive elements in <i>Arabidopsis</i></p> <p>Mojica, Julius; Beck, James; Snelling, Jacob; McKay, John</p> | <p>Convergent evolution in toxic springs: New World livebearing fishes repeatedly evolve big babies</p> <p>Riesch, Rüdiger; Plath, Martin; Schlupp, Ingo; Langerhans, R. Brian</p> | <p>Proposing a new approach to eukaryotic transposable element evolution</p> <p>Elliott, Tyler A.; Gregory, T. Ryan</p> | <p>Does it matter if you live on a host? - Diversification rate shifts in a megadiverse marine bivalve lineage</p> <p>Li, Jingchun; Ó Foighil, Diarmaid</p> |
| 9:15 am | <p>Recurrent gene deletions maintain adaptive cyanogenesis polymorphisms in white clover (<i>Trifolium repens</i> L.)</p> <p>Olsen, Kenneth M.; Kooyers, Nicholas J.; Small, Linda L.</p> | <p>Polymorphic number of antennal segments in a beetle population: sexually different response to artificial selection</p> <p>Tuda, Midori; Nakahira, Kengo; Yanagi, Shin-ichi; Kagoshima, Kumiko; Sakurai, Gen</p> | <p>Understanding the inclusive fitness controversy</p> <p>Fletcher, Jeffrey</p> | <p>Evolution of multicellularity coincided with increased diversification of cyanobacteria and the Great Oxidation Event</p> <p>Schirmeister, Bettina E.; de Vos, Jurriaan M.; Antonelli, Alexandre; Bagheri, Homayoun C.</p> |
| 9:30 am | <p>Gene conversion rapidly generates MHC variation in bottlenecked bird populations</p> <p>Spurgin, Lewis; van Oosterhout, Cock; Illera, Juan Carlos; Gharbi, Karim; Emerson, Brent; Richardson, David</p> | <p>Lagging adaptation to warming climate in <i>Arabidopsis thaliana</i></p> <p>Wilczek, Amity; Cooper, Martha; Korves, Tonia; Schmitt, Johanna</p> | <p>Genome-wide patterns of molecular variation in experimental populations of <i>Drosophila melanogaster</i> evolving under alternative selection regimes</p> <p>Huang, Yuheng; Wright, Stephen; Agrawal, Aneil</p> | <p>The evolution of eukaryotes from archaea</p> <p>Williams, Tom A.; Embley, T. Martin</p> |
| 9:45 am | <p>Transcribed microsatellites may rapidly generate evolutionary potential in sunflowers.</p> <p>Welch, Mark E.; Pramod, Sreepriya</p> | <p>Interactive effects of sex, social environment, dietary restriction and methionine on survival and reproduction in fruit flies</p> <p>Zajitschek, Felix; Zajitschek, Susanne; Friberg, Urban; Maklakov, Alexei</p> | | <p>Adaptive radiations in heterogeneous landscapes</p> <p>Ripa, Jörgen</p> |
| Morning coffee break 10:00 – 10:30 am | | | | |

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|--|--|--|
| <p>Sexual selection & mating systems 1</p> <p>MHC variation is related to a sexually-selected ornament, survival and parasite resistance in common yellowthroats</p> <p>Dunn, Peter; Bollmer, Jennifer; Freeman-Gallant, Corey; Whittingham, Linda</p> | <p>Mating systems & sexual selection 1</p> | <p>Fish speciation/hybridization</p> <p>Speciation with gene flow in coral reef fish? A fascinating story from an unsexy group of teleosts (genus: <i>Haemulon</i>)</p> <p>Bernal, Moises; Rocha, Luiz</p> | <p>Species interactions & coevolution 1</p> <p>Species interactions alter evolutionary responses to a novel environment</p> <p>Barraclough, Tim; Lawrence, Diane; Fiegna, Francesca; Phillimore, Albert; Bell, Thomas</p> |
| <p>Changes in courtship signaling in mushroom-feeding <i>Drosophila</i></p> <p>Giglio, Erin; Dyer, Kelly</p> | <p>Sperm competition and the evolution of male ejaculate composition</p> <p>Dhole, Sumit; Servedio, Maria</p> | <p>Fast turnover of sex determination and genetic incompatibilities in hybridizing species of <i>Cottus</i></p> <p>Cheng, Jie; Czypionka, Till; Nolte, Arne W.</p> | <p>Molecular evolution of chemoreceptor genes in <i>Scaptomyza</i> (Drosophilidae)</p> <p>Goldman-Huertas, Benjamin; Villalobos, Martha; Oland, Lynne; Whiteman, Noah</p> |
| <p>Roles for pleiotropy and reduced hybrid fitness in shaping reproductive communication of <i>Engystomops</i> (<i>Physalaemus</i>) <i>petersi</i> frogs</p> <p>Hoke, Kim; Trillo, Alex; Narvaez, Andrea</p> | <p>Postcopulatory sexual selection: Exploring the molecular correlates of cryptic fertilization bias in <i>Anolis</i> lizards</p> <p>Duryea, MC; Calsbeek, Ryan; Kern, Andrew</p> | <p>Incomplete assortative mating between ecologically-divergent, sympatric lamprey species.</p> <p>Hume, John; Adams, Colin; Mable, Barbara; Bean, Colin</p> | <p>Ecological and evolutionary consequences of the evolution of a novel function in a long-term experiment with <i>E. coli</i></p> <p>Turner, Caroline; Blount, Zachary; Lenski, Richard</p> |
| <p>Can polyandry prevent the invasion of a sex-ratio drive chromosome? An investigation in natural populations of <i>Drosophila neotestacea</i></p> <p>Pinzone, Cheryl; Dyer, Kelly</p> | <p>Mating systems and the genetic bases of the domestication process</p> <p>Glemin, Sylvain; Ronfort, Joëlle</p> | <p>Adaptation to salinity and postmating isolation between populations of rainwater killifish</p> <p>Kozak, Genevieve; Fuller, Rebecca</p> | <p>Maximizing personal fitness allows cooperators to stochastically purge cheaters</p> <p>Waite, Adam; Shou, Wenying</p> |
| <p>Variation in acoustic signalling traits can be shown to exhibit footprints of sexual selection</p> <p>Reinhold, Klaus</p> | <p>Is resistance futile? Mating economics in a sperm storing and sexually dimorphic crustacean</p> <p>Gosselin, Thierry</p> | <p>Hybridization between genetically-modified Atlantic salmon and wild brown trout results in novel ecological interactions and potential genetic introgression</p> <p>Oke, Krista B.; Westley, Peter A.H.; Moreau, Darek T.R.; Fleming, Ian A.</p> | <p>Phylogenetic and experimental tests of interactions among mutualistic plant defense traits in <i>Viburnum</i> (Adoxaceae): The Bed and Breakfast Hypothesis</p> <p>Weber, Marjorie; Clement, Wendy; Donoghue, Michael; Agrawal, Anurag</p> |
| <p>Partitioning the effects of spatial isolation, nest habitat, and individual diet in causing assortative mating within a population of threespine stickleback</p> <p>Snowberg, Lisa; Bolnick, Daniel</p> | <p>Hybridization and polyploidy are associated with the evolution of hermaphroditism in the moss genus <i>Atrichum</i></p> <p>Perley, Danielle; Jesson, Linley</p> | <p>Evolution in Darwin's Dreamponds: The adaptive radiations of cichlid fishes in East Africa and the genetic basis of evolutionary innovations</p> <p>Salzburger, Walter</p> | <p>The evolution of herbivory in <i>Drosophila</i></p> <p>Whiteman, Noah</p> |
| <p>Morning coffee break 10:00 – 10:30 am</p> | | | |

Saturday, July 7 | 10:30 am – 12:00 noon

| | Canada Hall 2-3 | Rm. 214 | Rm. 104 | Rm. 201 |
|---|--|---|---|--|
| | SSE Symposium - Genome evolution and speciation | SSB Symposium - Predictive approaches for assessing the fit of evolutionary models | SSE Education Symposium - Teaching with data: opportunities to engage students in doing science | Adaptation 2 |
| 10:30 am | Divergence hitchhiking facilitates genomic isolation during speciation-with-gene-flow Via, Sara | Robust regression and posterior predictive approaches to improve the fit of evolutionary models for quantitative traits Slater, Graham; Pennell, Matt | Teaching with data exhibits <ul style="list-style-type: none"> • BioQUEST Curriculum Consortium • BEACON Center for the Study of Evolution in Action • Understanding Evolution - an award winning collection of teaching resources from UCMP - Berkeley • DryadLab - the educational initiative of the Dryad data repository • Cornell Lab of Ornithology • Science Education Resource Center • Big Data NCEAS Working Group • and others (runs 10 - 11:15 am, including morning coffee break) | Cline every mountain: Ecological genetics and genomics of adaptation to climate in conifers Aitken, Sally; Bemmels, Jordan; Lobo, Nina; de la Torre, Amanda; Holliday, Jason |
| 10:45 am | Genomic divergence across the speciation continuum in <i>Rhagoletis</i> Powell, Tom; Murphy, Mason; Sim, Sheina B.; Feder, Jeffrey L. | | | Evolution of an agricultural weed from native Mediterranean ancestors: adaptive loss of vernalization and rosette leaves in wild radish Conner, Jeff; Dworkin, Ian; Charbonneau, Amanda |
| 11:00 am | Genomic islands and gene flow in <i>Anopheles gambiae</i> Besansky, Nora; Reidenbach, Kyanne; Neafsey, Daniel; Costantini, Carlo; Sagnon, N'Fale; Muskavitch, Marc | Sequential methods for ABC: applications to hierarchical models Beaumont, Mark | Finding the Bull's-eye: Targets of selection vary between geographically disparate cyanogenesis cline replicates in white clover (<i>Trifolium repens</i> L.) Kooyers, Nicholas; Olsen, Kenneth | Finding the Bull's-eye: Targets of selection vary between geographically disparate cyanogenesis cline replicates in white clover (<i>Trifolium repens</i> L.) Kooyers, Nicholas; Olsen, Kenneth |
| 11:15 am | Genome-wide genetic differentiation, introgression, & the genetic architecture of isolation in <i>Lycaeides</i> butterflies Gompert, Zachariah; Lucas, Lauren K.; Nice, Chris C.; Forister, Mathew L.; Fordyce, James A.; Buerkle, C. Alex | | | Local adaptation contributes to genetic differentiation in <i>Boechera stricta</i> - niche modeling and evidence Lee, Cheng-Ruei; Mitchell-Olds, Thomas |
| 11:30 am | Speciation and chromosome rearrangements Kirkpatrick, Mark | Ancient admixture in human evolution Wall, Jeff; Stepson, L.; Woerner, August; Hammer, Michael | Data access and scientific societies Meagher, Tom | Adaptive divergence in DNA repair efficiency among closely related <i>Daphnia</i> populations from contrasting ultraviolet radiation environments in nature Miner, Brooks; Kerr, Benjamin |
| 11:45 am | Genomic divergence during speciation: symposium summary Nosil, Patrik; Feder, Jeffrey L. | | | Thermal acclimation and adaptation in populations from differing aquatic environments Narum, Shawn; Campbell, Nathan; Meyer, Kevin; Miller, Michael; Hardy, Ron |
| Lunch (provided) 12:00 – 1:15 pm 'Bring your lunch' events: SSB business meeting (Rm. 104) SSE business meeting (Rm. 108) Info. sessions: European Research Council Funding Opportunities (Rm. 203) How to get published (Rm. 102) | | | | |

| Rm. 202 | Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|---|---|---|--|--|
| Adaptation & exp. evolution 1 | Behaviour & social evolution 2 | Community ecology 2 | Population & ecological genetics | Ecology/evolution of disease 1 |
| Experimental evolution of herbicide resistance in <i>Chlamydomonas reinhardtii</i> : bridging the gap between theory and practice Lagator, Mato ; Neve, Paul; Colegrave, Nick | Do alternative phenotypes in toxic <i>Prymnesium parvum</i> bloom populations reveal a social dilemma? Driscoll, William ; Ferriere, Regis; Hackett, Jeremiah | Assessing diversity in a community of Australian fig wasps Darwell, Clive ; Cook, James | Demographic and selective effects of fire in Mediterranean pines: molecular variation and pyrophytism Budde, K ; Heuert, M; Hernández-Serrano, A; Pausas, JG.; Verdú, M; González-Martínez, SC | Infectious disease, ecology, and phylogenetic host specificity in primates and humans Cooper, Natalie ; Griffin, Randi; Franz, Mathias; Omotayo, Moshood; Nunn, Charles L. |
| Experimental evolution of numerical competency in <i>Drosophila melanogaster</i> Long, Tristan ; Rice, William | Epistatic interactions between two genes underlies complex behaviour Fitzpatrick, Mark ; Meese-Tamuri, Saira | Co-occurrence patterns in response to disturbance and granivore exclusion treatments Marquis, Gerald; Schamp, Brandon | Ecological-genetic differentiation mechanisms in a novel crop-weedy rice interaction in California Kanapeckas, Kimberly L ; Lawton-Rauh, Amy; Burgos, Nilda; Fischer, Albert | The transcriptome response of the pea aphid to pathogenic bacterial infection Huynh, Lynn ; Gerardo, Nicole |
| Adaptive landscapes in evolving populations of <i>Pseudomonas fluorescens</i> Melnyk, Anita ; Kassen, Rees | Indirect genetic effects on behaviour and development Hager, Reinmar | Effects of simulated climate change and grazing pressure on assemblage-structure of soil microarthropods in a native rangeland Newton, Jeffrey ; Proctor, Heather; Cahill, JC | Landscape genetic structure in a bird species endemic to a single island: divergence with gene flow? Langin, Kathryn ; Sillett, Scott; Funk, Chris; Morrison, Scott; Ghalambor, Cameron | Ecological tools for studying drug resistance in clinical malaria infections Mideo, Nicole ; Juliano, Jon; Bailey, Jeff; Read, Andrew |
| Evolutionary dynamics of small vs. large-sized populations: the interaction of genetic drift with natural selection Santos, Marta ; Matos, Margarida; Rose, Michael R. | Evolution of sociality, diet, and craniodental anatomy in the Caninae Muñoz-Durán, Joao ; Fuentes, Jesualo | Variation in the phylogenetic structure of British bird and butterfly communities through time and space Pearse, William ; Roy, David; Purvis, Andrew | Barbata Revisited: 40 years of adaptive change in ecotypes of the slender wild oat, <i>Avena barbata</i> , in California Latta, Robert | Virulence and mutualism evolution in a community context Nelson, Paul ; May, Georgiana |
| Experimental test of the full eco-evolutionary dynamic cycle between rapid evolution and population density in aphids Turcotte, Martin ; Reznick, David; Hare, J. Daniel | Parasite-induced swarming behavior in <i>Artemia</i> spp. Rode, Nicolas Olivier ; Lievens, Eva J. P.; Lenormand, Thomas | Pollinator services in Canada's tall grass prairie: short term responses to fire and climate Semmler, Sarah J. ; Worley, Anne C. | Detecting recent and large populations in sympatry Leung, Christelle ; Magnan, Pierre; Angers, Bernard | Consequences of competition for malaria parasite life-history strategies and transmission Pollitt, Laura ; Mideo, Nicole; Colegrave, Nick; Reece, Sarah E |
| Understanding the genetic basis for compensation in rifampicin-resistant <i>Pseudomonas aeruginosa</i> Gifford, Danna R ; MacLean, R Craig | Evolutionary consequences of indirect genetic effects Trubenova, Barbora ; Hager, Reinmar | The interplay between interspecific competition and habitat filtering in structuring bird communities Trisos, Christopher ; Petchey, Owen; Tobias, Joseph | Competitive fitness during microbial range expansions Müller, Melanie JI ; Korolev, Kirill S; Murray, Andrew W; Hallatschek, Oskar; Nelson, David R | Correlational selection on pro- and anti-inflammatory effectors Sorci, Gabriele ; Guerreiro, Romain; Besson, Anne; Bellenger, Jérôme; Ragot, Kevin; Faivre, Bruno |

Lunch (provided) 12:00 – 1:15 pm | 'Bring your lunch' events:

SSB business meeting (Rm. 104) | SSE business meeting (Rm. 108)

Info. sessions: European Research Council Funding Opportunities (Rm. 203) | How to get published (Rm. 102)

Saturday, July 7 | 10:30 am – 12:00 noon

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|----------|---|--|--|---|
| | Molecular evolution 2 | Life history studies 2 | Life-history studies & evolutionary theory | Phylogenetics 2 |
| 10:30 am | Complete plastid genome and transcriptome sequencing of <i>Ophioglossum californicum</i> and <i>Psilotum nudum</i> reveals extensive diversification of inverted repeat boundaries and RNA editing content and provides a robust phylogeny for Monilophytes Grewe, Felix ; Guo, Wenhui; Hansen, Katie; Mower, Jeffrey | Integrating behavioural and nutritional ecology Bertram, Susan ; Morehouse, Nathan; Raubenheimer, David; Simpson, Steven; Kay, Adam | Evolution of aging revisited - High mortality rate can lead to increased longevity Chen, Hwei-yen ; Maklakov, Alexei | Big shells, little shells, hairy shells and toothy shells: phylogeny and character evolution of polygrid land snails Anderson, Frank E ; Defreitas, Nicholas; Milton, Russ; Pearce, Timothy A.; Perez, Kathryn E.; Slapcinsky, John |
| 10:45 am | Consequences of insect flight loss on molecular evolutionary rates and diversification Mitterboeck, T Fatima ; Adamowicz, Sarah J | Coordinating flowering and germination across seasonal environments: linked processed based models predict genotype and environment specific life history expression Burghardt, Liana ; Metcalf, J; Wilczek, A; Meyer, S; Donohue, K; Schmitt, J | Systemic physiological constraints: A new evolutionary theory of aging Cohen, Alan A ; Scheuerlein, Alexander | A species-level estimate of the phylogeny for all mammals using a novel hierarchical Bayesian approach Faurby, Soren ; Svenning, Jens Christian |
| 11:00 am | Reduction in the ninespine stickleback (<i>Pungitius pungitius</i>): A comparative genomics approach Stringham, Sydney ; Kronenberg, Zev; Hu, Hao; Yandell, Mark; Shapiro, Michael | Influence of life history on the transient (short-term) dynamical properties: a comparative analysis in mammal species Gamelon, Marlène ; Gaillard, Jean-Michel; Baubet, Eric; Coulson, Tim; Tuljapurkar, Shripad; Gimenez, Olivier | Evolution of aging in an heterogeneous landscape Cotto, Olivier ; Ronce, Ophélie | Identification and removal of non-phylogenetic signal helps resolve higher-level relationships in the vertebrate phylogeny Fong, Jonathan ; Brown, Jeremy; Fujita, Matt; Boussau, Bastien |
| 11:15 am | Complex molecular patterns of gene flow explain diversity with the Cape Floristic Region Tassone, Erica ; Verrelli, Brian | Genetic and environmental variance in resistance to oxidative stress: do parents matter? Losdat, Sylvain ; Helfenstein, Fabrice; Blount, Jonathan; Richner, Heinz | Seasonal mortality patterns in non-human primates: Implications for variation in selection pressures across environments Gogarten, Jan ; Brown, Leone; Chapman, Colin; Cords, Marina; Fedigan, Linda; Grine, Frederick | Sequencing of five Ascidian mitochondrial genomes using Illumina technology and mixed total DNA without barcode Huchon, Dorothee ; Rubinstein, Nimrod; Douzery, Emmanuel; Feldstein, Tamar; Shenkar, Noa; Gissi, Carmela |
| 11:30 am | UV/violet sensitivity in birds: Spectral tuning in short wavelength sensitive visual pigments of the Great bowerbird (<i>Chlamydera nuchalis</i>) and passerine ancestors van Hazel, Ilke ; Chang, Belinda S.W. | Optimal resource allocation in a serotinous plant species under different fire regimes Tonnabel, Jeanne ; Van Dooren, Tom; Ronce, Ophélie; Olivieri, Isabelle | Low genetic diversity reduces lifespan in <i>Daphnia magna</i> Lohr, Jennifer ; David, Patrice; Haag, Christoph | Anchored phylogenomics: 100s of loci for 100s of species in 2 weeks for <\$10k Lemmon, Alan ; Sandra Emme; Lemmon, Emily |
| 11:45 am | Assessing genetic diversity and molecular evolution among terrestrial mites in sub-arctic Canada Young, Monica ; Hebert, Paul DN | Not tonight honey, I need to diapause: frequency-dependent evolution of diapause propensity in codling moths Wu, Gi-Mick ; Roitberg, Bernard; Judd, Gary | Temporal variation in selection accelerates mutational decay by Muller's Ratchet Wardlaw, Alison ; Agrawal, Aneil | A phylogenomic approach to testing evolutionary hypotheses in the protozoan pathogen <i>Trypanosoma brucei</i> Sistrom, Mark ; Evans, Benjamin; Enyaru, John; Echodu, Richard; Aksoy, Serap; Caccone, Adalgisa |

Lunch (provided) 12:00 – 1:15 pm | 'Bring your lunch' events:

SSB business meeting (Rm. 104) | SSE business meeting (Rm. 108)

Info. sessions: European Research Council Funding Opportunities (Rm. 203) | How to get published (Rm. 102)

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|---|--|--|---|
| <p>Sexual selection & mating systems 2</p> <p>The contributions of male mate choice to the maintenance of female polymorphism in damselflies</p> <p>Fox, Jennette; Iserbyt, Arne; Van Dongen, Stefan; Sherratt, Tom; Hassall, Christopher</p> | <p>Mating systems & sexual selection 2</p> <p>Male mate choice copying and the audience effect in the Trinidadian guppy, <i>Poecilia reticulata</i></p> <p>Auld, Heather; Godin, Jean-Guy</p> | <p>Hybridization/speciation 1</p> <p>Three floral odorants contribute to differential pollinator attraction between two species of monkeyflowers (<i>Mimulus</i>)</p> <p>Byers, Kelsey J.R.P.; Riffell, Jeffrey A.; Bradshaw, H.D. "Toby", Jr.</p> | <p>Species interactions & coevolution 2</p> <p>Parasites as agents of selection in Eurasian perch (<i>Perca fluviatilis</i>)? Heterogeneity in local parasite communities is mirrored in MHC classII gene diversity</p> <p>Behrmann-Godel, Jasminca</p> |
| <p>Social environment and time affect the multivariate attractiveness of cuticular hydrocarbons in male <i>Drosophila serrata</i></p> <p>Gershman, Susan; Rundle, Howard D.</p> | <p>The ecology of sexual conflict: background mortality rate can modulate male effects on female fitness</p> <p>Bonduriansky, Russell</p> | <p>Mating patterns at an artificial zone of secondary contact between two allopatric and highly divergent populations of <i>Arabidopsis lyrata</i> spp. Petrea</p> <p>Guzinski, Jaromir; Savolainen, Outi</p> | <p>Gene-by-gene interactions in the context of average temperature, heat shock and resistance against parasitoids in an aphid/endosymbiont system</p> <p>Cayetano, Luis; Vorburger, Christoph</p> |
| <p>The energetics of mate-guarding in wild male long-tailed macaques (<i>Macaca fascicularis</i>)</p> <p>Girard-Buttoz, Cédric; Heistermann, Michael; Agil, Muhammad; Ahmad Fauzan, Panji; Engelhardt, Antje</p> | <p>Genital diversity and sexual arms races in the leiobunine harvestmen (Opiliones: Sclerosomatidae)</p> <p>Burns, Mercedes; Shultz, Jeffrey W.</p> | <p>Contrasting patterns of origins and population connectivity in Arkansas versus California weedy rice</p> <p>Lawton-Rauh, Amy; Burgos, Nilda; Fischer, Albert</p> | <p>Specificity of the parasite Escovopsis among two sympatric species of Cyphomyrmex fungus-growing ants</p> <p>Chiang, Stephanie; Gerardo, Nicole</p> |
| <p>Evidence for hunger-driven hybridization in a genus of sexually cannibalistic insects (<i>Cyphoderris</i> spp.)</p> <p>Judge, Kevin; De Luca, Paul; Van Eindhoven, Jennifer; Mason, Andrew; Morris, Glenn</p> | <p>Primary & secondary sexual characters in alternative reproductive tactics of Chinook salmon: Associations with seminal plasma biochemistry, androgens, & the maturation-inducing steroid</p> <p>Butts, Ian; Love, O; Farwell, M; Flannery, E; Ciereszko, A; Pitcher, T</p> | <p>Interspecific tests of allelism reveal the evolutionary timing of reproductive isolation</p> <p>Sherman, Natasha; Victorine, Anna; Moyle, Leonie</p> | <p>Host range of the Spiroplasma defensive bacterial endosymbiont in <i>Drosophila</i> and transfer of phenotypic effects</p> <p>Haselkorn, Tamara; Cockburn, Sarah; Hamilton, Finn; Perlman, Steve; Jaenike, John</p> |
| <p>When parental care evolves: an empirical evaluation of recent theory</p> <p>Monroe, Melanie; Alonzo, Suzanne</p> | <p>Covariance among pre-mating, postcopulatory and viability fitness components in <i>Drosophila melanogaster</i> and their influence on paternity measurement</p> <p>Droge-Young, Elizabeth M.; Manier, Mollie K.; Lüpold, Stefan; Belote, John M.; Pitnick, Scott</p> | <p>Population differentiation and reproductive isolation associated with incipient speciation in <i>Mimulus aurantiacus</i></p> <p>Sobel, James; Streisfeld, Matthew</p> | <p>Evolutionary origins and stability of Proteobacterial mutualisms</p> <p>Sachs, Joel L.; Skophammer, Ryan; Bansal, Nidhanjali; Stajich, Jason</p> |
| <p>Changing nutrient dynamics and the relaxation of sexual selection: effects of human-altered nitrogen inputs on butterfly mate choice</p> <p>Snell-Rood, Emilie; Espeset, Anne; White, William</p> | <p>Ovarian fluid mediates sperm velocity and paternity in alternative reproductive tactics of Chinook salmon</p> <p>Pitcher, Trevor; Flannery, Erin; Heath, Daniel</p> | <p>Does reproductive interference limit coexistence? Insight from an asexual complex</p> <p>Whitton, Jeannette; Sears, Christopher; Maddison, Wayne</p> | <p>Incongruent distributions of ectosymbionts of an invading crayfish: environmental barriers, or did some symbionts miss the boat?</p> <p>Williams, Bronwyn; Proctor, Heather</p> |

Lunch (provided) 12:00 – 1:15 pm | 'Bring your lunch' events:

SSB business meeting (Rm. 104) | SSE business meeting (Rm. 108)

Info. sessions: European Research Council Funding Opportunities (Rm. 203) | How to get published (Rm. 102)

Saturday, July 7 | 1:15 – 2:45 pm

| | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 |
|--|--|---|---|--|
| | SSB Symposium - New phylogenetic methods for quantitative trait evolution | ESEB Symposium - Influential symbionts: Master manipulators of adaptive host behavior | Adaptation 3 | Adaptation & exp. evolution 2 |
| 1:15 pm | Introduction and asymptotic behavior of trait evolution models under drift and stabilizing selection Ané, Cécile | A natural history of griffons, chimeras & zombies Hughes, David | The evolution of countershading appearance in ruminants suggests an effective self-shadow concealment function Allen, William ; Baddeley, Roland; Cuthill, Innes; Scott-Samuel, Nicholas | Competition and the origins of novelty: experimental evolution of niche-width expansion in a virus Bono, Lisa M. ; Gensel, Catharine L.; Pfennig, David W.; Burch, Christina L. |
| 1:30 pm | | Gut microbe- host interactions: Who controls who? Pettersson, Sven | Can phenotypic plasticity buffer changing thermal environments? Caldwell, Amanda Jane ; While, Geoff; Wapstra, Erik | Population size affects the process, but not the results, of adaptation. What it means when a test of the most common assumption about the distribution of fitness effects shows it is incorrect Delaney, Nigel ; Marx, Christopher |
| 1:45 pm | Placing fossils on molecular phylogenies with Brownian motion or Ornstein-Uhlenbeck models of continuous trait evolution Felsenstein, Joseph | | The quantitative genetics of a complex trait under continuous directional selection Careau, Vincent ; Wolak, Matthew E.; Carter, Patrick A.; Garland Jr, Theodore | Is a Jack-of-All-Trades truly a master of none? Testing the limits of adaptation to multiple environments Satterwhite, Rebecca ; Cooper, Tim F |
| 2:00 pm | | Bacterial social behaviours are driven by symbiotic mobile genetic elements Brown, Sam | A comparative analysis of the evolution of imperfect mimicry Penney, Heather; Hassall, Christopher ; Skevington, Jeffrey; Abbott, Kevin; Sherratt, Tom | Quantifying the evolvability of an antibiotic resistance enzyme Schenk, Martijn; Salverda, Merijn; Szendro, Ivan; Krug, Joachim; de Visser, Arjan |
| 2:15 pm | Phylogenetic discriminant analysis in ecomorphology: a case study on the inference of diel activity patterns and feather color in dinosaurs Schmitz, Lars | | Fitness consequences and selective mechanisms favoring local nest morphologies in Yellow Warblers Rohwer, Vanya ; Martin, Paul | Adaptation in <i>E. coli</i> : Adaptive dynamics and epistasis determine propensity to diversify Schick, Alana ; Doebeli, Michael |
| 2:30 pm | | Carrying the right symbiont: how nematode competitive success is influenced by their bacterial symbionts Bashey-Visser, Farrah | Digging for the offspring: Multiple convergent evolution of digging structures in female praying mantises (Insecta: Mantodea) Wieland, Frank ; Milledge, Graham; Svenson, Gavin J. | Evolution of predatory cannibalism in <i>Drosophila melanogaster</i> Vijendravarma, Roshan ; Narasimha, Sunitha; Kawecki, Tadeusz |
| Afternoon coffee break 2:45 – 3:15 pm | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|--|---|---|---|
| Behaviour & social evolution 3 | Community & conservation ecology | Plant ecological genetics | Ecology/evolution of disease 2 |
| The fast and the furious: does aggressive behaviour promote rapid evolution of an island bird population? Clegg, Sonya ; Owens, Ian | Phylogenetic community structure of sub-Arctic freshwater macroinvertebrates Boyle, Elizabeth ; Adamowicz, Sarah | Ecology and genetics of adaptation in <i>Arabidopsis thaliana</i> in the native range Ågren, Jon ; McKay, John; Schemske, Douglas | Information use and plasticity in the reproductive decisions of malaria parasites Carter, Lucy ; Pollitt, Laura; Schneider, Petra; Reece, Sarah |
| "Give me the keys!" Dependent kids drive the evolution of parental care Hale, Rebecca ; Travis, Joseph | Abiotic and biotic factors mediate the impact of an introduced predator (<i>Bythotrephes longimanus</i>) Jokela, Anneli ; Arnott, Shelley; Beisner, Beatrix | The genetics of shifting thresholds: photoperiod cues, flowering, and adaptation to elevation in <i>Mimulus</i> Blackman, Benjamin ; Willis, John | Host sexual dimorphism and parasite adaptation Duneau, David ; Lazzaro, Brian; Ebert, Dieter |
| The role of inheritance and innate responsiveness in the learning of antipredator behavior in salmonids Koskinen, Jussi ; Kortet, Raine; Hyvärinen, Pekka; Hirvonen, Heikki | Alpha, beta and gamma diversity in coastal heathland: the role of spatial environmental heterogeneity Lundholm, Jeremy ; Schamp, Brandon; Oberndorfer, Erica | Wild oats in a brave new world: different mixtures of maternal haplotypes within populations in California demonstrate more polymorphism than expected in this classic system of ecotypic divergence Crosby, K ; Stokes, TO.; Latta, RG | The epidemiology of <i>Phytophthora ramorum</i> and <i>P. kernoviae</i> at two outbreak sites in Scotland Elliot, Matthew ; Meagher, Thomas; Schlenzig, Alexandra; Harris, Catriona |
| Cognitive ability, foraging behaviour, and reproductive success in a wild population of great tits Morand-Ferron, Julie ; Cole, Ella F.; Hinks, Amy; Quinn, John L. | Does habitat disturbance have negative impacts on plant reproductive success? McKechnie, Irene ; Sargent, Risa | Evidence for balancing selection maintaining mitochondrial haplotype diversity in <i>Labellia</i> Delph, Lynda ; Montgomery, Ben | Cost of reproduction in the domestic dog Hoffman, Jessica ; Creevy, Katee; Promislow, Daniel |
| Acoustic mate attraction calling, total body energy stores, and energy metabolism in the muscles of two species of field cricket Thomson, Ian ; Darveau, Charles; Bertram, Susan | Elucidating the population structure of the ubiquitous arbuscular mycorrhizal fungal species <i>Rhizophagus irregularis</i> : implications for fungal community assembly Redecker, D ; Börstler, B; Thiéry, O; Peyret-Guzzon, M; Mansuy, C; Stockinger, H | On the molecular genetic basis of trichome density variation in <i>Arabidopsis thaliana</i> Symonds, Vaughan | Adaptive maternal effects to resist infectious disease Little, Tom |
| On the coevolution of male courtship sequence and female mating characters in "coercive" <i>Gambusia</i> Wang, Silu ; Peden, Alexander; Cummings, Molly | Ecological determinants of genetic population structure in the Canada Lynx Row, Jeff ; Gomez, Celine; Koen, Erin; Bowman, Jeff; Murray, Dennis; Wilson, Paul | Consequences of plant clonality for sex ratios and sexual system evolution Yakimowski, Sarah ; Barrett, Spencer | An experimental test of the transmission-virulence trade-off hypothesis in a plant virus Michalakakis, Yanniss ; Doumayrou, Juliette; Froissart, Remy |
| Afternoon coffee break 2:45 – 3:15 pm | | | |

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|--|--|---|---|---|
| | Genomics 1 | Life history studies 3 | Molecular evolution 3 | Phylogenetics 3 |
| 1:15 pm | <p>Transposable element evolution in selfing and outcrossing <i>Capsella</i></p> <p>Ågren, J Arvid; Platts, Adrian E; Wright, Stephen I</p> | <p>Comparative Historical Demography of Migratory and Nonmigratory Birds from the Caribbean Island of Hispaniola</p> <p>Fahey, Anna; Ricklefs, Robert; Latta, Steven; DeWoody, Andrew</p> | <p>Origins, diversification and host adaptation of the T3SS injectisome from the bacterial flagellum</p> <p>Abby, Sophie S; Rocha, Eduardo PC</p> | <p>Molecular phylogeny of bamboo species in the eastern Himalayan region of northeast India</p> <p>Barbhuiya, A.R.; Singha, L.B.; Khan, M.L.; Dayanandan, S.</p> |
| 1:30 pm | <p>Ecological functional genomics of the model pathogen <i>Bacillus thuringiensis</i> during experimental coevolution with its nematode host <i>Caenorhabditis elegans</i></p> <p>Branca, Antoine; Sheppard, A Rosenstiel, P; Bornberg-Bauer, E; Schulenburg, H</p> | <p>Paths of selection on <i>Arabidopsis thaliana</i> life history QTL in different natural environments</p> <p>Fournier-Level, Alexandre; Wilczek, Amity; Cooper, Martha; Remington, David; Schmitt, Johanna</p> | <p>Evolution at a single gene causes a difference in recombination rate between two <i>Drosophila</i> species</p> <p>Cattani, Victoria; Kingan, Sarah; Presgraves, Daven</p> | <p>Assessing phylogenetic conservatism in plant phenology</p> <p>Davies, Jonathan; Wolkovich, Elizabeth; Kraft, Nathan</p> |
| 1:45 pm | <p>Comparative genomics and bacterial evolution of <i>Pseudomonas aeruginosa</i> epidemic strains in cystic fibrosis chronic infections</p> <p>Jeukens, Julie; Boyle, Brian; Kukavica-Ibrulj, Irena Winstanley, Craig; Levesque, Roger C.</p> | <p>Primary sex ratios and maternal investment in mountain pine beetles</p> <p>Lachowsky, Leanna; Reid, Mary</p> | <p>Multiple functionally divergent and conserved copies of alpha tubulin in bdelloid rotifers</p> <p>Eyres, Isobel; Frangedakis, Eftychios; Fontaneto, Diego; Boschetti, Chiara; Tunnacliffe, Alan; Barraclough, Timothy</p> | <p>Hidden diversity in the Andes: Phylogeography of cryptic speciation in montane marsupials</p> <p>Giarla, Thomas</p> |
| 2:00 pm | <p>Estimating genome-wide heterozygosity: how many and what type of markers?</p> <p>Miller, Joshua; Malenfant, Rene; Davis, Corey; Poissant, Jocelyn; Hogg, John; Coltman, David</p> | <p>The effect of high temperature stress on reproductive success of yellow dung flies</p> <p>Laugen, Ane T.</p> | <p>Polymorphism and selection in low complexity protein sequences</p> <p>Haerty, Wilfried; Golding, Brian</p> | <p>Phylogenetic and biogeographic relationships of the Sander pikeperches (Teleostei: Percidae): Patterns across two continents</p> <p>Haponski, Amanda; Stepien, Carol</p> |
| 2:15 pm | <p>Common physiological themes across arthropod stress and dormancy responses revealed through comparative functional genomics</p> <p>Ragland, Gregory</p> | <p>Evolution of accelerated aging after the transition to multicellularity</p> <p>Ratcliff, William; Denison, R. Ford; Fankhauser, Johnathan; Travisano, Michael</p> | <p>How to make a whale: molecular signature of positive selection in cetacean genome</p> <p>Nery, Mariana; Vergara, Eva; Opazo, Juan C.</p> | <p>A phylogeographical analysis of Woodland caribou in Canada using mtDNA control region sequence data</p> <p>Klutsch, Cornelya; Manseau, Micheline; Wilson, Paul</p> |
| 2:30 pm | <p>Evolution of mitochondrial stability and the underlying recombinational machinery in the genus <i>Silene</i></p> <p>Triant, Deborah A.; Taylor, Douglas R.</p> | <p>Seasonal selection on epistatic life history loci in <i>Arabidopsis thaliana</i></p> <p>Sellamuthu, Reena; Korves, Tonia; Cooper, Martha; Reymond, Matthieu; Schmitt, Johanna</p> | <p>A Eumetazoan origin for the animal Taste 1 receptor gene family</p> <p>Plachetzki, David</p> | <p>Multiple origins of dioecy or multiple origins of hermaphroditism in Australian <i>Lawrenzia</i> (Malvaceae)?</p> <p>Tate, Jennifer; Skema, Cynthia; McLay, Todd; Wagstaff, Steven; Barker, Robyn; Barker, Bill</p> |
| Afternoon coffee break 2:45 – 3:15 pm | | | | |

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|--|---|---|
| Education 1 | Sexual selection & experimental evolution | Hybridization / speciation 2 | Sexual selection & mating systems 3 |
| <p>Teen Science Scholars at the Denver Museum of Nature & Science: Nurturing the next generation of scientific leaders</p> <p>Cushing, Paula; Stucky, Richard; Garneau, Nicole; Miller, Ian; Petrie, Lesley</p> | <p>Ecology and sexual conflict in <i>Drosophila melanogaster</i></p> <p>Arbuthnott, Devin; Agrawal, Aneil; Rundle, Howard D.</p> | <p>Rapid evolution of mitochondrial ribosomal proteins</p> <p>Barreto, Felipe; Burton, Ronald</p> | <p>The segregation of female mate choice in a pair of cichlids in Lake Malawi, East Africa</p> <p>Ding, Baoqing; Daugherty, Daniel.W.; Howe, Aimee; Husemann, Martin; Danley, Patrick</p> |
| <p>Evo-Devo in the classroom: target concepts and students' challenges</p> <p>Hiatt, Anna; Perez, Kathryn E.; Davis, Greg; Trujillo, Caleb; Terry, Mark; Price, Rebecca</p> | <p>Runaway sexual selection leads to good genes</p> <p>Chandler, Christopher; Ofria, Charles; Dworkin, Ian</p> | <p>Chemosensory genes and host race formation in pea aphids</p> <p>Butlin, Roger; Smadja, Carole; Duvaux, Ludovic; Ferrari, Julia</p> | <p>Exploring the male competition fitness landscape with the expanded multivariate phenotypic distribution of a QTL mapping population</p> <p>Keagy, Jason; Lettieri, Liliana; Boughman, Janette</p> |
| <p>Evolution in the News: bringing evolution into the classroom through popular media stories</p> <p>Jenkins, Kristin; Thanukos, Anna</p> | <p>Cracking the egg: the evolution of ova defensiveness</p> <p>Firman, Renee</p> | <p>Genome-wide patterns of genetic divergence in response to host-associated selection experiments in <i>Rhagoletis pomonella</i> host races</p> <p>Egan, Scott P.; Assour, Lauren; Emrich, Scott; Nosil, Patrik; Feder, Jeff L.</p> | <p>Elaborate weapons: the costs of producing and carrying horns in a giant rhinoceros beetle</p> <p>McCullough, Erin</p> |
| <p>The San Diego Biodiversity Project: Teaching biodiversity across the undergraduate curriculum</p> <p>Kohn, Joshua; Henter, Heather; Roy, Kaustuv; Butler, Mandy; Mel, Stephanie; Rouse, Gregory</p> | <p>Resolving sexual conflict: evolution under monogamy feminizes populations of <i>Drosophila melanogaster</i></p> <p>Hollis, Brian; Kaweckki, Tadeusz; Houle, David</p> | <p>Using phased haplotypes to study the genomic architecture of reproductive isolation in the lake whitefish (<i>Coregonus clupeaformis</i>)</p> <p>Gagnaire, Pierre-Alexandre; Bernatchez, Louis</p> | <p>Trade-offs and signal performance during close-range vocal competition in gray treefrogs</p> <p>Reichert, Michael; Gerhardt, Carl</p> |
| <p>Presenting evolution by natural selection to students at a Christian University</p> <p>Niedzwiecki, John H.</p> | <p>Evolution of mate-harm and sperm competition in response to varying levels of intersexual conflict</p> <p>Nandy, Bodhisatta; Vanika, Gupta; Zeeshan, Syed Ali; Chakraborty, Pratip; Prasad, Nagaraj Guru</p> | <p>Hybrid incompatibility loci show a pattern of pervasive antagonistic epistasis</p> <p>Moyle, Leonie; Nakazato, Takuya; Muir, Christopher; Josway, Sarah</p> | <p>Flexible mate choice in response to extrinsic and intrinsic cues: Effects of mate availability and time of season</p> <p>Tinghitella, Robin; Weigel, Emily; Boughman, Janette</p> |
| <p>Evolution case studies integrating concepts across the biology curriculum</p> <p>Smith, James; White, Peter; Heidemann, Merle</p> | <p>Mating system affects population performance and extinction risk under environmental challenge</p> <p>Plesnar, Agata; Skrzynecka, Anna; Prokop, Zofia; Radwan, Jacek</p> | <p>Hybridization and the origins of inversion polymorphism in the mimicry radiation of <i>Heliconius</i> butterflies</p> <p>Whibley, Annabel; Frezal, Lise; Nowell, Reuben; Nadeau, Nicola J; Davey, John; Joron, Mathieu</p> | <p>Does phenotypic plasticity in sperm affect offspring performance?</p> <p>Zajitschek, Susanne; Hotzy, Cosima; Immler, Simone</p> |

Afternoon coffee break | 2:45 – 3:15 pm

Saturday, July 7 | 3:15 – 4:45 pm

| | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 |
|--|--|---|---|--|
| | SSB Symposium - New phylogenetic methods for quantitative trait evolution | ESEB Symposium - Influential symbionts: Master manipulators of adaptive host behavior | Adaptation 4 | Adaptation & gene flow |
| 3:15 pm | Detecting evolutionary regime shifts with comparative phylogenetics Boettiger, Carl | Capturing EVE; our story as told by viruses Poss, Mary | The roles of competition and enemies in edaphic specialization in a Californian clade of mustards (<i>Streptanthus</i>) Cacho, N. Ivalu ; Strauss, Sharon | Testing effects of gene flow on traits, fitness, and population dynamics in Trinidadian guppies Fitzpatrick, Sarah W ; Angeloni, Lisa; Broder, Dale; Ghalambor, Cameron; Torres-Dowdall, Julian; Handelsman, Corey; Ruell, Emily; Funk, Chris |
| 3:30 pm | | | Resolution of sexual antagonism in a experimental population of <i>D. melanogaster</i> Collet, Julie ; Fuentes, Sara; Hesketh, Jack; Fowler, Kevin; Reuter, Max | The balance between selection and gene flow evaluated in threespine stickleback Muttalib, Shahin ; Hendry, Andrew |
| 3:45 pm | The various sources of error and their effects on phylogenetic comparative analyses Revell, Liam J. | Control of L1 retrotransposition in the brain Marchetto, Carol | Genetic constraints and the evolution of a species' range in multiple phenotypic dimensions Guillaume, Frederic | Divergence by depth in a Caribbean candelabrum coral: Plasticity and long pre- reproductive selection Prada, Carlos ; Michael, Hellberg |
| 4:00 pm | | | Influence of a novel body plan: diversification of genitalia and body shape in livebearing fish Langerhans, Brian ; Rosa- Molinar, Eduardo | Extraordinarily rapid life history divergence between <i>Cryptasterina</i> sea star species Puritz, Jonathan B ; Keever, Carson C; Addison, Jason A; Byrne, Maria; Hart, Michael W; Toonen, Robert J |
| 4:15 pm | Approximate Bayesian computation for continuous characters O'Meara, Brian C. | <i>Wolbachia</i> - master manipulators of sexual behavior in flies Schneider, Daniela | Developmental plasticity: compartmentalization of hormone effects on a plastic phenotype Mateus, Ana Rita ; Marques-Pita, Manuel; Oostra, Vicencio; Brakefield, Paul; Zwaan, Bas; Beldade, Patrícia | Microgeographic adaptation in spotted salamanders: the relative influence of selection, gene flow, and space Richardson, Jonathan ; Urban, Mark |
| 4:30 pm | | | Temperature adaptation at the genetic level in boreal black spruce Prunier, Julien ; Gérardi, Sebastien; Laroche, Jérôme; Beaulieu, Jean; Bousquet, Jean | <i>Pseudomonas syringae</i> 1.5Mb mega plasmid pPla107 is a potential genetic super mover Romanchuk, Artur ; Baltrus, David |
| SSB Presidential Address – David Mindell 4:45 – 5:45 pm, Canada Hall 2-3 SSB Mixer 5:45 -7:30 pm, Trillium Ballroom Poster session #1 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom Evolution film festival 9:30 – 10:30 pm, Rm. 208 | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|--|--|--|--|
| Microbial evolution, diversity & behaviour | Conservation biology 1 | Ecological genetics 2 | Ecology/evolution of disease 3 |
| Farming amoebae, like human farmers, protect their crops from competitors Brock, Debbie; Queller, David; Strassmann, Joan | Up high and down low: elevation strongly influences genetic structure in boreal toads (<i>Bufo boreas boreas</i>) Addis, Brett; Lowe, Winsor; Allendorf, Fred | Fine-scale population genetic structure of a generalist amphibian on barrier islands in the southeastern U.S. Barrow, Lisa N. | Seasonal dynamics of influenza viruses: interplay between H3N2 and H1N1 Aris-Brosou, Stephane |
| Exploitation or altruism: analyzing the cannibalistic sexual cycle of the social amoeba <i>Dictyostelium discoideum</i> Douglas, Tracy; Queller, David; Strassmann, Joan | Considering how plastic and genetic/maternal effects might influence demographic subsidies that enhance the ability of native species to persist with detrimental invaders Derry, Alison; Kestrup, Åsa; Hendry, Andrew | Comparing scales of local genetic adaptation to invading predators by gastropod prey with high and low dispersal potential Boulding, Elizabeth | The adaptation of West Nile virus and the evolution of virulence in a mosquito vector Ciota, Alexander; Van Slyke, Greta Ehrbar, Dylan; Mattachero, Amy; Kramer, Laura |
| Causes and consequences of intra-kin group variation: social interactions among bacterial clones Kraemer, Susanne; Velicer, Gregory | Comparing population genetics and demography of aggregating reef fishes Jackson, Alexis; Semmens, Brice; Bernardi, Giacomo | Estimating connectivity in changing landscapes with spatially constrained genetic networks Cyr, Frédéric; Girard, Philippe; Angers, Bernard | Experimental evolution of resistance to antimicrobial peptides modulates pathogen persistence in vivo Dobson, Adam; Purves, Joanne; Rolff, Jens |
| Quantifying frequency-dependent fitness effects in evolving microbial populations Ribeck, Noah; Lenski, Richard E. | Impacts of introgressive hybridization due to stocking on gene expression in wild brook charr (<i>Salvelinus fontinalis</i>) Lamaze, Fabien; Garant, Dany; Bernatchez, Louis | Genetic structure and intraspecific phenotypic variation in muskrat (<i>Ondatra zibethicus</i>) populations Laurence, Sophie; Schulte-Hostedde, Albrecht | Paleozoic origin of insect large dsDNA viruses Herniou, Elisabeth; Theze, Julien Periquet, Georges; Drezen, Jean-Michel |
| Geographic variation of human gut microbiome composition Suzuki, Taichi; Worobey, Michael; Nachman, Michael | Forty years of evolution of neutral and adaptive genetic diversity in Atlantic salmon population Le Cam, Sabrina; Ducret, Valérie; Evanno, Guillaume | Landscape genetics of northern pike (<i>Esox lucius</i>) in St. Lawrence River – Lake Ontario System Ouellet-Cauchon, Geneviève; Mingelbier, Marc; Bernatchez, Louis | Evolution and biogeography of an emerging quasispecies: diversity patterns of the fish viral Hemorrhagic Septicemia virus (VHSV) Pierce, Lindsey; Stepien, Carol |
| The evolution of cooperation in chemotactic bacteria in spatial networks: microfluidic design and model Wong, Edward; Gonzalez, Andrew; Loreau, Michel | Do the habitats occupied by small and large populations consistently differ in nature? Wood, Jacquelyn L.A.; Fraser, Dylan J. | The genetic pattern consequences of avian seed dispersal for Valley Oak recruits Smouse, Peter; Sork, Victoria; Scofield, Douglas; Grivet, Delphine | Phenotypic evolution in a spatially structured population of bacteriophages Roychoudhury, Pavitra; Krone, Steve |
| SSB Presidential Address – David Mindell 4:45 – 5:45 pm, Canada Hall 2-3 SSB Mixer 5:45 -7:30 pm, Trillium Ballroom Poster session #1 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom Evolution film festival 9:30 – 10:30 pm, Rm. 208 | | | |

Saturday, July 7 | 3:15 – 4:45 pm

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|----------------|---|---|---|---|
| | Genomics & <i>Drosophila</i> | Life history studies 4 | Molecular evolution 4 | Phylogeography 1 |
| 3:15 pm | Evolution of dosage compensation on a young sex chromosome in <i>Drosophila Miranda</i> Ellison, Christopher ; Gorchakov, Andrey; Alekseyenko, Artyom; Kuroda, Mitzi; Bachtrog, Doris | It pays to be faithful: evidence for enhanced survival associated with mate fidelity in wild great tits Culina, Antica ; Shelly, Lachish; Sheldon, Ben | Temperature effects trans-interactions at the MEN locus Bing, Xinyang ; Merritt, Thomas | When continents divide: Comparative phylogeography of reef fishes from the Red Sea and Indian Ocean DiBattista, Joseph ; Berumen, Michael; Gaither, Michelle; Rocha, Luiz; Skillings, Derek; Bowen, Brian |
| 3:30 pm | Genomic satellite DNA repeats and small RNAs: Responder rasiRNAs in the <i>Drosophila melanogaster</i> testis Larracuente, Amanda ; Presgraves, Daven | The cost of trying: weak correlations among life-history components in male ungulates Festa-Bianchet, Marco | Estimating gene gain and loss rates in the presence of error in genome assembly and annotation Hahn, Matthew | Geographic variation of colour morphs in the Australian tawny dragon lizard, <i>Ctenophorus decresii</i> McLean, Claire ; Stuart-Fox, Devi; Moussalli, Adnan |
| 3:45 pm | Naturally Occurring Genetic Variation of <i>Drosophila</i> Heart Rate Nye, Jessica ; Mackay, Trudy F. C. | Adaptation to environmental unpredictability: phenotypic plasticity and bet-hedging in egg diapause Furness, Andrew ; Lee, Kevin; Reznick, David | The genetics of phenotypic variation in pigmentation traits in <i>Drosophila melanogaster</i> Ng, Rocio ; True, John | Piecing together demographic models: an example from <i>Plethodon idahoensis</i> Pelletier, Tara A ; Carstens, Bryan C |
| 4:00 pm | Variation in Genome Structure in <i>Drosophila yakuba</i> Rogers, Rebekah L ; Julie M. Cridland; Thornton, Kevin R | Colony life history and lifetime reproductive success of red harvester ant colonies Gordon, Deborah ; Pilko, Anna; Ingram, Krista | Interactions of NADP-reducing enzymes across environmental conditions: A model of biological complexity Rzezniczak, Teresa Z. ; Merritt, Thomas J. S. | Phylogeography of <i>Araneus guttatus</i> (Araneae, Araneidae) in Brazilian rainforests Peres, Elen Arroyo ; Solferini, Vera Nisaka |
| 4:15 pm | The history of the <i>Drosophila</i> dot chromosome revealed by Next-Gen sequencing of Dipterans Vicoso, Beatriz ; Bachtrog, Doris | Live fast, die young: Heterozygote disadvantage erodes songbird genetic diversity MacDougall-Shackleton, Beth ; Kewin, Jenna; King, James; MacDougall-Shackleton, Scott | Using microbes to study the evolution of novel genetic codes and their genomic consequences Taylor, Tiffany B. ; Jackson, Robert W.; Brockhurst, Michael A.; Johnson, Louise J. | A posteriori tests of phylogeographic hypotheses Sukumaran, Jeet; Rodrigo, Allen |
| 4:30 pm | The evolution of microRNA expression during <i>Drosophila</i> metamorphosis Yeh, Shu-Dan ; von Grotthuss, Marcin; Xia, Xiao-Qin; Ranz, Jose M. | | Using paleogenomics to study the evolution of gene families: origin and duplication history of the Relaxin family hormones and their receptors Yegorov, Sergey; Good, Sara | |

SSB Presidential Address – David Mindell | 4:45 – 5:45 pm, Canada Hall 2-3

SSB Mixer | 5:45 -7:30 pm, Trillium Ballroom

Poster session #1 | 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom

Evolution film festival | 9:30 – 10:30 pm, Rm. 208

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|---|---|---|--|
| Education 2 | Speciation / hybridization 1 | Hybridization / speciation 3 | Sexual selection & mating systems 4 |
| Concept inventories to assess student understanding of evolution: genetic drift, population-thinking and evo-devo Perez, Kathryn ; Price, Rebecca | The potential of symbiotic <i>Wolbachia</i> to trigger cytoplasmic incompatibilities in tsetse fly inter-species hybrids Schneider, Daniela I ; Garschall, Kathrin I; Parker, Andrew G; Abd-Alla, Adly MM; Miller, Wolfgang J | Abiotic processes driving genetic diversity peaks Alcala, Nicolas ; Streit, Daniela; Goudet, Jérôme; Vuilleumier, Séverine | Sexy males versus caring fathers: the joint evolution of ornamentation and paternal care Baldauf, Sebastian A. ; Engqvist, Leif; Weissing, Franz Josef |
| The knowledge, acceptance, understanding trifacta: issues in university-level evolution education Rice, Justin ; Adams, Dean; Colbert, James | The evolution of reproductive isolation in <i>Caenorhabditis nematodes</i> Cutter, Asher | A test of genetic theories underlying Haldane's Rule with haplodiploids Beukeboom, Leo ; Koevoets, Tosca; Van de Zande, Louis | Condition dependence of female sexual traits in the African stalk-eyed fly <i>Diasemopsis meigenii</i> Chapman, Nadine ; Pomiankowski, Andrew; Fowler, Kevin |
| | The moths watch - Observing timing differences in <i>Spodoptera frugiperda</i> strains on a molecular level Haenniger, Sabine ; Schoefl, Gerhard; Gebauer-Jung, Steffi; Vogel, Heiko; Heckel, David G.; Groot, Astrid T. | Multigenerational outcrossing effects on embryonic traits between divergent wild and domesticated Atlantic salmon Debes, Paul ; Hutchings, Jeffrey; Fraser, Dylan | Genetic basis and fitness effects of a sexually selected sperm trait in deer mice Fisher, Heidi ; Jacobs-Palmer, Emily; Hoekstra, Hopi |
| | Differential introgression reveals candidates for selection across a spruce (<i>Picea sitchensis</i> x <i>P. glauca</i>) hybrid zone Hamilton, Jill ; Lexer, Christian; Aitken, Sally | Insights into the evolutionary history of polyploid plants: potential of Next-generation sequencing methods Elvinger, Nora ; Popp, Magnus Colling, Guy; Brochmann, Christian; Mardulyn, Patrick | Sexual selection enables long-term coexistence despite ecological equivalence M'Gonigle, Leithen K ; Mazzucco, Rupert,; Otto, Sarah P; Dieckmann, Ulf |
| | Habitat isolation in a sympatric stickleback species pair Southcott, Laura ; Schluter, Dolph | Temporal differentiation dynamics at a population boundary in an exploited marine fish under conservation concern Roy, Denis ; Hurlbut, Thomas R.; Ruzzante, Daniel E. | Bright lights and bling: An integrative view of sexual selection in fireflies South, Adam ; Lewis, Sara |
| | Consequences of heterospecific matings on fertility in <i>Caenorhabditis nematodes</i> Ting, Janice J ; Leung, Gemma; Shin, Julia; Cutter, Asher D | Back to the future in speciation: the genetics of host race formation in western populations of <i>Rhagoletis pomonella</i> Sim, Sheina ; Egan, Scott; Feder, Jeffrey | Linking nutrition and sexual selection across life stages in a model butterfly system Tigeros, Natasha ; Lewis, Sara |

Saturday afternoon 2

SSB Presidential Address – David Mindell | 4:45 – 5:45 pm, Canada Hall 2-3
SSB Mixer | 5:45 -7:30 pm, Trillium Ballroom
Poster session #1 | 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom
Evolution film festival | 9:30 – 10:30 pm, Rm. 208

Sunday, July 8 | 8:30 – 10:00 am

| | | Canada Hall 2-3 | Rm. 214 | 108 | Rm 201 | Rm. 202 |
|---|---|---|---|--|--|---|
| | | CSEE Symposium – The structure & dynamics of ecological networks: from genes to ecosystems | SSB Mayr Symposium | | Adaptation 5 | Adaptation & genomics |
| 8:30 am | How to test hypotheses using graphs | | Bayesian selection of nucleotide substitution models and their site assignments Wu, Chieh-Hsi | Expanding SSE's Education Activities (see p. 38 for details) | Adaptive synonymous mutations in an experimentally evolved population of <i>Pseudomonas fluorescens</i> Bailey, Susan F. ; Kassen, Rees | Evolution by accident: genomic and phenotypic change during the laboratory domestication of <i>Methylobacterium extorquens</i> AM1 Carroll, Sean Michael ; Xue, Katherine; Roth, Anna; Ding, Michael; Marx, Christopher |
| 8:45 am | Fortin, Marie-Josée | Ecological opportunity and sexual selection together predict adaptive radiation Wagner, Catherine E. | An in-vitro system for experimental evolution Collins, Sinead | | Predation response of <i>Vibrio fischeri</i> biofilms to protozoan bacteriovores Chavez, Alba ; Erken, Martina; McDougald, Diane; Nishiguchi, Michele | |
| 9:00 am | Comparing methods for comparing networks | A novel Bayesian framework to estimate diversification rates reveals the effect of key innovations in the Neotropical subfamily Bromelioideae (Bromeliaceae) Silvestro, Daniele | Evolutionary rescue of sexual and asexual populations in a deteriorating environment Lachapelle, Josianne ; Bell, Graham | | The genomic architecture of ecological divergence among budding yeast species Giroux, Mélissa ; Torres, José Francisco; Deluna, Alexander; Landry, Christian | |
| 9:15 am | Lapointe, François-Joseph | Patterns and illusions in the evolution of species geographic ranges Pigot, Alex | The genetics of adaptation in changing environments Matuszewski, Sebastian ; Kopp, Michael; Hermisson, Joachim | | Detection of gene polymorphisms related to adaptation to climatic factors in white spruce (<i>Picea glauca</i>) Hornoy, Benjamin ; Gérardi, Sébastien; Blais, Sylvie; Gagnon, France; Beaulieu, Jean; Bousquet, Jean | |
| 9:30 am | The evolutionary emergence of infectious diseases in networks | Diversification and biogeography of the Australian cicada genus <i>Pauropsalta</i> Owen, Christopher L. | How competition affects evolutionary rescue: theoretical insight Osmond, Matthew Mile ; de Mazancourt, Claire | | The evolution of male pregnancy genes among pipefish and seahorse lineages with diverse mating systems Small, Clayton ; Cognato, April; Jones, Adam | |
| 9:45 am | Day, Troy | Better phylogenetics through population genetics: an example using compensatory substitution in RNA Nasrallah, Chris A. | Why are wings wing-shaped? Agents of selection on the wings of <i>D. melanogaster</i> Pitchers, William ; Dworkin, Ian; Denieu, Michael | | Quantifying the strength of positive & purifying selection across the whole genome of outcrossing & selfing <i>Capsella</i> species Williamson, RJ ; Koenig, D; Josephs, E; Hazzouri, KM; Weigel, D; Wright, SI | |
| Morning coffee break 10:00 – 10:30 am | | | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|---|--|--|--|
| Biogeography 1 | Conservation biology 2 | Ecological genetics 3 | Ecology / evolution of disease 4 |
| The evolution of sexual dichromatism in an african treefrog Bell, Rayna C. ; Zamudio, Kelly R. | Non-equilibrium dynamics in primate populations leads to inconsistent selective pressures Chapman, Colin | Conservation genomics and adaptive divergence of atlantic salmon (<i>Salmo salar</i>) In high definition Bouret, Vincent ; Dionne, Mélanie; O'Reilley, Patrick R.; Kent, Matthew P.; Lien, Sigbjorn; Bernatchez, Louis | Fitness of a freshwater bacterial parasite on multiple host species Auld, Stuart ; Searle, Catherine; Grippi, Dylan; Hall, Spencer; Duffy, Meghan |
| Historical biogeography of mite harvestmen (Arachnida, Opiliones, Cyphophthalmi) in Australia's wet tropics Boyer, Sarah ; Baker, Caitlin; Popkin-Hall, Zachary; Lauko, Domokos; Luxbacher, Amy; Kozak, Ken | Effect of environmental heterogeneity on immune response of tree swallows Pigeon, Gabriel ; Pelletier, Fanie | Genomics of adaptation: evolution of pigmentation alleles in beach mice Domingues, Vera ; Hoekstra, Hopi | Do island hosts have ineffective defenses against introduced parasites? A test using Darwin's finches and nest flies Clayton, Dale ; Koop, Jennifer; Knutie, Sarah; Laverty, Sean; Jeb, Owen |
| Phyloendemism in the Brazilian Atlantic forest hotspot: a first synthesis Carnaval, Ana ; Waltari, Eric; Prates, Ivan; Spanos, Zoe; Rivera, Danielle; Moritz, Craig | Massive sampling effort reveals high plant and lichen diversity across the geographical range of dwarf heath on Nova Scotia coastal barrens Porter, Caitlin ; Basquill, Sean; Lundholm, Jeremy | Transcriptional and genomic differentiation across the four cactus host populations of <i>Drosophila mojavensis</i> Matzkin, Luciano | Competition, cooperation among kin and virulence in multiple infections Giraud, Tatiana ; Lopez-Villavicencio, Manuela; Shykoff, Jacqui; Hood, Michael |
| Diversification in aridifying Australia: Reconstructing the timing, geography, and pattern of a global cicada tribe Marshall, David | Environmental barcoding for ecosystem monitoring Spall, Jennifer L ; Shokralla, Shadi; Baird, Donald; Hajibabaei, Mehrdad | Population genomics of parallel divergence among freshwater and anadromous atlantic salmon populations Perrier, Charles ; Bouret, Vincent; Kent, Matthew; Bernatchez, Louis | Fitness benefits of a division of labor in polyembryonic parasite colonies: defense against invaders? Lloyd, Melanie ; Poulin, Robert |
| Biting black flies breach the Barrens: Evidence for the northward migration of insects into northern Canada Schaefer, Patrick ; Currie, Doug | Variance in spatial genetic structure in a continuous distribution of forest-dwelling boreal caribou Wilson, Paul | Crazy quilting: The genomics of local adaptation and divergence with gene flow in <i>Anolis marmoratus</i> Schneider, Christopher ; Crawford, Nicholas; McGreevy, TJ | Dynamic spleen mass in wild and domestic American mink Schulte-Hostedde, Albrecht ; Bowman, Jeff; Nituch, Larissa |
| Geographic variation among enclaves of the Pine Barrens treefrog (<i>Hyla andersonii</i>): evidence from morphometric, acoustic signal, and genetic data Warwick, Alexa | Population genetic structure of a temperate snake across a heterogeneous landscape Xuereb, Amanda ; Loughheed, Stephen | From migration models to gene flow: fixation in heterogeneous populations Vuilleumier, Séverine | Caterpillars and their parasites in a complex world Sternberg, Eleanore ; Lefèvre, Thierry; Hunter, Mark; de Roode, Jacobus |
| Morning coffee break 10:00 – 10:30 am | | | |

Sunday, July 8 | 8:30 – 10:00 am

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|--|--|--|--|---|
| | Genomics & plants 1 | Life history studies 5 | Species interactions & coevolution 3 | Phylogeography 2 |
| 8:30 am | Determinants of genome size variation in angiosperms Bainard, Jillian ; Husband, Brian | To be big or to be young? Hoi, Amber ; Zappia, Simon; Roitberg, Bernard | Symbiotic diversity in an environmentally acquired bug-Burkholderia symbiosis Garcia, Justine; Gerardo, Nicole | Phylogeography of a unisexual-bisexual mating complex: a population genomic approach Alberici da Barbiano, Laura ; Gompert, Zach; Buerkle, Alex; Gabor, Caitlin; Aspbury, Andrea; Nice, Chris |
| 8:45 am | Evolutionary genomics of self-incompatibility in the Brassicaceae Castric, Vincent ; Vekemans, Xavier; Goubet, Pauline | The evolution of mortality during ontogenesis Levitis, Daniel | Epidemic distributions in rhizobia Hollowell, Amanda ; Regus, John; Sachs, Joel | Genetic diversity of the worldwide dromedary (<i>Camelus dromedarius</i>) population Charruau, Pauline ; Almathen, Faisal; Hanotte, Olivier; Burger, Pamela |
| 9:00 am | Genetic adaptation to genome-doubling in autotetraploid <i>Arabidopsis arenosa</i> Hollister, Jesse ; Arnold, Brian; Svedin, Elizabeth; Dilkes, Brian; Bomblies, Kirsten | How a thermal dichotomy in nesting environments influences offspring of the world's most northerly oviparous snake, <i>Natrix natrix</i> (Colubridae) Löwenborg, Kristin ; Hagman, Mattias; Gotthard, Karl | Primate evolutionary history contribution to the deciphering of SIV/HIV origin and diversification Lafay, Benedicte ; Liégeois, Florian; Locatelli, Sabrina; Pourrut, Xavier; Peeters, Martine | You can always depend on the mitochondria of strangers: multiple introgression events in the <i>Luxilus zonatus</i> species group Halas, Dominik |
| 9:15 am | Maintenance of variation in <i>Capsella grandiflora</i> : a population genomics approach Lee, Young Wha ; Josephs, Emily; Wright, Stephen; Stinchcombe, John | Genes, sex and age in the fly metabolome Promislow, Daniel ; Soltow, Quinlyn; Sidik, Alfire; Jones, Dean | Dispersal, environmental change and local adaptation in diverse experimental communities Lawrence, Diane | Phylogeography in a small resident songbird: what do molecular markers tell us about the boreal chickadee? Lait, Linda ; Burg, Theresa |
| 9:30 am | The role of polyploidization and subsequent evolution in shaping genomic and phenotypic variation in the allotetraploid <i>Mimulus sookensis</i> Modliszewski, Jennifer ; Willis, John | A key component of the physical environment drives the evolution of maternal reproductive strategies in Atlantic salmon Rollinson, Njal ; Hutchings, Jeffrey | Host control in bacterial symbiosis: legumes and rhizobia Regus, John | Transatlantic movements of sea turtles: where do they go and how do they get there? Lee, Patricia LM |
| 9:45 am | Genetics of safflower domestication Pearl, Stephanie ; Bowers, John; Burke, John | Differences in reproductive investment drive sexual dimorphism in immunocompetence in a Katydid Vincent, Crystal ; Gwynne, Darryl | Actinobacteria as essential symbionts for a cosmopolitan cotton pest Salem, Hassan ; Kreutzer, Elisabeth; Kaltenpoth, Martin | Phylogeography of two bark beetles: influence of two contrasting ecological strategies Mayer, François ; Mardulyn, Patrick; Piel, Frédéric; Cassel-Lundhagen, Anna; Grégoire, Jean-Claude |
| Morning coffee break 10:00 – 10:30 am | | | | |

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|---|---|--|
| Sexual selection & mating systems 5 | Speciation / hybridization 2 | Hybridization / speciation 4 | Molecular evolution & <i>Drosophila</i> |
| Correlated responses to selection on pollen size in the common morning glory, <i>Ipomoea purpurea</i> Chang, Shu-Mei | Host shift speciation in Neodiprion sawflies: Preliminary evidence based on host-associated ecological and genetic divergence Bagley, Robin ; Linnen, Catherine | Reproductive isolation accumulates via sexual selection Boughman, Janette ; Head, Megan | Rapid evolution of male achiasmatic meiosis genes across <i>Drosophila</i> Beekman, Danielle ; Logsdon, John |
| Resources, competition and inbreeding depression: their influence on reproductive system evolution Maurice, Sandrine ; Litrico, Isabelle | Matching habitat preference mediated by divergence in rheotactic behavior between parapatric lake and stream threespine stickleback (<i>Gasterosteus aculeatus</i>) Jiang, Yuexin ; Bolnick, Daniel | Reproductive isolation between sister species of <i>Peromyscus</i> mice: behavioral and genomic evidence Kay, Emily ; Hoekstra, Hopi | Evolution of mustard oil detoxification in leafmining drosophilid herbivores Gloss, Andrew ; Rast, Timothy; Giddings-Vassao, Daniel; Gershenson, Jonathan; Montfort, William; Whiteman, Noah |
| Effects of floral display size on male and female reproductive success in <i>Mimulus ringens</i> Mitchell, Randall ; Karron, Jeffrey D. | Niche evolution and ecological speciation in North American white pines Moreno-Letelier, Alejandra ; Ortiz-Medrano, Alejandra; Piñero, Daniel; Barraclough, Timothy G. | Reproductive isolation and mating habitats interact to affect female mate discrimination between species Lackey, Alycia ; Boughman, Janette | Population genomic analysis of codon usage along genes of <i>Drosophila</i> and <i>Cryptococcus</i> Kliman, Richard ; McGaugh, Suzanne; Noor, Mohamed |
| Patterns and potential mechanisms of intra- and inter population incompatibility in <i>S. habrochaites</i> Randle, April ; Sianta, Shelley; Alejandro, Tovar-Mendez; Patricia, Bedinger | Adaptive signal divergence and speciation in a Hispaniolan anole Ng, Julienne ; Glor, Richard | Genome wide patterns of differentiation among subspecies of house mice Phifer-Rixey, Megan ; Bomhoff, Matthew; Nachman, Michael W | Regulation of X-linked testes-specific genes in the <i>Drosophila</i> male germline Landeem, Emily L. ; Meiklejohn, Colin D.; Presgraves, Daven C. |
| Recurrent patterns in the evolution of predominant selfing in <i>Arabidopsis</i> relatives Shimizu, Kentaro ; de la Chau, Nicole; Wagner, Andreas; Tsuchimatsu, Takashi; Pascal, Kaiser; Bachelier, Julien | Transgressive segregation in ecologically relevant traits in the face of strong DMIs: experimental evidence from <i>Tigriopus californicus</i> Pereira, Ricardo ; Barreto, Felipe; Burton, Ronald | Danger lurks from unsuspecting origins: A case of ecological speciation promoting the rapid emergence of a fungal pathogen through host-jump into coffee Silva, Diogo Nuno ; Talhinas, Pedro; Loureiro, Andreia; Várzea, Vítor; Batista, Dora; Paulo, Octávio Salgueiro | The genetic basis of cuticular hydrocarbon production in <i>Drosophila melanogaster</i> and <i>D. simulans</i> Pardy, Jessica ; Rundle, Howard D.; Moehring, Amanda |
| Hybridization and reproduction in two rewardless lady's slipper orchids (<i>Cypripedium</i>): conservation threat or life as usual? Worley, Anne C. ; Ford, Bruce A.; Pearn, Melissa A. | Interspecific hybridization increases MHC class II diversity in two sister species of newts Nadachowska-Brzyska, Krystyna; Babik, Wieslaw; Zielinski, Piotr; Radwan, Jacek | Hybridization and barriers to gene flow in an island bird radiation Warren, Ben H. ; Bermingham, Eldredge; Bourgeois, Yann; Estep, Laura K.; Prys-Jones, Robert P.; Strasberg, Dominique; Thebaud, Christophe | Comparative analysis of sex-specific pigmentation identifies novel genes involved in phenotypic evolution Signor, Sarah ; Kopp, Artyom |
| Morning coffee break 10:00 – 10:30 am | | | |

Sunday, July 8 | 10:30 am – 12:00 noon

| | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 |
|-----------------|---|---|---|--|
| | CSEE Symposium - The structure & dynamics of ecological networks: from genes to ecosystems | SSB Mayr Symposium | Adaptation 6 | Adaptation 7 |
| 10:30 am | Adaptive responses to the emergence of disease on a network: the case of human vaccinating behavior | Systematic relationships & historical-biogeographic perspectives inform conservation: processes responsible for variation in "endangered" taxa Malaney, Jason | Fixation probabilities and the genetic architecture of local adaptation Aeschbacher, Simon ; Buerger, Reinhard | How does pollen versus seed dispersal affect niche evolution? Aguilée, Robin ; Shaw, Frank H.; Rousset, François; Shaw, Ruth G.; Ronce, Ophélie |
| 10:45 am | Bauch, Chris | Phylogenetic analysis of pathogenetic sequence data from structured populations Kühnert, Denise | Limited potential for adaptation to future climate change of marginal Antarctic populations as a result of insufficient isolation Agrawal, Shobhit ; Held, Christoph | Genetic variation and the shape of clines under spatially varying stabilizing selection? Geroldinger, Ludwig |
| 11:00 am | Habitat connectivity and population dynamics in experimental networks | Polar mountains, Antarctic ancestry, and cold-hardy lineages around the world: the Andean seedsnipes as a test case Ibarguchi, Gabriela | Multivariate analysis of evolutionary changes in life history traits in <i>Caenorhabditis elegans</i> exposed to pollutants Dutilleul, Morgan ; Bonzom, Jean-Marc; Galas, Simon; Réale, Denis | Flowers in a different light: ultraviolet floral variation in silverweed cinquefoil Koski, Matthew ; Ashman, Tia-Lynn |
| 11:15 am | Rayfield, Bronwyn ; Gonzalez, Andrew | Efficiently and rapidly modeling the non-homogeneity of evolutionary processes to reconstruct phylogenies Groussin, Mathieu | Scanning NYC White-footed Mice (<i>Peromyscus leucopus</i>) exomes for adaptive divergence Harris, Stephen Edward ; Munshi-South, Jason; Oberfell, Craig; O'Neill, Rachel | Selection on floral traits in two species of milkweeds: testing Bateman's principle La Rosa, Raffica ; Conner, Jeffrey |
| 11:30 am | Species invasions in food web networks | Genes, geography, climate & cryptic diversity in leaf-toed geckos (Phyllodactylidae: <i>Phyllodactylus</i>) illuminate evolutionary processes throughout the Mexican dry forest Blair, Christopher | Population genomics of Pacific lamprey (<i>Entosphenus tridentatus</i>): Adaptive variation in a panmictic species Hess, Jon ; Campbell, Nathan; Close, David; Docker, Margaret; Narum, Shawn | Apomixis, physiological diversity and population genetic structure: analysis of the factors which affect range size variation in <i>Boechera</i> (Brassicaceae) Lovell, John ; McKay, John; Sharbel, Timothy |
| 11:45 am | Romanuk, Tamara | Is there a ginger code? The role of positive selection on floral evolution in the Zingiberales Almeida, Ana Maria R. | Pollinator-driven adaptation and reproductive isolation in orchids Sun, Mimi ; Schiestl, Florian | Quantitative trait divergence within and across continents in an invasive plant Shirk, Rebecca ; Hamrick, JL |

Lunch (provided) | 12:00 – 1:15 pm

'Bring your lunch' events: CSEE business meeting (Rm. 104)

NSF funding opportunities (Rm. 108) | Survival of the Fittest: Tips on How to Get a Job in Academia (Rm. 102)

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|---|---|---|--|
| Biogeography 2 | Conservation biology 3 | Ecological genetics 4 | Ecology / evolution of disease 5 |
| <p>Escapees and inmates: the evolution of <i>Roupaleae</i> genera (Proteaceae) that broke free from Australia</p> <p>Fayed, Sarah; Weston, Peter; Jordan, Greg; McQuillan, Peter; Saulei, Simon; Chengxin, Fu</p> | <p>Landscape genetics of butterflies: exploring the effects of habitat fragmentation on levels of genetic diversity</p> <p>Crawford, Lindsay; Keyghobadi, Nusha</p> | <p>The evolution of weediness: A comparative analysis of the <i>Ipomoea</i> transcriptome</p> <p>Baucom, RS; Stinchcombe, JR</p> | <p>The fiercest of competitors: how energy antagonism between pathogens and the immune system affects within-host dynamics</p> <p>Cressler, Clay; Nelson, Bill; Day, Troy; McCauley, Ed</p> |
| <p>Phylogenetics and biogeography of Blenniidae</p> <p>Levy, André; Almada, Vitor</p> | <p>Harnessing genomics for delineating conservation units</p> <p>Funk, W. Chris; McKay, John K.; Hohenlohe, Paul A.; Allendorf, Fred W.</p> | <p>The genetic basis of flowering time evolution in the annual plant <i>Brassica rapa</i></p> <p>Franks, Steven</p> | <p>Patterns of parasite diversification and prevalence with elevation</p> <p>Daly, Benjamin; Tobias, Joseph; Seddon, Nathalie; Hellgren, Olof</p> |
| <p>The biogeography of stress: preliminary investigations of physiology and genetic diversity across core and edge populations of the wood frog</p> <p>Rissler, Leslie J.; Crespi, Erica; Mattheus, Nichole; Duncan, Sarah</p> | <p>Does habitat fragmentation affect population genetics of Brown-headed nuthatches (<i>Sitta pusilla</i>)?</p> <p>Han, Kin-Lan; Cox, Jim; Kimball, Rebecca T.</p> | <p>Evolutionary genomics of life history strategies in <i>Mimulus guttatus</i></p> <p>Friedman, Jannice; Willis, John</p> | <p>Sexual activity enhances immunity in <i>Drosophila melanogaster</i></p> <p>Gupta, Vanika; S.A., Zeeshan; N.G., Prasad</p> |
| <p>Linking climate stability and montane diversity in Brazil and Australia</p> <p>Waltari, Eric; VanDerWal, Jeremy; Moritz, Craig; Carnaval, Ana</p> | <p>Environmental correlates and long-term outcomes of hatchery-wild hybridization in wild brook trout populations</p> <p>Harbicht, Andrew; Al Shalih, Mohammed; Wilson, Chris; Fraser, Dylan</p> | <p>Ecological genetics of soil aluminum tolerance in the wild grass <i>Anthoxanthum odoratum</i></p> <p>Gould, Billie; Geber, Monica; McCouch, Susan</p> | <p>Genetic variation in resistance, tolerance and transmission potential to parasites in the honey bee</p> <p>Roberts, Katherine; Budge, Giles; Hughes, William</p> |
| <p>Quantifying the roles of ecology and geography in spatial genetic divergence and reproductive isolation</p> <p>Wang, Ian J.; Glor, Richard E.; Losos, Jonathan B.</p> | <p>Population genetics of swallowtail butterflies in a fragmented landscape</p> <p>Koscinski, Daria; Wagner, Helene; Keyghobadi, Nusha</p> | <p>Heterosis among natural populations of <i>Arabidopsis thaliana</i></p> <p>Oakley, Christopher</p> | <p>Effect of host resistance strategy and co-infection to <i>Podosphaera plantaginis</i> epidemiology</p> <p>Susi, Hanna; Laine, Anna-Liisa</p> |
| <p>treating fossils as terminal taxa in divergence time estimation reveals ancient vicariance patterns in the Palpimanoidea spiders</p> <p>Wood, Hannah; Matzke, Nicholas; Gillespie, Rosemary; Griswold, Charles</p> | <p>Mountains, deserts, and frogs: striking regional variation in landscape effects on gene flow</p> <p>Robertson, Jeanne; Paéz-Vacas, Mónica; Murphy, Melanie A; Pearl, Christopher A; Adams, Michael J; Haig, Susan M; Funk, W. Chris</p> | <p>Effects of herbivore genetic variation and abundance on plant growth and induced defenses</p> <p>Turley, Nash; Johnson, Marc</p> | <p>High and dry: anhydrobiosis mediates spatiotemporal release from parasites in natural communities of anciently asexual bdelloid rotifers</p> <p>Wilson, Christopher G.; Sherman, P. W.</p> |

Sunday morning 2

Lunch (provided) | 12:00 – 1:15 pm

'Bring your lunch' events: CSEE business meeting (Rm. 104)

NSF funding opportunities (Rm. 108) | Survival of the Fittest: Tips on How to Get a Job in Academia (Rm. 102)

Sunday, July 8 | 10:30 am – 12:00 noon

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|-----------------|---|--|---|---|
| | Genomics 2 | Life history studies 6 | Species interactions & coevolution 4 | Phylogeography 3 |
| 10:30 am | Integration of DNA transposons dependent on genome landscapes Campos, Rebeca ; Chiaromonte, Francesca; Feschotte, Cedric; Kapusta, Aurelie; Makova, Kateryna | Telomere dynamics as a marker of fitness in the Seychelles warbler Barrett, Emma L. B. ; Burke, Terry; Komdeur, Jan; Richardson, David S. | Female hamsters learn to avoid mating with heterospecific males during adulthood delBarco-Trillo, Javier ; Johnston, Robert E. | On the origin of species in Amazonia Beheregaray, Luciano ; Cooke, Georgina; Chao, Labbish |
| 10:45 am | Family values: Using Mendelian inheritance to improve genotyping-by-sequencing Chen, Nancy ; Van Hout, Cris; Fitzpatrick, John; Clark, Andrew | How structural equation models clarify causal relationships (including trade-offs) between expensive life history traits Bussiere, Luc | Character displacement in a seasonal environment Goldberg, Emma E. ; Lande, Russell; Price, Trevor D. | Speciation in two freshwater crayfish: Phylogeographic structure of two freshwater crayfish with contrary responses to drought conditions Bentley, Andrew I ; Schmidt, Daniel J; Hughes, Jane M |
| 11:00 am | Evolution of genes encoding a unique reproductive proteome in Japanese quail Finseth, Findley ; Bogdanowicz, Steve; Adkins-Regan, Elizabeth; Harrison, Richard G | Probabilistic maturation reaction norms reveal heritable genetic variation and phenotypic plasticity in <i>Daphnia</i> maturation decisions Harney, Ewan ; Van Dooren, Tom; Paterson, Steve; Plaistow, Stewart | Morphological divergence driven by predation environment before and after speciation in <i>brachyrhaphis</i> fishes Ingleby, Spencer ; Billman, Eric; Belk, Mark; Johnson, J.B. | Population phylogeography and habitat fragmentation at large island-wide and local scales in two endemic Hawaiian <i>Drosophila</i> : <i>D. tanythrix</i> and <i>D. yooni</i> Pelep, Peltin ; Price, Donald |
| 11:15 am | DNA loss and transposable element proliferation in the largest tetrapod genomes Mueller, Rachel ; Sun, Cheng; Chong, Rebecca; Lopez Arriaza, Jose | The trade-off between early growth trajectories and mating interests affects life history fitness consequences Lee, Who-Seung ; Metcalfe, Neil B.; Monaghan, Pat; Peres-Neto, Pedro; Réale, Denis | World-wide patterns of host-associated diversification in a seabird ectoparasite - causes and consequences McCoy, Karen D. | Species delimitation in the carnivorous plant species <i>Sarracenia alata</i> Satler, Jordan D. ; Carstens, Bryan C. |
| 11:30 am | A phylogenomic view of living primates Perelman, Polina; Johnson, Warren E.; Horvath, Julie; Seuanez, Hector; Roos, Christian; Pecon-Slattery, Jill | Seasonal and life history timing of maturation in a long-lived salmonid: plasticity and its role in evolution Morbey, Yolanda ; Shuter, Brian | Evolutionary and ecological implications of phytoestrogens in the primate diet Wasserman, Michael | Evolution of Australia's unique aquatic biodiversity: insights from freshwater turtles Todd, Erica ; Zenger, Kyall; Blair, David; Jerry, Dean |
| 11:45 am | Endless pigeons most beautiful - genomic diversity and the molecular basis of recurrent morphological evolution Shapiro, Michael ; Kronenberg, Zev; Domyan, Eric; Yandell, Mark | Influence of condition on dispersal and immunity in the Glanville fritillary butterfly Saastamoinen, Marjo ; Rantala, Markus | | |

Lunch (provided) | 12:00 – 1:15 pm

'Bring your lunch' events: CSEE business meeting (Rm. 104)

NSF funding opportunities (Rm. 108) | Survival of the Fittest: Tips on How to Get a Job in Academia (Rm. 102)

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|---|--|--|--|
| Sexual selection & mating systems 6 | Speciation / hybridization 3 | Hybridization / speciation 5 | Molecular evolution of fishes |
| Reproductive tango: Identification of female reproductive proteins in a speciation model, the European corn borer Al-Wathiqui, Nooria ; Dopman, Erik | Intraspecific plastid sequence evolution in <i>Campanulastrum americanum</i> : a contributing factor to reproductive isolation? Barnard-Kubow, Karen ; Sloan, Daniel; Galloway, Laura; Taylor, Douglas | Ecological and mutation-order speciation in digital organisms Anderson, Carlos ; Harmon, Luke | Molecular evolution of teleost neural isozymes Auld, Ryan; Merritt, Thomas |
| The effect of rearing environment on guppy genitalia and mating behavior Broder, E Dale ; Ruell, Emily; Handelsman, Corey; Ghalambor, Cameron; Angeloni, Lisa | Evolutionary potential of rare plants: <i>Mentzelia mollis</i> and <i>M. packardiae</i> Brokaw, Joshua ; Gilbert, Blaine; Hufford, Larry | Two rules of speciation in <i>Caenorhabditis briggsae</i> and <i>C. sp. 9</i> Bundus, Joanna ; Cutter, Asher | Why the Hivex paralogs evolved under strong positive selection in cichlid fishes Diepeveen, Eveline ; Roth, Olivia; Salzburger, Walter |
| Dynamics of gynodioecy in flowering plants: how can females be maintained together with hermaphrodites? Dufay, Mathilde | Parent-offspring conflict and the evolution of reproductive isolation in <i>Mimulus</i> Oneal, Elen ; Willis, John | Hybrid breakdown and mitochondrial function in <i>nasonia</i> parasitoid wasps Gibson, Joshua ; Kuzmiak, Sarah; Willis, Wayne; Gadau, Juergen | Investigating the genomic basis of adaptive divergence from a coexpression network perspective in lake whitefish Filteau, Marie ; Bernatchez, Louis |
| Evolution of complex sperm morphology Higginson, Dawn | The evolutionary consequences of limited seed dispersal Rubio de Casas, Rafael ; Meireles, Jose Eduardo; Willis, Charles G. | Noisy neighbors can hamper the evolution of reinforcement Matute, Daniel | Evolutionary analysis and genetic mapping of neuropeptide Y (NPY) receptors in Rainbow Trout (<i>Oncorhynchus mykiss</i>) and Arctic Charr (<i>Salvelinus alpinus</i>) Goldt, Aaron ; Danzmann, Roy; Ferguson, Moira |
| The sword as an inexpensive sexual ornament in swordtail fishes (<i>Xiphophorus</i>) Johnson, James B. ; Rosenthal, Gil G. | Post-zygotic reproductive isolation among populations of <i>Iris atropurpurea</i> : the effect of spatial distance among crosses Sapir, Yuval ; Mazzucco, Rupert | Population divergence in spadefoot toads: the roles of introgression and local adaptation Rice, Amber ; Pfennig, Karin | Genetic mechanisms underlying variation in visual systems in freshwater fishes (genus <i>Etheostoma</i>) Gumm, Jennifer ; Carleton, Karen; Mendelson, Tamra |
| Which traits are targeted by female choice in ecological speciation? Lettieri, Liliana ; Keagy, Jason; Boughman, Jenny | Genetic architecture and adaptive significance of the selfing syndrome in <i>Capsella rubella</i> Slotte, Tanja ; Hazzouri, Khaled; Andolfatto, Peter; Stern, David; Wright, Stephen | Mitochondrial capture in two sympatric sibling species of polecat (<i>Mustela putorius</i> and <i>M. eversmannii</i> , Mustelidae, Carnivora) Zachos, Frank ; Klasek, Erich; Dekker, Jasja; Petersen, Britt; Suchentrunk, Franz | The evolution of a cancer suppressor in the genus <i>Xiphophorus</i> Scarpino, Samuel V ; Hunt, Patrick J; Schartl, Manfred; Kirkpatrick, Mark |
| Lunch (provided) 12:00 – 1:15 pm | | | |
| 'Bring your lunch' events: CSEE business meeting (Rm. 104) | | | |
| NSF funding opportunities (Rm. 108) Survival of the Fittest: Tips on How to Get a Job in Academia (Rm. 102) | | | |

Sunday, July 8 | 1:15 – 2:45 pm

| | | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 |
|--|---|--|---|--|--|
| | | CSEE Symposium – Eco-evolutionary dynamics: how ecological & evolutionary process influence one another | ESEB Symposium – The physiological mechanisms that shape life histories | Adaptation 8 | Behaviour & social evolution 4 |
| 1:15 pm | Eco-evolutionary dynamics Hendry, Andrew | | Oxidative stress and immune function - costs of reproduction? Speakman, John | Widespread linkage disequilibrium and limited hybridization along parallel clines in a marine fish Bradbury, Ian ; Bowman, Sharen; Borza, Tudor; Hubert, Sophie; Higgins, Brent; Bentzen, Paul | Living together or just neighbours? Parallel recognition systems in parabiotic ant nests Emery, Virginia ; Tsutsui, Neil |
| 1:30 pm | | | | Local adaptation and maladaptation in space and time: aquatic bacteria as a model system Fox, Jeremy | Microclimatic predictors of call phenology for eastern Ontario anurans Klaus, Samantha P. ; Loughheed, Stephen C. |
| 1:45 pm | Ecological change leads to evolutionary change De Meester, Luc | | Growing up and growing old: links across life history stages Monaghan, Pat | Within-population developmental & morphological plasticity is mirrored in between-population differences: linking plasticity and diversity Johansson, Frank ; Richter-Boix, Alex | Uncovering the gene regulatory network for worker sterility in honey bees Mullen, Emma K ; Daley, Mark; Thompson, Graham J |
| 2:00 pm | | | | Conflict, coadaptation, and the evolution of reproductive incompatibilities in a placental fish Schrader, Matthew ; Travis, Joseph | Cultural evolution in isolation: The relative contributions of habitat, geography and colonization events in shaping island dialects Potvin, Dominique |
| 2:15 pm | The interplay of ecology, coevolution, and divergence Schluter, Dolph | | Population genomic basis of variation in <i>Drosophila</i> life history Flatt, Thomas | Similar traits, different genes/different traits, similar genes: examining parallel evolution in related weedy rice populations Thurber, Carrie S. ; Jia, Melissa; Jia, Yulin; Caicedo, Ana L. | The optimal sampling strategy for unfamiliar prey Sherratt, Thomas |
| 2:30 pm | | | | The distribution of mutational fitness effects of phage ϕ X174 on different hosts Vale, Pedro ; Choisy, Marc; Froissart, Rémy; Sanjuan, Rafael; Gandon, Sylvain | Dominance hierarchies and potentially flexible reproductive strategies in the large carpenter bee, <i>Xylocopa virginica</i> Vickruck, Jess ; Richards, Miriam |
| Afternoon coffee break 2:45 – 3:15 pm | | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|--|--|---|--|
| Biogeography 3 | Conservation biology 4 | Ecological genetics 5 | Ecology / evolution of disease 6 |
| How will changing climate and disturbance regimes alter sub-arctic boreal forest succession? A burning question Brown, Carissa ; Johnstone, Jill | Distribution of genetic variation in monarch butterflies (<i>Danaus plexippus</i>) in eastern North America Chaffee, Carol ; Mageed, Engy; Wayne, Marta | A Bayesian method for estimating genetic differentiation due to isolation by geographic and ecological distance Bradburd, Gideon ; Coop, Graham; Moore, Brian | Uncovering key events in the establishment of <i>Pythium aphanidermatum</i> infection within three divergent hosts: initial molecular investigations Bala, Kanak ; Lévesque, André; Saville, Barry |
| Polyplodization allows for increased dispersal ability and larger ranges in <i>Crataegus series Douglasiana</i> (Black-fruited Hawthorn, Rosaceae) Coughlan, Jenn ; Stefanovic, Sasa; Dickinson, Timothy | Genetic diversity and structure of indigenous rice varieties in the Eastern Himalayan region of Northeast India Choudhury, Baharul ; Khan, ML; Dayanandan, Selvadurai | Using social networks to understand the influence of local habitat heterogeneity on the maintenance of genetic diversity within a metapopulations Conley, Amy ; Templeton, Alan | Evolutionary genetics of schizophrenia Leach, Emma ; Crespi, Bernard |
| Why asexuality occurs at higher latitudes, niche requirements differentiation or superior postglaciation colonization? Ji, Yunheng ; Johnson, Marc | Inbreeding depression in salmon: Dominance versus overdominance effects assessed by segregation distortion in self-crossed hermaphrodites Heath, Daniel ; Komsa, Kendra | Effects of environmental variation on development rate in a genetically variable montane insect Heidl, Sarah ; Roberts, Kevin; Abercrombie, Margaret; Smiley, John; Dahlhoff, Elizabeth; Rank, Nathan | Polyphenism influences investment in immunity: phenotype to transcriptome Parker, Benjamin J |
| Metschnikowia: a model yeast for biogeography and speciation Lachance, Marc-André | Pollination dynamics in invaded Garry oak habitat remnants Muir, Jennifer ; Vamosi, Jana | Oceanographic drivers of offspring abundance may increase or decrease reproductive variance in a temperate marine fish Lotterhos, Katie ; Markel, Russell W. | Manipulation of host plant phenotype and co-infections by two potyviruses: The quest to get a ride on an insect vector Salvaudon, Lucie ; De Moraes, Consuelo M.; Mescher, Mark C. |
| Stomata size and geographic range in relation to ploidy levels in North American <i>Crataegus</i> McGoey, Brechann ; Dickinson, Tim | The Conformation of like-ladder DNA on the Y-chromosome microsatellite of Bali Cattle Winaya, Aris ; Muladno; Gurnadi, Eddie; Saefuddin, Asep | Fine-scale genetic structure of two mesocarnivores in a heterogeneous landscape, in a rabies epidemiology context Talbot, Benoit ; Garant, Dany; Mainguy, Julien; Pelletier, Fanie | The good, the bad, and the good: Horizontal transmission and the evolution of mutualism Shapiro, Jason ; Turner, Paul |
| Palm phylogenies reveal patterns of evolution in the Neotropics Roncal, Julissa ; Kahn, Francis; Millan, Betty; Couvreur, Thomas; Pintaud, Jean-Christophe | Not all those who wander are lost: How forage and anthropogenic disturbance have affected the abundance and distribution of Hudson Bay Lowlands migratory caribou Newton, Erica ; Abraham, Ken; Schaefer, James; Pond, Bruce; Brown, Glen; Thompson, John E. | Very small scale genetic structure in a mobile species? Walkup, Jessica ; Evans, Peter; Reid, Jane | Insight into the Rabid Brain: what is essential for survival against a deadly virus Srithayakumar, Vythegi ; Sribalachandran, Hariharan; Kyle, Christopher |
| Afternoon coffee break 2:45 – 3:15 pm | | | |

Sunday, July 8 | 1:15 – 2:45 pm

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|--|--|--|---|---|
| | Sexual selection & mating systems 7 | Life history studies 7 | Molecular evolution, plants & fungi | Phylogeography 4 |
| 1:15 pm | Strong influence of behaviour on male and female reproductive success in the Siberian chipmunk Baudry, Emma ; Pisanu, Benoit; Chapuis, Jean-Louis; Marmet, Julie | Experimentally testing the physiological and ecological mechanisms underlying reproductive trade-offs in the brown anole (<i>Anolis sagrei</i>) Cox, Robert ; Calsbeek, Ryan | Signatures of natural selection and local adaptation in <i>Populus trichocarpa</i> and <i>Populus deltoides</i> along latitudinal clines Bawa, Rajesh ; Holliday, Jason | The Isthmus of Tehuantepec acting as a barrier and bridge for two species of tropical Orioles (<i>Icterus graduacauda</i> and <i>Icterus chrysater</i>) Cortes-Rodriguez, M. Nandadevi ; Hernández-Baños, Blanca Estela; Navarro-Sigüenza, Adolfo G.; Omland, Kevin E |
| 1:30 pm | Sex allocation in a small polygynous, polytocous mammal Gedir, Jay ; Michener, Gail | Larval Settlement in the nemertean egg-predator <i>Carcinonemertes errans</i> Dunn, Paul H. | The phylogenetic pattern of molecular evolution of herbicide resistance in genus <i>Amaranthus</i> Beard, Kristin ; Lawton-Rauh, Amy; Burgos, Nilda | Comparing historical hypotheses using DNA sequence variation in a geographic model of coalescence Dellicour, Simon ; Hardy, Olivier; Vereecken, Nicolas; Mardulyn, Patrick |
| 1:45 pm | Sexy males in muddy water: phenotypic adaptation in an African cichlid Gray, Suzanne ; Chapman, Lauren | Age trajectories of health indicators in wild and captive mouse lemurs indicate selective disappearance Hämäläinen, Anni ; Heistermann, Michael; Raharivololona, Brigitte; Huchard, Elise; Aujard, Fabienne; Kraus, Cornelia | Evolution of gene regulatory response to abiotic stress in <i>Arabidopsis</i> Des Marais, David L. ; Lasky, Jesse R.; Keitt, Timothy H.; Juenger, Thomas E. | Should we use phylogenetic trees or haplotype networks to display intraspecific DNA sequence variation in phylogeographic studies? Mardulyn, Patrick |
| 2:00 pm | What do we really know about the signaling role of plumage color in blue tits? A case study of impediments to progress in behavioral ecology Parker, Timothy | Different kinds of monocarpy: phenotypically plastic semelparity in <i>Lobelia inflata</i> Hughes, William ; Simons, Andrew M. | Frequent intracellular transfer of mitochondrial maturase genes to the nuclear genome during land plant evolution Guo, Wenhui ; Mower, Jeffrey | Species distribution models and ancient DNA reveal species-specific responses of Late Quaternary megafauna to climate and humans Marske, Katharine ; Lorenzen, Eline; Nogues-Bravo, David; Orlando, Ludovic; Rahbek, Carsten; Willerslev, Eske |
| 2:15 pm | Variation in female preferences results in a positive genetic correlation between attractiveness and choosiness Ratterman, Nick ; Rosenthal, Gil; Jones, Adam | Egg quality variation in an iteroparous fish in the wild and in captivity Johnston, Tom | Evolution of meiosis genes in fungi and lichens Savelkoul, Elizabeth ; Toll, Cindy; Logsdon, John | Can climate change drive short-range endemism? Nistelberger, Heidi ; Roberts, Dale; Byrne, Margaret; Coates, David |
| 2:30 pm | Geographic variation in sexual signaling: causal evidence that different traits underlie sexual selection in closely related populations Safran, Rebecca ; Jenkins, Brittany; Hubbard, Joanna; Wilkins, Matthew; Flynn, Andrew; Wildrick, Rachel | Determinants and consequences of growth strategies in bighorn sheep (<i>Ovis canadensis</i>) Marcil Ferland, Dominique ; Festa-Bianchet, Marco; Pelletier, Fanie | Black or white: The evolution of hull color in weedy red rice Vigueira, Cynthia ; Olsen, Kenneth | Global patterns of ABO polymorphism suggest strong balancing selection and multiple recent demographic bottlenecks in native American populations Villanea, Fernando ; Busch, Jeremiah; Safi, Kristin |
| Afternoon coffee break 2:45 – 3:15 pm | | | | |

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|--|--|---|
| Genomics 3 | Speciation / hybridization 4 | Hybridization / speciation 6 | Species interactions & coevolution 5 |
| Evolution of sex-specific chromatin modifications in non-model <i>Drosophila</i> species Brown, Emily ; Alekseyenko, Artyom; Kuroda, Mitzi; Bachtrog, Doris | Patterns of female mate choice across populations of <i>Drosophila subquinaria</i> Bewick, Emily ; Dyer, Kelly | Variation within and among founding chromosomes illuminates the history of <i>Capsella rubella</i> Brandvain, Yaniv ; Wright, Stephen; Coop, Graham | Measuring effects of symbiosis on fitness of legumes and rhizobia Denison, R. Ford ; Oono, Ryoko; Ratcliff, William; May, Alex; Underbakke, Kyra; Bower, Justin |
| The pan-genome of <i>Mesorhizobium</i> bacteria locally adapted to serpentine Friesen, Maren L ; Porter, Stephanie S; Dunham, Joseph P; Conow, Christopher; Chang, Peter L | It's not you it's me: The genetic basis of female interspecific mate preference in the <i>Drosophila melanogaster</i> species complex Calhoun, Ryan ; Moehring, Amanda | Gene expression in inter-population hybrids of the copepod <i>Tigriopus californicus</i> Burton, Ronald S ; Barreto, Felipe S; Pereira, Ricardo | Does coevolution make communities more vulnerable to invasion? Jones, Emily ; Nuismer, Scott; Gomulkiewicz, Richard |
| Genome and transcriptome analysis of reproduction in monogonont rotifers Hanson, Sara J. ; Schurko, Andrew M.; Stelzer, Claus-Peter; Mark Welch, David B.; Logsdon Jr., John M. | Flexible aggression as the source of frequency-dependent selection in Nicaraguan cichlid fish under early stages of diversification Lehtonen, Topi | How permeable are species boundaries? A targeted genome-wide assessment of ancient introgression in chipmunks Good, Jeffrey M. ; Bi, Ke; Vanderpool, Dan | Population genetic structuring and host association of the boll weevil, <i>Anthonomus grandis</i> on New World cotton species. Kuester, Adam ; Kim, Kyung Seok; Sappington, Thomas; Nason, John |
| Metabolic profiling of a <i>Drosophila melanogaster</i> cytosolic superoxide dismutase knock out mutant using liquid chromatography/mass spectrometry Knee, Jose ; Merritt, Thomas; Rzezniczak, Teresa | Intraspecific divergence of multivariate sexual traits in a Hawaiian cricket: Does G matter? Oh, Kevin ; Shaw, Kerry | Genomic evidence for rare but promiscuous flow of mimicry genes, together with hybrid speciation, among multiple <i>Heliconius</i> species Mallet, James ; Dasmahapatra, Kanchon | Coevolution between invasive and native plants driven by chemical competition and soil biota Lankau, Richard |
| Tracking gene transfer between the mealybug <i>Planococcus citri</i> and their endosymbionts <i>Tremblaya princeps</i> and <i>Moranella endobia</i> MacCreedy, Joshua ; Gruwell, Matthew | A genomics approach to investigating behavioral reproductive isolation in the Hawaiian picture-winged <i>Drosophila heteroneura</i> and <i>D. silvestris</i> Price, Donald ; Moss, Andrea; Michalak, Pawel | Testing for reinforcement at the genomic level Smadja, Carole ; Thoma, Marios; Caminade, Pierre; Penn, Dustin; Latour, Yasmin; Ganem, Guila; Boursot, Pierre | A phylogenetic perspective of floral divergence within communities of <i>lochroma</i> (Solanaceae) Muchhala, Nathan ; Smith, Stacey |
| Comparing the spontaneous base substitution mutation rate in <i>Caenorhabditis nematodes</i> Salomon, Matthew P.; Ostrow, Dejerianne; Matsuba, Chikako; Baer, Charles F. | Recent divergence in the orchard oriole complex (<i>Icterus spurius</i>): using song to understand species boundaries Sturge, Rachel J. ; Price, Dr. Jordan J.; Omland, Kevin E. | Whole-genome sequencing of hybrid strains in the nematode <i>Pristionchus pacificus</i> reveals astonishing crossover and mutation rates and allows unprecedented mechanistic insight into speciation processes Weller, Andreas M ; Sommer, Ralf J | Approaching male fitness with artificial flowers Thomson, James |
| Afternoon coffee break 2:45 – 3:15 pm | | | |

Sunday, July 8 | 3:15 – 4:45 pm

| | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 |
|---|---|--|--|--|
| | CSEE Symposium – Eco-evolutionary dynamics: how ecological & evolutionary process influence one another | ESEB Symposium – The physiological mechanisms that shape life histories | Adaptation & evolutionary ecology 1 | Behaviour & social evolution 5 |
| 3:15 pm | Evolutionary rescue in a deteriorating environment Bell, Graham | Asymmetry in host parasite interactions: parasite diversity, host life-traits and immunity Morand, Serge | Predicting larval dragonfly distribution across fish predation risk environments using jet-swimming performance and related abdominal morphology Edwards, Morgan; Robinson, Beren | Habitat quality and optimal foraging: the Marginal Value Theorem revisited Calcagno, V; Grogard, F; Mailleret, L; Wajnberg, E |
| 3:30 pm | | | Seed masting causes life history maladaptation in a seed predator and improves seed escape McAdam, Andrew; Boutin, Stan; Humphries, Murray | Female northern long-eared bats (<i>Myotis septentrionalis</i>) that roost together are related Patriquin, Krista; Palstra, Friso; Leonard, Marty; Broders, Hugh |
| 3:45 pm | How evolutionary change influences community and ecosystem processes Johnson, Marc | Island life shapes the physiology and life history of Eastern bluebirds (<i>Sialia sialis</i>) Matson, Kevin | Adaptive capacity of coastal and upland populations Rymer, Paul | Structural complexity of social spider groups Salomon, Maxence; Verspoor, Rudi |
| 4:00 pm | | | Evolutionary ecology of life- history traits in forest pest Quezada Garcia, Roberto; Bauce, Éric | The evolution of attention seeking displays Számadó, Szabolcs |
| 4:15 pm | Cascades and feedbacks in eco-evolutionary dynamics Post, David | Health and large lipoproteins. Complementary research on the honeybee, fish and human Havukainen, Heli | Exploring anthropogenic vs. natural influences on the evolution of Darwin's finches Raeymaekers, Joost; De León, Luis Fernando; Chaves, Jaime; Podos, Jeffrey; Hendry, Andrew; Cottenie, Karl | A new null model for behavioural thermoregulation in ectotherms Vickers, Mathew; Schwarzkopf, Lin; Alford, Ross |
| 4:30 pm | | | Selection on lateral plates and Eda in threespine stickleback Rennison, Diana; Heilbron, Karl; Barrett, Rowan; Schluter, Dolph | The seasonal polyphenism of European Map Butterfly (<i>Araschnia levana</i>) Wang, Zhen; Schaefer, Martin |
| <p>CSEE Presidential Address – Spencer Barrett 4:45 – 5:45 pm, Canada Hall 2-3 Advancing diversity in evolution: faculty mentoring panel, discussion & social 7:00 - 8:30 pm, Rm. 201 CSEE public outreach talk – Rosie Redfield 7:30 – 8:30 pm, Canada Hall 2-3 CSEE night-cap Mixer 8:30 - 10:00 pm, Trillium Ballroom</p> | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|---|---|--|--|
| Biogeography 4 | Contemporary evolution 1 | Ecological genetics 6 | Ecological genetics & evolution of disease |
| The past, present, and future of neotropical biodiversity Antonelli, Alexandre | Climate adaptation across the native and introduced ranges of an invasive plant Alexander, Jake | Lighting up genes: gene expression patterns induced by exposure to artificial light at night Honnen, Ann-Christin ; Huber, Katrin; Becker, Norbert; Monaghan, Michael | Evolution of resistance and expression of virulence in a natural host-parasite system Bonneaud, Camille ; Balenger, Susan; Edwards, Scott; Hill, Geoff |
| Phylogeography on a dynamic landmass: mtDNA gene trees of six New Zealand forest cicadas Ellis, Emily ; Simon, Chris; Marshall, David; Owen, Christopher; Hill, Kathy; Kamp, Peter | Coupling of selection and genetic architecture facilitates domestication of sea run brown trout Rogell, Björn ; Dannawitz, Johan; Palm, Stefan; Pettersson, Erik; Laurila, Anssi | Male reproductive fitness and queen polyandry are linked to variation in the supergene Gp-9 in the fire ant <i>Solenopsis invicta</i> Lawson, Lucinda ; Vander Meer, Robert; Shoemaker, DeWayne | Towards a general theory the coevolution of phenotypic diversity in hosts and parasites Boots, Mike ; White, Andy; Best, Alex; Bowers, Roger |
| Evolution on East African mountain archipelagos: Phylogeography and conservation biology of the Montane White-eye Habel, Jan Christian ; Luc Lens | Anthropogenic ecosystem disturbances facilitate the contemporary evolution of the western corn rootworm (<i>Diabrotica virgifera virgifera</i>) Chu, Chia-Ching ; Curzi, Matias; Zavala, Jorge; Spencer, Joseph; Seufferheld, Manfred | Sex, cold and selfish genes: what determines the distribution of meiotic drive? Price, Tom | Coupling evolution and epidemiology in a natural host-pathogen metapopulations Laine, Anna-Liisa |
| Sympatry and the evolution of song and colour pattern in birds Martin, Paul ; Montgomerie, Robert; Loughheed, Stephen | Solving the paradox of stasis: Stabilizing selection and the limits of detection Haller, Benjamin C. ; Hendry, Andrew P. | The promotion of microbial sociality by horizontal gene transfer and gene dosage McGinty, Sorcha É. ; Ferrada, Evandro; Rocha, Eduardo P.C.; Wagner, Andreas; Rankin, Daniel J. | Multiple stressors inducing physiological fitness responses in an anuran system: Evaluation of trace metal and temperature influence on host-ranavirus interactions Leduc, Joël ; Echaubard, Pierre; Trudeau, Vance; Lesbarrères, David |
| Effect of island type on reproductive traits in lizards Novosolov, Maria ; Meiri, Shai | Adaptation on the move: evolution at an expanding butterfly range margin in response to climate change Bridle, Jon ; Buckley, James | Transcriptome-wide expression variation associated with environmental plasticity and mating success in the cactophilic <i>Drosophila majavensis</i> Smith, Gilbert ; de Oliveira, Cassia C; Etges, William J; Ritchie, Michael G | Non-parallelism in MHCII β divergence matches non-parallelism in the microbial environment of lake whitefish species pairs Pavey, Scott A. ; Sevellec, Maelle; Normandeau, Eric; Boutin, Sebastien; Lamaze, Fabien C.; Bernatchez, Louis |
| Lack of genetic differentiation between monarch butterflies with divergent migration destinations Pierce, Amanda ; Lyons, Justine; Barribeau, Seth; Sternberg, Eleanore; Mongue, Andrew; De Roode, Jacobus | The shape of selection: matching empirical fitness functions to theoretical predictions for flowering time in annuals Weis, Arthur E. ; Franks, Steven | Genomic architecture of adaptive divergence in the soapberry bug ecotypes in Florida Yu, Yue ; Andres, Jose | Temporal dynamics for infection in sexual vs. asexual snails Vergara, Daniela ; Lively, Curt |
| <p>CSEE Presidential Address – Spencer Barrett 4:45 – 5:45 pm, Canada Hall 2-3</p> <p>Advancing diversity in evolution: faculty mentoring panel, discussion & social 7:00 - 8:30 pm, Rm. 201</p> <p>CSEE public outreach talk – Rosie Redfield 7:30 – 8:30 pm, Canada Hall 2-3</p> <p>CSEE night-cap Mixer 8:30 - 10:00 pm, Trillium Ballroom</p> | | | |

Sunday, July 8 | 3:15 – 4:45 pm

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|---------|--|---|---|---|
| | Sexual selection & mating systems 8 | Life history studies 8 | Molecular evolution 5 | Phylogeography 5 |
| 3:15 pm | Male mate choice in the fruit fly, <i>Drosophila melanogaster</i> Edward, Dominic ; Chapman, Tracey | Life history plasticity of a tropical seabird in response to El Niño-related anomalies during early life Ancona, Sergio ; Drummond, Hugh | The Simple Fool's Guide to Population Genomics: an introduction and a case study on gene flow and local adaptation in Red Abalone De Wit, Pierre ; Palumbi, Stephen R | Comparative phylogeography of endemic fish species in a biodiversity hotspot, the lower Congo River Alter, Elizabeth ; Stiassny, Melanie |
| 3:30 pm | Sperm evolve in response to selection for extremely early or late reproduction in <i>Drosophila</i> Han, Xu ; Chippindale, Adam; Pitnick, Scott; Montgomerie, Bob | Thermal optima shifts in larval <i>Colias</i> butterflies. Higgins, Jessica K. ; MacLean, Heidi J.; Buckley, Lauren B.; Kingsolver, Joel G. | Copy number of the Pokey transposon family within the <i>Daphnia pulex</i> complex Eagle, Shannon ; Crease, Teresa | Diversification and dispersal in the reef: Phylogeography of <i>Mulloidichthys</i> goatfishes Fernandez-Silva, Iria ; Bowen, Brian W. |
| 3:45 pm | Consequences of recent colonisation on sexual selection and mating system in a lizard Heathcote, Robert ; Uller, Tobias | The effect of juvenile and adult diet on ageing and age-dependent reproductive effort Houslay, Thomas ; Bussière, Luc | Massive horizontal gene transfer in a plant mitochondrial genome Jain, Kanika ; Zhang, Yizhong; Mower, Jeffrey P. | Egyptian fruit bat: environmental margin and peripatry in the Mediterranean region Hulva, Pavel ; Maresova, Tereza; Dundarova, Cheliana; Bilgin, Rasit; Benda, Petr; Bartonicka, Tomas; Horacek, Ivan |
| 4:00 pm | Female settlement and male mate choice: a how to guide to maximizing fitness for both sexes Kasumovic, Michael ; Kokko, Hanna; Jordan, Alex | Supply-side ecology in deep waters: spatial variation of coral recruitment in the Gulf of Maine Lacharite, Myriam ; Metaxas, Anna | Population genetics of chewing lice (<i>Geomydeocus</i> sp.) Nessner, Caitlin ; Light, Jessica; Andersen, John; Welborn, Sarah | Using population genetics and historical samples to test the idea that <i>Nosema</i> in North American bumble bees are recent invaders from Europe Lim, Haw C ; Cameron, Sydney; Lozier, Jeffrey; Thorp, Robbin |
| 4:15 pm | Choosy females get sexy sons more than good genes, meta-analysis suggests Prokop, Zofia ; Michalczyk, Lukasz; Drobniak, Szymon; Herdegen, Magdalena; Radwan, Jacek | Paternity and relatedness in the Gooseneck barnacle, <i>Pollicipes elegans</i> Plough, Louis ; Marko, Peter | Evidence for selection on a chordate histocompatibility locus Nydam, Marie ; De Tomaso, Athony | Multilocus phylogeny and phylogeographic patterns in freshwater fishes from the subgenus <i>Mollienesia</i> (<i>Poecilia</i> , Poeciliidae: Cyprinodontiformes) Palacios Mejia, Maura ; Tobler, Michael; Mateos, Mariana |
| 4:30 pm | The Mathematics of female signalling Umbers, Kate ; Symonds, Matthew; Kokko, Hanna | Selection-delayed baleen whale population dynamics Witting, Lars | Phylogenomics reveals the early evolution of meiosis and eukaryotic DNA strand exchange Pightling, Arthur ; Logsdon Jr., John M. | Phylogeography of endemic damselfishes in the Hawaiian archipelago Tenggardjaja, Kimberly ; Bowen, Brian; Bernardi, Giacomo |

CSEE Presidential Address – Spencer Barrett | 4:45 – 5:45 pm, Canada Hall 2-3
 Advancing diversity in evolution: faculty mentoring panel, discussion & social | 7:00 - 8:30 pm, Rm. 201
 CSEE public outreach talk – Rosie Redfield | 7:30 – 8:30 pm, Canada Hall 2-3
 CSEE night-cap Mixer | 8:30 - 10:00 pm, Trillium Ballroom

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|--|--|--|
| Genomics 4 | Speciation / hybridization 5 | Hybridization / speciation 7 | Species interactions & coevolution 6 |
| The evolution and genetic basis of brain cortical gyrification in a pedigreed primate population Atkinson, Elizabeth; Cheverud, James; Rogers, Jeffrey | More skepticism towards Santa Rosalia: why are there so few kinds of corals with limited dispersal? Carlson, David B. | Spermatogenic changes during breakdown of an isolating barrier between two recently diverged subspecies of <i>Drosophila</i> Alpern, Josh; Moehring, Amanda | Do cheating symbionts and sanctioning hosts coevolve in mutualisms? Frederickson, Megan |
| Investigating patterns of parallel divergence in reproductive ecotypes of kokanee salmon (<i>Oncorhynchus nerka</i>) Frazer, Karen; Russello, Michael | An integrative analysis of cryptic black fly species Conflitti, Ida M.; Shields, Gerald F.; Murphy, Robert W.; Currie, Douglas C. | Drivers of hybridization in a 66-generation record of <i>Colias</i> butterflies Jahner, Joshua; Shapiro, Arthur; Forister, Matthew | Bacterial symbiosis as an adaptation in the evolution of insects Henry, Lee; Godfray, Charles |
| Modelling transcriptional reaction norm evolution in <i>Saccharomyces cerevisiae</i> Hodgins-Davis, Andrea; Adomas, Aleksandra; Rice, Daniel; Townsend, Jeffrey | On the parameter space of chromosomal speciation – a simulation framework Faria, Rui; Rambla, Jordi; Feder, Jefferey; Navarro, Arcadi | Molecular analysis of sterile hybrid males in <i>Drosophila</i> Kanippayoor, Rachelle; Moehring, Amanda | Plant-pathogen coevolution: the maintenance of an ancient balanced resistance polymorphism in <i>Arabidopsis thaliana</i> populations Karasov, Talia; Kniskern, Joel; Gao, Liping; Barrett, Luke; Bergelson, Joy |
| Repeatability in evolution varies with scale and the nature of selection Perry, Elizabeth; Bohannan, Brendan | Patterns of genomic introgression across two transects of the field cricket hybrid zone Larson, Erica; Andres, Jose Bogdanowicz, Steven; Harrison, Richard | Genetic population structure of a ring species: the New World buckeye butterflies (genus <i>Junonia</i>) Marcus, Jeffrey | |
| Association mapping to understand the genetics of complex traits: analyses of a legume-rhizobia symbiosis reveal that full sequence data avoid some pitfalls from SNP platform data Stanton-Geddes, John; Tiffin, Peter; Young, Nevin; Yoder, Jeremy; Paape, Tim; Epstein, Brendan | Ecological measures of selection in divergent ecotypes of <i>Littorina saxatilis</i> Webster, Sophie; Grahame, John; Butlin, Roger | Diversity of reproductive barriers found in crickets suggests different modes of coexistence and speciation Veen, Thor | |
| | Introgressive hybridization as a branching process, how far can we simplify? Yanchukov, Alexey; Proulx, Stephen | Genotypic and reproductive analyses of species barriers in two closely related sympatric Hawaiian picture-winged <i>Drosophila</i> , <i>D. sproati</i> and <i>D. murphyi</i> Wright, Tani; Price, Donald | |

CSEE Presidential Address – Spencer Barrett | 4:45 – 5:45 pm, Canada Hall 2-3
Advancing diversity in evolution: faculty mentoring panel, discussion & social | 7:00 – 8:30 pm, Rm. 201
CSEE public outreach talk – Rosie Redfield | 7:30 – 8:30 pm, Canada Hall 2-3
CSEE night-cap Mixer | 8:30 – 10:00 pm, Trillium Ballroom

| | | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 |
|--|---|---|--|---|--|
| | | SSE Symposium - 'Next-generation' genomics of parallelism and convergence | ASN Symposium - Towards an evolutionary community ecology | Adaptation & evolutionary ecology 2 | Behaviour & social evolution 6 |
| 8:30 am | Genomics of parallelism and convergence – quo vadis? Where is the field now and where will it - hopefully - be in a few years? Meyer , Axel | | Opening remarks Travis, Joseph | Understanding the role of plasticity and genetic variation in parallel invasion fronts: Study of the range expansion of <i>Erodium cicutarium</i> in Chile and California Baythavong, Brooke ; Latimer, Andrew; Gianoli, Ernest | A lifetime of responding to rivals: Male behavioural plasticity in <i>Drosophila melanogaster</i> Bretman, Amanda ; Gage, Matthew; Chapman, Tracey |
| 8:45 am | | | The role of local adaptation in community evolution: lessons from Trinidadian streams Bassar, Ronald | Ongoing natural selection on White Sands Lizards Des Roches, Simone ; Brinkmeyer, Michaela; Howells, Jacqueline; Hoyer, Isaiah; Morgan, Travis; Pohl, Karen; Harmon, Luke J.; et al. | Is variation in anti-predator behavioural flexibility in larval <i>Enallagma damselfly</i> adaptive? Brown, Allison ; Robinson, Beren |
| 9:00 am | Investigating and understanding the non-parallel side of parallelism Bernatchez, Louis | | Food web structure and the potential for eco-evolutionary dynamics Becks, Lutz ; Ellner, Stephen P.; Jones, Laura E.; Hairston, Nelson G., Jr. | Joint mutational effects on fitness and metric traits McGuigan, Katrina ; Blows, Mark | The evolution of altruism in a two-patch, heterogeneous environment Maciejewski, Wes |
| 9:15 am | | | | Axes of ecophysiological variation explain trait-environment correlations in wild tomatoes (<i>Solanum</i> sect. <i>Lycopersicon</i>) Muir, Christopher ; Davis, Phillip; Conesa, Miquel Àngel; Galmés, Jeroni; Moyle, Leonie | Two means to an end? Evolution of the aposematic syndrome in poison-dart frogs of the genus <i>Phylllobates</i> Márquez, Roberto ; Arenas, Lina María; Escovar, Tatiana; Amézquita, Adolfo |
| 9:30 am | Natural selection, sexual selection, and the genomics of convergent evolution in White Sands lizards Rosenblum, Erica (Bree) | | Evolution and community assembly Gomulkiewicz, Richard ; Jones, Emily; Nuismer, Scott; Holt, Robert D. | How predictable is flowering time evolution?: GxE and a putative mechanism of selection in North American populations of <i>Arabidopsis thaliana</i> Stock, Amanda ; McGoey, Brechann; Stinchcombe, John | Assortment, co-evolutionary feedback, and the evolution of culture McNally, Luke ; Jackson, Andrew |
| 9:45 am | | | | Adaptive evolution and positive selection in rhodopsin: the dN/dS debate Yu, D. David ; Chang, Belinda S.-W. | The evolution of sociality: differential fertility, social influence and ontogeny of the sterile caste Shukla, Shantanu ; Chandran, Swarnalatha; Gadagkar, Raghavendra S.-W. |
| Morning coffee break 10:00 – 10:30 am | | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|---|---|--|--|
| Biogeography, bioinformatics & computational biology | Contemporary evolution 2 | Ecological genetics 7 | Evolutionary ecology & genetics |
| Harnessing the world's biodiversity data: how do recent advances in ecological niche modeling inform and demand future progress in biodiversity informatics? Anderson, Robert | Temperature induced physiological and adaptive responses in the guppy (<i>Poecilia reticulata</i>) Breckels, Ross ; Neff, Bryan | Species distributions and population structure of cold seep vestimentiferan tubeworms Cowart, Dominique ; Fisher, Charles; Schaeffer, Stephen | Models of genetic effects with multiple alleles and applications to study the action of selection Álvarez-Castro, José M. ; Le Rouzic, Arnaud; Yang, Rong-Cai |
| Miocene hoofed mammal range size and occupancy under conditions of global climate change Fraser, Danielle ; Gorelick, Root; Rybczynski, Natalia | Linking macro-theories with micro-rates: micro-evolutionary support for Cope's rule? Gotanda, Kiyoko ; Cristián Correa; Turcotte, Martin; Hendry, Andrew | Ecological genetics of host plant adaptation in the Glanville fritillary butterfly de Jong, Maaïke ; Lehtonen, Rainer; Wong Chong, Swee; Hanski, Ilkka | Distinct evolutionary trajectories via compensatory evolution in developmentally perturbed populations: A tale of 4 mutations & 44 populations Chari, Sudarshan ; Dworkin, Ian |
| Statistical analysis of biogeography when the number of areas is large Landis, Michael ; Matzke, Nick; Moore, Brian; Huelsenbeck, John | Consequences of fisheries-induced evolution for recovery potential and extinction risk Kuparinen, Anna ; Hutchings, JA | Reproductive character displacement and gene expression Higgie, Megan ; McGraw, Elizabeth; Blows, Mark | The effects of competition on the strength and softness of selection Ho, Ka Ho Eddie ; Agrawal, Aneil F. |
| The role of seismic trails in forest fragmentation Pattison, Colin ; Quinn, Michael; Dale, Pat; Catterall, Carla | Changing the slope of an allometry using artificial selection: How we did it Stillwell, R. Craig ; Shingleton, Alexander W.; Dworkin, Ian; Frankino, W. Anthony | The effective size of a small isolated Atlantic salmon (<i>Salmo salar</i>) population, and the importance of precocious parr in maintaining genetic variation in the wild Johnstone, Devon ; Ruzzante, Daniel | Climate change in the North Atlantic: Selection and local adaptation on the rocky shore Jüterbock, Alexander ; Coyer, Jim; Olsen, Jeanine L.; Fernandes, Jorge; Hoarau, Galice |
| Dispersal limitation and pH tolerance among freshwater diatoms: a critical review of the evidence Pither, Jason | The evolutionary effects of size-selective harvesting Uusi-Heikkilä, Silva ; Whiteley, Andrew; Kuparinen, Anna; Slate, Jon; Wolter, Christian; Arlinghaus, Robert | Eco-genomics of turtle sex determination in the wild and its evolutionary implications Valenzuela, Nicole ; Neuwald, Jennifer; Literman, Robert | Host matching in sperm-dependent asexual fish Mee, Jon |
| The beta-diversity of species interactions: unifying network theory and biogeography Poisot, Timothée ; Canard, Elsa; Mouillot, David; Mouquet, Nicolas; Gravel, Dominique | The evolutionary consequences of long-term nitrogen addition for the legume-rhizobium resource mutualism Weese, Dylan ; Heath, Katy; Dentinger, Bryn; Lau, Jennifer | Inferring the genetic mechanisms of divergence in dispersal traits under homogenizing gene flow in a wing polymorphic ground beetle Van Belleghem, Steven ; Hendrickx, Frederik | Neotropical ant community structure and biodiversity dynamics along an elevation gradient Warne, Connor ; Smith, M. Alex |
| Morning coffee break 10:00 – 10:30 am | | | |

Monday morning 1

Monday, July 9 | 8:30 – 10:00 am

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|--|--|--|---|---|
| | Genomics & plants 2 | Molecular evolution 6 | Systematics 1 | Phylogeography & gene flow |
| 8:30 am | <p>Genotyping-by-sequencing: a case study in <i>Linum</i> species</p> <p>Fu, Yong-Bi</p> | <p>Insights and surprises from the evolutionary response to altered codon usage</p> <p>Agashe, Deepa; Wang, Jue; Polachek, William; Marx, Christopher</p> | <p>Phylogenetic relationship within the genus <i>Staurois</i> (Anura, Ranidae) based on 16S rRNA sequences</p> <p>Arifin, Umilaela; Iskandar, Djoko; Bickford, David; Brown, Rafe; Meier, Rudolf; Kutty, Sujatha</p> | <p>Long distance gene flow, demographic history and niche differentiation in Caribbean basin pines</p> <p>Jardón-Barbolla, Lev; Vázquez-Lobo, Alejandra; Figueroa, Laura; Delgado-Valerio, Patricia; Rebolledo, Virginia; Geada-López, Gretel; Ortega-Del Vecchio, Diego; et al.</p> |
| 8:45 am | <p>Characterizing patterns of gene expression and the selective forces which shape them in <i>Capsella grandiflora</i></p> <p>Josephs, Emily B; Williamson, Robert J; Hazzouri, Khaled M; Stinchcombe, John R; Wright, Stephen I</p> | <p>Characterising intra-specific and inter-specific evolution of Conserved Noncoding Elements (CNEs)</p> <p>De Silva, Dilrini; Nichols, Richard; Elgar, Greg</p> | <p>Broad gene sampling reveals the pattern and tempo of ray-finned fish evolution</p> <p>Broughton, Richard; Li, Chenhong; Betancur, Ricardo; Arratia, Gloria; Orti, Guillermo</p> | <p>Population genomics of three endemic and endangered animal taxa in a large freshwater spring complex</p> <p>Lucas, Lauren; Gompert, Zach; Buerkle, Alex; Nice, Chris</p> |
| 9:00 am | <p>A spruce gene map indicates ancient plant genome reshuffling and slow evolution in the gymnosperm lineage leading to extant conifers</p> <p>Pavy, Nathalie; Pelgas, Betty; Laroche, Jérôme; Rigault, Philippe; label, Nathalie; Bousquet, Jean</p> | <p>Estimating recombination in sex chromosomes of hylid frogs</p> <p>Guerrero, Rafael F; Kirkpatrick, Mark; Perrin, Nicolas</p> | <p>Resolving the bush at the top of the teleost tree: identifying the sister lineage to cichlids</p> <p>Eytan, Ron I.; Near, Thomas J.</p> | <p>Phylogeography of the antitropical Eastern Pacific barnacle <i>Pollicipes elegans</i></p> <p>Marchant, Sergio; Marko, Peter</p> |
| 9:15 am | <p>Evolution of transposable elements (TEs) among cacao varieties (<i>Theobroma cacao</i>) and related species revealed by low-coverage Illumina sequencing</p> <p>Sveinsson, Saemundur; Gill, Navdeep; Kane, Nolan; Cronk, Quentin</p> | <p>Sex, position in a pathway, and molecular evolution of flavanoid genes</p> <p>Hersch-Green, Erika; Myburg, Henrieta; Johnson, Marc</p> | <p>A new species of leopard frog (Anura: Ranidae) from the urban northeastern US</p> <p>Newman, Catherine E.; Feinberg, Jeremy A.; Rissler, Leslie J.; Burger, Joanna; Shaffer, H. Bradley</p> | <p>Inferring ancestry of genomic regions in cattle of hybrid origin</p> <p>McTavish, Emily Jane; Hillis, David M.</p> |
| 9:30 am | <p>Chromosome number doubling independent of polyploidy in monkeyflowers</p> <p>Vision, Todd; Clarke, Thomas; Fishman, Lila</p> | <p>Toward computationally feasible evolutionary inference with biologically plausible models</p> <p>Strope, Cory L; Thorne, Jeffrey L</p> | <p>Understanding discordance between diverse datasets in an integrative taxonomy: a case study in ground squirrels</p> <p>Phuong, Mark; Lim, Marisa; Wait, Dan; Rowe, Kevin; Smith, Adam; Moritz, Craig</p> | <p>Riverine barriers and speciation cascades in <i>Pseudacris feriarum</i>: A Bayesian model comparison approach</p> <p>Michelsohn, Moses</p> |
| 9:45 am | <p>Genetics of floral form diversity: towards solving Darwin's "abominable mystery"</p> <p>Yuan, Yao-Wu; Bradshaw, Toby</p> | <p>Parallel adaptation to hummingbird pollination in <i>Penstemon</i> involves repeated nonfunctionalization of the same flower color enzyme</p> <p>Wessinger, Carolyn; Rausher, Mark</p> | <p>Do coral reefs drive diversification in marine teleosts?</p> <p>Santini, Francesco; Sorenson, Laurie; Alfaro, Michael</p> | <p>Evidence for northern refugia and post-glacial expansion of an endangered member of the Atlantic Coastal Plain species <i>Sabatia kennedyana</i></p> <p>Suarez-Gonzalez, Adriana; Good, Sara V.</p> |
| Morning coffee break 10:00 – 10:30 am | | | | |

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|---|--|--|
| <p>Macroecology</p> <p>Rethinking the 'central' premise of evolutionary models of the range: Physiological data predict range margins without invoking marginal adaptation and stymieing core-to-peripheral gene flow</p> <p>Bernardo, Joseph; Agosta, Salvatore J.; Spotila, James R.</p> | <p>Speciation / hybridization 6</p> <p>A recently introgressed haplotype under selection in both <i>Drosophila simulans</i> and <i>D. sechellia</i></p> <p>Brand, Cara L; Kingan, Sarah B; Garrigan, Daniel</p> | <p>Amphibian speciation / hybridization & coevolution</p> <p>Parapatric divergence of sympatric morphs in a salamander</p> <p>Fisher-Reid, M. Caitlin; Engstrom, Tag N.; Kuczynski, Caitlin A.; Stephens, Patrick R.; Wiens, John J.</p> | <p>Sexual selection & mating systems 9</p> <p>How can a sexual antagonistic male trait regulate female reproductive processes – a test of candidate microRNAs</p> <p>Fricke, Claudia; Smith, Damian; Green, Darrell; Chapman, Tracey</p> |
| <p>Population dynamics in space and time: prairie ducks and environmental change</p> <p>Feldman, Richard; Murray, Dennis; Howerter, David; Devries, Jim; Anderson, Michael; Podruzny, Kevin</p> | <p>Gene flow in <i>Neolamprologus</i> cichlids</p> <p>Gante, Hugo; Salzburger, Walter</p> | <p>Conspicuousness in a Batesian mimetic system as seen through the eyes of predators</p> <p>Kraemer, Andrew C.; Adams, Dean C.</p> | <p>Size-dependent response to male harassment by female mosquitofish</p> <p>Jeffery, Erica</p> |
| <p>Are trait data consistent between sources? An evaluation with the butterflies of Canada</p> <p>Fitzsimmons, Jay</p> | <p>Sibling competition arena: selfing and a competition arena can combine to constitute a barrier to gene flow in sympatry</p> <p>Gibson, Amanda; Hood, Michael; Giraud, Tatiana</p> | <p>Speciation in reverse? Evidence for extensive gene flow and weak pre- and post-zygotic isolation in two hybridizing salamanders</p> <p>Lehtinen, Richard, M.</p> | <p>Genotype- by- environment interactions on male attractiveness and competitive success in leaf-footed cactus bugs</p> <p>Miller, Christine; Moore, Allen</p> |
| <p>Strong influence of regional species pools on continent-wide structuring of local ant communities</p> <p>Lessard, Jean-Philippe; Borregaard, Michael; Fordyce, James; Rahbek, Carsten; Dunn, Rob; Sanders, Nathan</p> | <p>Multi-population IM analysis untangles the history of divergence and introgression of three species in the northern oriole group</p> <p>Jacobsen, Frode; Omland, Kevin E</p> | <p>Evaluating the effects of natural selection and genetic drift in driving divergence between populations of the lesser treefrog (<i>Dendropsophus minutus</i>) along the Amazon-Cerrado gradient.</p> <p>Oyamaguchi, Hilton; Smith, Thomas</p> | <p>Sexual conflict in sympatry</p> <p>Tatarnic, Nikolai; Gerry Cassis</p> |
| <p>Phylogenetic approaches to diversification</p> <p>Morlon, Hélène</p> | <p>Mapping the genetic architecture of reproductive isolation and species differences in natural hybrid zones</p> <p>Lindtke, Doro; Buerkle, Alex; Gonzalez Martinez, Santiago; Lexer, Christian</p> | <p>Are secondary contact zones a finishing school for species? Testing for reinforcement in a temperate frog.</p> <p>Stewart, Kathryn; Austin, Jim; Loughheed, Stephen</p> | <p>Assessing territoriality as a component of male sexual fitness in <i>Drosophila serrata</i></p> <p>White, Alison; Rundle, Howard D.</p> |
| <p>Divergent and narrower climatic niches characterize polyploid species of European primroses in <i>Primula</i> sect. Aleuritica</p> <p>Theodoridis, Spyros; Randin, Christophe; Broennimann, Olivier; Theofania, Patsiou; Conti, Elena</p> | <p>Detecting selection by mapping gene flow across the genome in isolation with migration models</p> <p>Sousa, Vitor C; Hey, Jody</p> | <p>Phenotypic and genetic divergence in the Peruvian mimic poison frog</p> <p>Twomey, Evan; Yeager, Justin; Brown, Jason; Cummings, Molly; Summers, Kyle</p> | <p>The effect of sexual selection on non-sexual fitness in <i>Drosophila melanogaster</i> depends on population history</p> <p>Zhu, Jing; Fry, James D.</p> |
| <p>Morning coffee break 10:00 – 10:30 am</p> | | | |

Monday, July 9 | 10:30 am – 12:00 noon

| | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 |
|--|--|--|---|--|
| | SSE Symposium - 'Next-generation' genomics of parallelism and convergence | ASN Symposium - Towards an evolutionary community ecology | Adaptation & evolutionary ecology 3 | Behaviour & social evolution 7 |
| 10:30 am | Rewinding the tape of life: genomics of adaptation and parallelism in evolving microbial populations Kassen, Rees | Biodiversity and climate change: integrating evolutionary and ecological responses of species and communities Ronce, Ophélie; Lavergne, Sébastien | Sperm functions evolve differently in different environments: male reproductive success under hypoxia and hypercapnia Dobler, Ralph; Charette, Marc; Kaplan, Katrin; Rundle, Howard D.; Reinhardt, Klaus | The ecology and evolution of kin recognition in guppies (<i>Poecilia reticulata</i>) Hain, Tim; Neff, Bryan |
| 10:45 am | | | Using the mean and variance to determine differential selection on two linked traits for larval wood frogs (<i>Lithobates sylvaticus</i>) from two distinct populations Edge, Christopher; Thompson, Dean; Houlihan, Jeff | Circadian rhythms and gene expression in harvester ants Ingram, Krista; Gordon, Deborah; Greene, Michael |
| 11:00 am | Unraveling the genetic basis of convergent flower colors in <i>Aquilegia</i> using RNAseq, population resequencing and QTL mapping Hodges, Scott | Stasis and recent evolution: complementary dimensions of American oak community structure and biogeography Cavender-Bares, Jeannine; Buelke, Anne; Gonzalez-Rodriguez, Antonio; Severson, Jeanne-Romero; Hipp, Andrew; Eaton, Deren; Manos, Paul | Evolution of a complex morphological trait: gill rakers in freshwater suckers Hirt, M. Vincent | Making a successful male: reproductive success in a pest insect, the Mediterranean fruit fly Leftwich, Philip Thomas; Gage, Matthew; Alphey, Luke; Chapman, Tracey |
| 11:15 am | | | Evolution of male coloration during a post-pleistocene radiation of bahamas mosquitofish (<i>Gambusia hubbsi</i>) Martin, Ryan; Riesch, Rüdiger; Langerhans, Brian | The genetic basis of behavior: evolution of burrowing in deer mice Metz, Hillery; Hoekstra, Hopi |
| 11:30 am | Parallel adaptation by predominantly regulatory changes in threespine sticklebacks Jones, Felicity | Macroevolutionary ecology: feedbacks among microevolution, macroevolution and community structure McPeck, Mark | Environmental effects on evolutionary potential of wild bird populations Porlier, Melody; Charmantier, Anne; Garant, Dany | Is there a social ecology of chemical defence? Speed, Mike |
| 11:45 am | | | 12:00 - 12:05 Concluding thoughts Holt, Robert D. | Natural selection and morphological differentiation between populations of <i>Rhinella marina</i> (Amphibia: Anura) in southwestern Mexico Vega-Trejo, Regina; Zúñiga-Vega, J. Jaime; Langerhans, R. Brian |
| <p>Lunch (provided) 12:00 – 1:15 pm</p> <p>'Bring your lunch' events: ASN business meeting (Rm. 106)</p> <p>NSERC information sessions:</p> <p>Discovery Grants Program (Rm. 102) Student Scholarships & PDF Fellowships (Rm. 104)</p> | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|--|---|--|--|
| Bioinformatics & computational biology 1 | Contemporary evolution 3 | Ecological genetics 8 | Evolutionary genetics & evolutionary theory |
| <p>Screening for transposable element induced adaptation in <i>Drosophila</i> detecting structural variations using T-lex in population next-generation sequencing data</p> <p>Fiston-Lavier, Anna-Sophie; Barron, Maite; Gonzalez, Josefa; Petrov A, Dmitri</p> | <p>The relative roles of phenotypic plasticity and adaptive evolution in advancing flowering phenology in response to climate change</p> <p>Anderson, Jill; Inouye, David; McKinney, Amy; Colautti, Robert; Mitchell-Olds, Tom</p> | <p>Stick insects in the cold: comparing RNASeq and physiology across genera</p> <p>Dennis, Alice; Dunning, Luke; Newcomb, Richard; Sinclair, Brent; Buckley, Thomas</p> | <p>Population divergence of transcriptomes across an old phylogeographic break: positive selection and historical demography in gamete recognition genes of a Pacific sea star</p> <p>Hart, Michael</p> |
| <p>Haplotype analysis of pooled reads from a selection experiment</p> <p>Kessner, Darren; Novembre, John</p> | <p>Can we predict gene flow in insect-pollinated plants?</p> <p>Brunet, Johanne; Zhao, Yang; Van Etten, Megan; Clayton, Murray</p> | <p>Population structure and dispersal dynamics of the common bedbug, <i>Cimex lectularius</i></p> <p>Fountain, Toby; Otti, Oliver Reinhardt, Klaus; Butlin, Roger</p> | <p>The joint evolution of plasticity and dispersal rate</p> <p>Scheiner, Samuel M.; Barfield, Michael; Holt, Robert D.</p> |
| <p>Finding microbial species: taxonomic unit discovery using SSU ribosomal RNA sequences at a global scale</p> <p>Matias Rodrigues, João F.; von Mering, Christian</p> | <p>Experimental evolution reveals the costs and benefits of large brain size in a vertebrate</p> <p>Kotrschal, Alexander; Bjorn, Rogell; Maklakov, Alexei A.; Bundsen, Andreas; Svensson, Beatrice; Kolm, Niclas</p> | <p>Exploring evolutionary and ecological causes of a dynamic species boundary in cricket frogs</p> <p>Haenel, Greg; Strelow, Bryan; Micancin, Jonathan</p> | <p>Sexual selection can reduce mutation load in <i>Drosophila melanogaster</i></p> <p>Sharp, Nathaniel; Vincent, Crystal; Agrawal, Aneil</p> |
| <p>A new way to visualize the tree of life</p> <p>Rosindell, James; Harmon, Luke</p> | <p>Differentiation of reproductive and competitive ability in the invaded range of <i>Senecio inaequidens</i>: the role of genetic Allee effects, adaptive and nonadaptive evolution</p> <p>Lachmuth, Susanne; Durka, Walter; Schurr, Frank M.</p> | <p>Genomics in the wild: genome-wide association studies reveal a genetic contribution to life history strategy in wild Atlantic salmon</p> <p>Johnston, Susan E.; Kent, Matthew P.; Lien, Sigbjørn; Niemelä, Eero; Erkinaro, Jaakko; Primmer, Craig R.</p> | <p>On evolutionary rescue in structured populations</p> <p>Uecker, Hildegard; Otto, Sarah P.; Hermisson, Joachim</p> |
| <p>MULTICLUST multinomial clustering of multi-locus genotype data to infer genetic subpopulation structure</p> <p>Sethuraman, Arun; Chen, Wei-Chen; Dorman, Karin</p> | <p>Life-history trade-offs and individual demographic contributions in a pre-industrial human population in Quebec</p> <p>Milot, Emmanuel; Bergeron, Patrick; Réale, Denis; Mayer, Francine M.; Boisvert, Mireille; Pelletier, Fanie</p> | <p>Divergent selection in the silverleaf sunflower, <i>Helianthus argophyllus</i></p> <p>Moyers, Brook; Rieseberg, Loren</p> | <p>The importance of genomic rearrangements for the evolution of islands of divergence under migration-selection balance</p> <p>Yeaman, Sam</p> |
| <p>Biodiversity informatics: Problems and challenges for an emerging computational science</p> <p>Stamatakis, Alexandros</p> | <p>Spatiotemporal divergence of threespine stickleback in a dynamic natural system - Lake Myvatn, Iceland</p> <p>Räsänen, Katja; Millet, Antoine; Einarsson, Arni; Kristjansson, Bjarni</p> | <p>Estimating heterogeneity in the form of phenotypic selection among populations using b-splines</p> <p>Ott, James; Reynolds, Richard; Egan, Scott; de los Campos, Gustavo</p> | |
| <p>Lunch (provided) 12:00 – 1:15 pm</p> <p>'Bring your lunch' events: ASN business meeting (Rm. 106)</p> <p>NSERC information sessions:</p> <p>Discovery Grants Program (Rm. 102) Student Scholarships & PDF Fellowships (Rm. 104)</p> | | | |

Monday, July 9 | 10:30 am – 12:00 noon

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|----------|---|---|---|--|
| | Genomics 5 | Molecular evolution 7 | Systematics 2 | Phylogeography 6 |
| 10:30 am | No water, no pee, no problem! Using genomics to understand adaptation to desert life in <i>Peromyscus eremicus</i> MacManes, Matthew | Worldwide population structure and evolution of the endosymbiont <i>Wolbachia pipientis</i> wMel: insights from next-generation sequencing Early, Angela ; Unckless, Robert; Clark, Andrew | Phylogeny-informed PCR-amplification primer design for the assessment of terrestrial arthropod biodiversity using next-generation sequencing Gibson, Joel ; Hajibabaei, Mehrdad | Mitochondrial and nuclear gene sequences show conflicting patterns of genetic structure in the coral reef sponge <i>Callyspongia vaginalis</i> DeBiasse, Melissa ; Hellberg, Michael |
| 10:45 am | Insights to the immunity and osmoregulation of Heteromyid rodents from RNA-seq Marra, Nicholas ; Romero, Andrea; Waser, Peter; DeWoody, Andrew | Unveiling the past: using a modified version of Tajima's D statistic to distinguish between the effects of drift and selection Kopp, Nathan ; Colin Teberg; Ryan, Pamela J.; Weisstein, Anton E. | Identifying endosymbiont diversity across minor scale insect families Gruwell, Matthew E ; Gaw, Tim; Duda, Zach | Phylogeography of prickly sculpin (<i>Cottus asper</i>) in the Pacific Northwest Dennenmoser, Stefan ; Vamosi, Steven; Rogers, Sean M. |
| 11:00 am | Insights from de novo sequence assembly of the blue-eyed black lemur (<i>Eulemur flavifrons</i>) genome Meyer, Wynn ; Venkat, Aarti; Kermany, Amir; Michelini, Katelyn; Andolfatto, Peter; Przeworski, Molly | From molecular genetics to phylodynamics: evolutionary relevance of mutation rates across viruses Sanjuan, Rafael | Using species-tree methods to resolve deep phylogenies Lanier, Hayley C ; Knowles, L. Lacey | Phylogeography of the marine invertebrate <i>Corophium volutator</i> in the North Atlantic Einfeldt, Anthony ; Addison, Jason |
| 11:15 am | The evolutionary implications of genome rearrangements on the genetic architecture of salinity tolerance in Atlantic salmon (<i>Salmo salar</i>) Norman, Joseph D. ; Robinson, Mike; Ferguson, Moira M.; Glebe, Brian; Danzmann, Roy G. | Evolution of vacuolar proton pyrophosphatase domains and volutin granules: clues into the early evolutionary origin of the acidocalcisome Seufferheld, Manfredo ; Whitfield, James; Kyung, Mo Kim; Valerio, Alejandro; Caetano-Anollés, Gustavo | Out of Africa: a molecular phylogeny of the tribe Platyleurini Schmidt, 1918 (Hemiptera: Cicadidae) Price, Benjamin ; Villet, Martin; Barker, Nigel | Mitogenome sequencing: applications in population genetic studies Jacobsen, Magnus ; Hansen, Michael; Bernatchez, Louis; Bekkevoold, Dorte; Gilbert, Tom |
| 11:30 am | A novel application of ecological analyses to explain transposable element distribution: <i>Bos taurus</i> genome Saylor, Brent ; Elliot Tyler A.; Linquist, Stefan; Kremer, Stefan C.; Gregory, T. Ryan; Cottenie, Karl | Functional evolution of an anthocyanin pathway enzyme during a flower color transition Smith, Stacey ; Wang, Shunqi; Rausher, Mark | Taxonomy and conservation of <i>Apodemia mormo</i> (Lepidoptera: Riodinidae) in North America Proshek, Ben; Sperling, Felix | The meiofauna paradox unresolved: Cryptic speciation in <i>Gytratrix hermaphroditus</i> (Kalyptorhynchia, Platyhelminthes) Tessens, Bart ; Jordaens, Kurt; Van Steenkiste, Niels; Breeman, Floris; Backeljau, Thierry; Artois, Tom |
| 11:45 am | Programmed deletion of billions of bases of repetitive DNA during copepod development Wyngaard, Grace ; Sun, Cheng; Walton, Brian; Wichman, Holly; Mueller, Rachel | | Evolutionary and biogeographic relationships of dreissenid mussels (Bivalvia: Mollusca) Stepien, Carol ; Grigorovich, Igor | Partitioning of nuclear and chloroplast variation at multiple spatial scales in the Neotropical epiphytic orchid, <i>Brassavola nodosa</i> Trapnell, Dorset W. ; Ishibashi, Caitlin; Kartzinel, Tyler R. |

Lunch (provided) | 12:00 – 1:15 pm

'Bring your lunch' events: ASN business meeting (Rm. 106)

NSERC information sessions:

Discovery Grants Program (Rm. 102) | Student Scholarships & PDF Fellowships (Rm. 104)

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|--|--|--|
| Macroevolution 1 | Speciation / hybridization 7 | Speciation / hybridization & diversification | Sexual selection & mating systems 10 |
| Comparing evolutionary rates for different phenotypic traits on a phylogeny using likelihood Adams, Dean | Parent-of-origin growth effects and the evolution of hybrid inviability in hamsters Brekke, Tom; Good, Jeff | Rapid sympatric speciation in chemosymbiotic thyasirids (Bivalvia: Thyasiridae) from Bonne Bay, Newfoundland Batstone, Rebecca; Laurich, Jason; Dufour, Suzanne | Ecological effects on male fertility restoration in cytonuclear gynodioecy Bailey, Maia; Caruso, Chris; Case, Andrea |
| Examining rates of character change and diversification in blackbirds: why does red coloration evolve repeatedly? Friedman, Nicholas; Manor, Sarah; Omland, Kevin | Meiotic sex chromosome inactivation and hybrid male sterility in house mice Campbell, Polly; Nachman, Michael | Correlated divergence of AFLP outliers and male mating displays among conspecific populations of jumping spiders Blackburn, Gwylim; Maddison, W. P. | Consequences of self pollination and the persistence of mutations in long lived species Bobiwash, Kyle; Schoen, Daniel |
| Niche breadth evolution: linking life-history traits and molecular evolution in Eriogonoideae. Kostikova, Anna; Litsios, Glenn; Salamin, Nicolas; Pearman, Peter | Causes and consequences of song variation across a temporally complex passerine hybrid zone Curry, Claire; Patten, Michael | Gut microbiome variation within ecologically variable populations of post-glacial lake fish Bolnick, Daniel; Svanback, Richard; Snowberg, Lisa; Knight, Rob; Lauber, Chris; Caporaso, Greg | Sink-driven resource allocation and reproductive performance Ida, Takashi; Harder, Lawrence; Kudo, Gaku |
| Bayesian integrative models for molecular and macro-evolutionary studies Lartillot, Nicolas | Hybrid swarm between divergent lineages of mule deer (<i>Odocoileus hemionus</i>) Latch, Emily; Kierepka, Elizabeth; Heffelfinger, James; Rhodes, Olin | Phylogenetic history and network structure of a coevolving pollination mutualism on oceanic islands Hembry, David; Kawakita, Atsushi; Atkinson, Lesje; Guo, Chang; Baldwin, Bruce; Gillespie, Rosemary | Multiple mating and male-female conflict in a hermaphroditic plant Karron, Jeff; Mitchell, Randy; Trapnell, Dorset |
| Time and patters of lineage and phenotype evolution in Neotropical cichlid fishes Lopez-Fernandez, Hernan; Arbour, Jessica; Winemiller, Kirk; Honeycutt, Rodney | Population genetics and patterns of hybridization in Sapsuckers (<i>Sphyrapicus</i> spp) Martin, Alice B; Pelton, Haley; Burg, Theresa M | Are genes under selection good for species discrimination of South American Fruit flies? Ribeiro, Daniel T.; Lima, Andre L A; Nakamura, Aline M; Fernandes, Fernanda; Sobrinho, Jr., Iderval S.; de Brito, Reinaldo A | Selection by hawkmoth and hummingbird pollinators on <i>Polemonium brandegeei</i> (Polemoniaceae): compromise phenotypes or floral mosaics? Kulbaba, Mason; Worley, Anne |
| Convergence in jumping and swimming performance in assemblages of frogs from three continents Moen, Daniel S.; Irschick, Duncan J.; Wiens, John J. | A comparative perspective on hybridization in a tropical suture zone Singhal, Sonal | Evolution of host specificity in microgastrine braconid parasitoid wasps Whitfield, James; Rodriguez, Josephine; O'Connor, Jaqui; Smith, Alex; Janzen, Daniel; Hallwachs, Winnie | Seasonal variation in functional gender in wild radish Marshall, Diane; Avritt, Joy; Bettenelli, Julieta; Shaner, Marieken |
| <p>Lunch (provided) 12:00 – 1:15 pm</p> <p>'Bring your lunch' events: ASN business meeting (Rm. 106)</p> <p>NSERC information sessions:</p> <p>Discovery Grants Program (Rm. 102) Student Scholarships & PDF Fellowships (Rm. 104)</p> | | | |

| Canada Hall 2-3 | | Rm. 214 | Rm. 201 | Rm. 202 |
|--|--|--|--|---|
| ASN V.P. Symposium – Natural selection in the wild: from genotype to phenotype | | Symposium for Women Entering Ecology & Evolution Today | Adaptation & evolutionary ecology 4 | Behaviour & social evolution 8 |
| 1:15 pm | Synergism of natural selection and introgression Grant, Peter and Grant, Rosemary | Introduction 1:25 pm | Dynamics of hypoxia and branchial basket development: Keeping pace with a limiting resource Chapman, Lauren ; van der Sluijs, Inke; Graham, Anna | Sex and genetic diversity influence response to indirect genetic effects of social partners on cooperative antipredator behavior in guppies, <i>Poecilia reticulata</i> Bleakley, Bronwyn ; Rubanow, Morgan; Joseph, Johnny; Campbell, Laurel |
| 1:30 pm | | Topic 1: Tactical advice for moving your academic skills into a non-academic position (e.g., marketing yourself, concrete steps to take) | Phenotypic selection and maladaptation in restored and natural tallgrass prairie populations of <i>Monarda fistulosa</i> Hamelin, Ryan ; Husband, Brian | From non-social to eusocial: a comparative analysis of reproductive regulation in the fly vs. bee Camiletti, Alison ; Percival-Smith, Anthony; Thompson, Graham |
| 1:45 pm | | | Adaptive transgenerational plasticity in an annual plant: grandparental and parental drought stress enhance seedling performance in dry soil Herman, Jacob ; Horgan-Kobelski, Tim; Riggs, Charlotte; Sultan, Sonia | Evolution of colony social structure in an invasive social wasp Hanna, Cause; Cook, Erin; Thompson, Ariel; Palaski, Amanda; Dare, Lyndzey; Goodisman, Michael |
| 2:00 pm | | | Measuring fitness : analyzing life histories vs. gene frequency changes Lenormand, Thomas | Ecological resource dynamics of a seasonal color polyphenism Morehouse, Nathan ; Casas, Jerome |
| 2:15 pm | | Selection for speciation: a genetic dissection of reinforcement in <i>Phlox</i> Hopkins, Robin | Keatley, Bronwyn Senior Policy Advisor, Fisheries and Oceans Canada 1:55 pm | Seed allelopathy in Garlic Mustard: a comparison between invasive and native ecotypes Murphy, Guillermo P. ; Bhatt, Mudra V.; Dudley, Susan A. |
| 2:30 pm | Discussion: Marketing your skill set to jobs outside of academia | | Why there is no Universal Temperature Dependency: a tale of life history, temperature variation and the non-random distribution of researchers Nilsson-Örtman, Viktor ; Johansson, Frank; Stoks, Robby; De Block, Marjan | The genetics of aggression and social dominance: does competition constrain the evolution of resource-dependent traits? Wilson, Alastair J |
| Afternoon coffee break 2:45 – 3:15 pm | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|---|--|---|--|
| Bioinformatics & computational biology 2 | Phylogenetics 4 | Ecological genetics 9 | Evolutionary theory 1 |
| Fast maximum likelihood phylogeny estimation under codon substitution models Anisimova, M.; Zanetti, M.; Gil, M. | Genome-scale coestimation of species trees and gene trees Boussau, Bastien; Szöllősi, Gergely J.; Duret, Laurent; Gouy, Manolo; Tannier, Eric; Daubin, Vincent | Genetic basis of divergent ecological adaptation during speciation-with-gene-flow Arnegard, Matthew; McGee, Matthew; Matthews, Blake; Conte, Gina; Peichel, Katie; Schluter, Dolph | Defensive complexity in antagonistic coevolution Bergstrom, Carl T.; Chastain, Erick; Antia, Rustom |
| Characterizing the microbial acid mine drainage community using culturing and deep sequencing techniques Auld, Ryan; Myre, Maxine; Mykytczuk, Nadia; Leduc, Leo; Merritt, Thomas | Open Tree of Life: A community-assembled tree of life Cranston, Karen | You can't get there from here: intragenic epistasis and its effects on climatic adaptation Behrman, Emily; Bergland, Alan; Petrov, Dmitri; Schmit, Paul | An essay on comparative anatomy Bullock, Andrea |
| Testing systems level predictions of metabolic network evolution Harcombe, William; Delaney, Nigel; Leiby, Nick; Klitgord, Niels; Marx, Christopher | Resolving phylogeny and historical introgression in a recent radiation of flowering plants: insights from RAD sequences Eaton, Deren A. R.; Ree, Richard | Thermotolerance adaptations to hot or cold habitats occurs in the native range of the invasive ant <i>Wasmannia auropunctata</i> before long-distance dispersal Foucaud, Julien; Rey, Olivier; Facon, Benoît; Orivel, Jérôme; Vonshak, Merav; Estoup, Arnaud; Loiseau, Anne; et al. | Evolution of transmission mode in obligate symbionts Drown, Devin M.; Zee, Peter C.; Brandvain, Yaniv; Wade, Michael J. |
| The evolutionary modules round rays, foxes and the timber barrel of α -amylase: modularity as evolutionary integration Hleap, Jose Sergio; Blouin, Christian | Gauging the utility of compound microsatellites for shallow scale phylogeny estimation Hogan, Jay; Lemmon, Alan | Horizontal gene transfer affects evolutionarily and ecologically important traits in two invertebrates, the two-spotted spider mite and the pea aphid Kovacs, Jennifer; Gerardo, Nicole | Evaluating the Importance of sexual reproduction vs. ploidy in the face of a coevolving parasite Jenkins, Christina; Dybdahl, Mark; Nuismer, Scott |
| The effect of bacterial recombination on adaptation on holey single-peaked fitness landscapes Moradigaravand, Danesh; Engelstädter, Jan | Reverse engineered morphological phylogenies of marsupials and extinct birds: correcting for functional correlations Phillips, Matt | QTL analysis of personality in wild bighorn sheep Poissant, Jocelyn; Réale, Denis; Coltman, David | The evolution of habitat preference in ecological speciation Thibert-Plante, Xavier; Berner, Daniel |
| Global Names Initiative: automatic discovery, reconciliation, and interconnection of scientific names from literature, research data, specimen collections, hierarchies and checklists Mozzherin, Dmitry; Shorthouse, David; Patterson, David | Accounting for alignment uncertainty in phylogenomics Wu, Martin; Chatterji, Sourav; Eisen, Jonathan | Community genetics in the sea: closing the eco-evolutionary loop Riedel, Arthur; Marshall, Dustin; Monro, Keyne; Blows, Mark | |
| Afternoon coffee break 2:45 – 3:15 pm | | | |

Monday, July 9 | 1:15 – 2:45 pm

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|--|---|--|---|---|
| | Genomics 6 | Contemporary evolution 4 | Systematics 3 | Phylogeography 7 |
| 1:15 pm | Evolutionary genomics of <i>Pseudomonas aeruginosa</i> Dettman, Jeremy ; Rodrigue, Nicolas; Kassen, Rees | Rapid Adaptive Evolution in Invasive Purple Loosestrife (<i>Lythrum salicaria</i>) Colautti, Robert I. ; Barrett, Spencer C. H. | Systematics of three closely-related and endangered Legume genera <i>Delonix</i> , <i>Colvillea</i> and <i>Lemuropisum</i> : Implications for Afro-malagasy dispersion during the Tertiary Babineau, Marielle ; Bruneau, Anne | Evolutionary history of African tropical tree species: insights of environmental gradients, physical barriers to gene flow and past climate change Duminil, Jerome |
| 1:30 pm | The novel gene order of the mitochondrial genome of <i>Amphiascoides atopus</i> (Copepoda: Harpacticoida) Easton, Erin E. ; Darrow, Emily; Thistle, David; Spears, Trisha | Rapid evolution of parasite resistance under enemy release in a Guppy- <i>Gyrodactylus</i> host-parasite system Dargent, Felipe ; Scott, Marilyn; Hendry, Andrew; Fussmann, Gregor | More insight into the utility of low copy genes in Campanulaceae Cellinese, Nico ; Crawl, Andy; Mavrodiev, Evgeny | Diversification and dispersal in a lizard malaria parasite Falk, Bryan |
| 1:45 pm | Exploring the genome size diversity of Annelids Forde, Alison ; Gregory, T. Ryan | Consistent directional selection on breeding date in song sparrows Essak, Martha ; Reid, Jane; Arcese, Peter | Gene concordance as a null hypothesis for multilocus phylogenetics: an example using New Caledonian geckos Jackman, Todd ; Skipwith, Phillip; Bauer, Aaron | Using gut microbial fingerprints to explore ecology and evolution in Neotropical birds Hird, Sarah M. ; Carstens, Bryan C.; Brumfield, Robb T. |
| 2:00 pm | Properties and power of the <i>Drosophila</i> Synthetic Population Resource for the routine dissection of complex traits King, Elizabeth G. ; Macdonald, Stuart J.; Long, Anthony | A model system for the evolution of invasiveness Fonseca, Dina ; Xu, Jiawu | Taxonomy, phylogeny and eco-biogeography of southern African white-eyes (<i>Zosterops</i> spp.) Oatley, Graeme | Tracking origins of the highly invasive horse chestnut leafminer using herbaria and minibarcodes Lopez-Vaamonde, Carlos ; Lees, David; Lack, Walter; Rougerie, Rodolphe; Hernandez-Lopez, Antonio; Augustin, Sylvie |
| 2:15 pm | Evolutionary metagenomics reveals genes that shape complex microbial communities Østman, Bjørn ; Teal, Tracy K.; Gomez-Alvarez, Vicente; Huizinga, Kristin M.; Williams, Barry L.; Schmidt, Thomas M. | Maternal genetic effects set the potential for evolution in red squirrels McFarlane, S.Eryn ; Gorrell, J.C.; Coltman, David W.; Humphries, Murray; Boutin, Stan; McAdam, Andrew G. | Deep branches among Anatidae explored using non-LTR retrotransposon insertions Quinn, Thomas ; KC, Mandip; Mcnally, Amanda; Kanizay, Lisa; St. John, Judy | Conservation genetics of the endangered northern flying squirrel (<i>Glaucomys sabrinus</i>) across the Appalachian Mountains Schumacher, Katelyn I. ; Arbogast, Brian S.; Sparks, James L.; Pagels, John F.; Dyer, Rodney J.; Brown, Bonnie L. |
| 2:30 pm | Population genomics of early events in the ecological differentiation of bacteria Shapiro, B. Jesse ; Friedman, Jonathan; Cordero, Otto X.; Polz, Martin F.; Alm, Eric J. | Evolution of an invasive plant in response to management Quiram, Gina ; Shaw, Ruth; Cavender-Bares, Jeannine | | Multi-locus phylogeography and historical demography of the green anole (<i>Anolis carolinensis</i>) Tollis, Marc ; Boissinot, Stephane |
| Afternoon coffee break 2:45 – 3:15 pm | | | | |

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|--|--|--|
| Sexual selection & mating systems 11 | Speciation / hybridization 8 | Species interactions & coevolution 7 | Macroevolution 2 |
| Why are female common map turtles so much bigger than males? Blouin-Demers, Gabriel ; Bulté, Gregory; Banger, Nicola | Rapid phenotypic evolution during incipient speciation in a continental avian radiation Campagna, Leonardo ; Benites, Pilar; Lougheed, Stephen C.; Lijtmaer, Dario A.; Di Giacomo, Adrian S.; Eaton, Muir D.; Tubaro, Pablo L. | You in danger, girl: Causes and consequences of female-biased predation in crickets Ercit, Kyla | Do freshwater fishes diversify faster than marine fishes? A test using state-dependent diversification analyses and molecular phylogenetics of New World Silversides (Atherinopsidae) Bloom, Devin ; Piller, Kyle; Lovejoy, Nathan |
| Genetic disruption of the copulatory plug leads to severely reduced male fertility Dean, Matthew D. | Gene regulation, sex determination and sex differentiation in an Iberian allopolyploid Coelho, Manuela ; Matos, Isa; Machado, Miguel; Inácio, Ângela; Scharl, M. | Heat-seeking parasites: Thermo-orientation and the microhabitat selection of feather-feeding lice Harbison, Christopher ; Boughton, Rachel | The role of diversity-dependent diversification in adaptive radiations Etienne, Rampal ; Haegeman, Bart |
| Female blue tits adjust their extra-pair copulations behaviour and sex ration to the body size of their social partner Drobniak, Szymon M. ; Arct, Aneta; Podmokla, Edyta; Cichon, Mariusz | Host race formation in the two-spotted spider mite: hybrid incompatibility and genetic population structure Egas, Martijn ; Breeuwer, Hans | Evolution of extreme polyphagy: evidence from the scale insects of a tropical rainforest canopy Normark, Benjamin ; Okusu, Akiko; Morse, Geoffrey | The macroevolutionary implications of morphological integration: the ruminant skull as a case study Haber, Annat |
| Swapping roles: A hormonal and immunological view of sex-role reversal in a polyandrous bird Edwards, Darryl B. ; Burness, Gary; Schulte-Hostedde, Albrecht I.; Gilchrist, H. Grant | Does unequal selection regime lead to asymmetrical reproductive isolation? An experimental test using <i>Tribolium castaneum</i> flour beetles Falk, Jay; Parent, Christine ; Agashe, Deepa; Bolnick, Daniel | A survey of <i>Wolbachia</i> infection in Madagascar ant species and their influence on host population structure Tsoi, Fiona ; Fisher, Brian L.; Smith, M. Alex | Dimensionality and convergent evolution in an adaptive radiation of cichlid fishes Muschick, Moritz ; Nosil, Patrik; Indermaur, Adrian; Roesti, Marius; Dittmann, Marie; Salzburger, Walter |
| Quantitative genetic insights into the evolutionary ecology of polyandry in the wild Reid, Jane | A stochastic model for the development of Bateson-Dobzhansky-Muller Incompatibilities incorporating protein interaction networks Livingstone, Kevin; Olofsson, Peter; Cochran, Garner; Dagilis, Andrius Jonas ; MacPherson, Karen; Seitz, Kerry | Behavioural genetics at a community level: the foraging gene's influence on mutualist quality Turner, Kyle ; Frederickson, Megan | Patterns of climatic niche evolution in the Cape Floristic Region, South Africa Schnitzler, Jan |
| Male reproductive success in the eastern grey kangaroo: weak polygyny despite strong sexual dimorphism? Rioux-Paquette, Elise ; Festa-Bianchet, Marco | Two subspecies of an Andean hummingbird show no differences in mtDNA, despite maintaining secondary sexual differences along a marginal contact zone: Is sexual selection promoting their divergence? Rodríguez-Saltos, Carlos ; Bonaccorso, Elisa | Phage loss and the breakdown of a defensive symbiosis in aphids Weldon, Stephanie ; Oliver, Kerry | Micro- and macroevolution of languages: Linguistic divergence revealed by evolutionary biology approach Vesakoski, Outi ; Honkola, Terhi; Lehtinen, Jyri; Syrjänen, Kaj; Korhonen, Kalle; Wahlberg, Niklas |
| Afternoon coffee break 2:45 – 3:15 pm | | | |

Monday, July 9 | 3:15 – 4:45 pm

| | Canada Hall 2-3 | Rm. 214 | Rm. 201 | Rm. 202 | |
|--|--|---|---|--|--|
| | ASN V.P. Symposium – Natural selection in the wild: from genotype to phenotype | Symposium for Women Entering Ecology & Evolution Today | Adaptation & evolutionary ecology 5 | Behaviour & social evolution 9 | |
| 3:15 pm | Rapid adaptation via multiple mutations in a single locus in mice Linnen, Catherine | Topic 2: Carving your own niche - women in non-traditional careers in science | Parallel and non-parallel patterns of morphological divergence associated with the repeated adaptive radiation of the lake whitefish Evans, Melissa ; Chapman, Laren; Mitrofanov, Igor; Bernatchez, Louis | Modeling the emergence of mafia-like behaviour in a bird host-parasite system Abou Chakra, Maria ; Hilbe, Christian; Traulsen, Arne | |
| 3:30 pm | | | 3:35 pm | Shape plasticity in a sexual dimorphic fish (<i>Salaria fluviatilis</i>) Laporte, Martin ; Berrebi, Patrick; Perret, Philippe; Claude, Julien; Magnan, Pierre | Learning to recognize predators: trial-and-error vs copying the fear of others Barks, Patrick ; Godin, Jean-Guy |
| 3:45 pm | The environmental and genomic landscapes of local adaptation across plant species Lowry, David | | 3:55 pm | The evolution of dwarfism in three-spined sticklebacks MacColl, Andrew ; de Roij, Job; El Nagar, Aliya; Young, Scott | Individual variation and the evolution of fairness Barta, Zoltan ; Houston, Alasdair; McNamara, John |
| 4:00 pm | | | Discussion: Thinking outside the box: pursuing a non-traditional science career | Natural selection on the defensive morphology of the invasive spiny water flea (<i>Bythotrephes longimanus</i>) and potential for evolutionary adaptation Miehls, Andrea ; Peacor, Scott; McAdam, Andrew | Behavioural and neurogenomic divergence between juvenile freshwater and marine threespine stickleback populations Di-Poi, Carole; Lacasse, Jennyfer; Rogers, Sean M.; Aubin-Horth, Nadia |
| 4:15 pm | Phenotypic and genomic change in natural and experimental Timema walking-stick populations Nosil, Patrik | | | Cod exhibit genetic variation in life history responses to temperature at a small spatial scale Oomen, Rebekah ; Hutchings, Jeffrey | Dominance, behavioural traits and immune defence in crayfish males Gruber, Christina ; Hirvonen, Heikki; Kortet, Raine; Vainikka, Anssi |
| 4:30 pm | | | | Closing remarks (Evening SWEET mixer: 6:00 - 7:30 pm, Rm. 214) | There is more to life than flowering on time: adaptive and plastic responses of life history traits to artificial warming Wadgyamar, Susana M ; Cumming, Matthew; Weis, Arthur E |
| ASN Presidential Address – Stevan J. Arnold 4:45 – 5:45 pm, Canada Hall 2-3 ASN Mixer 5:45 -7:30 pm, Trillium Ballroom Poster session #2 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom Baba Brinkman – ‘The Rap Guide to Evolution’ live show 9:30 – 10:30 pm, Rm. 214 | | | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|--|---|--|--|
| Bioinformatics & molecular evolution | Development 1 | Ecological genetics 10 | Evolutionary theory 2 |
| Codon usage bias in single-stranded DNA viruses Cardinale, Daniel ; DeRosa, Kate; Duffy, Siobain | A coat of many colors: Quantification and analysis of bumble bee color patterns Duennes, Michelle ; Rapti, Zoi; Cameron, Sydney | Understanding population structure and its effects on fisheries induced selection in Albertan lake whitefish Chebib, Jobran ; Rogers, Sean M.; Bernatchez, Louis; Renaut, Sébastien | Exploring the ecological factors responsible for the origin and maintenance of genetic correlations Girard, Philippe; Guichard, Frédéric; Réale, Denis |
| Estimating selective sweep parameters in the presence of demography with ABC Ewing, Gregory ; Hermisson, Joachim | Jellyfish eyes and Pax genes: a model for future research in evo-devo Gold, David A. ; Jacobs, David | Implementation of a modified F-model to accommodate molecular marker-specific evolution in population genetic inference Fields, Peter D ; Huband, Jacalyn; Taylor, Douglas R; Gaggiotti, Oscar E | Sex ratio evolution in response to sex-biased dispersal rate and dispersal range Guillon, Jean-Michel |
| A novel site-heterogeneous model for the analysis of constrained protein evolution Lapid, Carlo ; Templeton, Alan | Water striders, a new model system for Eco-Evo-Devo Studies Khila, Abderrahman; Abouheif, Ehab ; Rowe, Locke | Population and functional transcriptomics of host use evolution in the aphid <i>Uroleucon ambrosiae</i> Gill, Aman ; Rest, Joshua; Futuyama, Douglas | The evolution of the genetic and mutational architecture in a multivariate model of epistasis Jones, Adam ; Bürger, Reinhard; Arnold, Stevan |
| Community DNA fingerprinting Low-Decarie, Etienne ; Chivers, Corey | Developmental origins of a novel gut phenotype in frogs Ledon-Rettig, Cristina ; Bloom, Stephanie; Infante, Carlos; Everly, Anne; Hanken, James; Nascone-Yoder, Nanette | Evolution of a partially genetic sex determining system in <i>Daphnia magna</i> Haag, Christoph ; Galimov, Yan | The coincident origins of cells and sex MacKay, Ron |
| A Bayesian phylogenetic model to detect the differential selection patterns of HIV sequence Parto, Sahar ; Lartillot, Nicolas | The evolution and development of sexual dimorphism in skull shape among <i>Anolis</i> lizards Sanger, Thomas ; Sherratt, Emma; Abzhanov, Arhat; Losos, Jonathan | Demographic inference through the allele frequency spectrum for pairs of linked sites Hey, Jody ; Kern, Andrew | A test of the hypothesis that correlational selection orients the G matrix Roff, Derek ; Fairbairn, Daphne |
| Extracellular invaders mediate DNA methyltransferase enzymes (MTases) to gain access to the host genome; A bioinformatics approach to epigenetics Wijenayake, Sanoji ; Gorelick, Root | Targets of selection for sexual size dimorphism in <i>Drosophila</i> Testa, Nicholas ; Ghosh-Modak, Shampa; Shingleton, Alexander | The tangled bark: effects of recombination and segregation on ecological diversity among woodland isolates of <i>Saccharomyces cerevisiae</i> Zeyl, Clifford ; Ronayne, Molly; Skovira, Jennifer | Selection across adaptive and non-adaptive environments in <i>Drosophila melanogaster</i> Wang, Alethea ; Sharp, Nathaniel; Agrawal, Aneil |
| ASN Presidential Address – Stevan J. Arnold 4:45 – 5:45 pm, Canada Hall 2-3 ASN Mixer 5:45 -7:30 pm, Trillium Ballroom Poster session #2 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom Baba Brinkman – ‘The Rap Guide to Evolution’ live show 9:30 – 10:30 pm, Rm. 214 | | | |

Monday, July 9 | 3:15 – 4:45 pm

| | Rm. 207 | Rm. 208 | Rm. 209 | Rm. 210 |
|---------|---|--|--|--|
| | Genomics 7 | Fisher Prize talk | Phylogenetics 5 | Population ecology 1 |
| 3:15 pm | Population re-sequencing reveals variation and selection in natural populations of <i>Arabidopsis halleri</i> Fischer, Martin C. | | Evolutionary trends in the functional morphology of neotropical Geophagine cichlids Arbour, Jessica; Lopez-Fernandez, Hernan | Extra-ordinary sex ratios in <i>Tigriopus californicus</i> ; a quantitative genetic analysis Alexander, Heather; Richardson, Jean; Anholt, Bradley |
| 3:30 pm | Assembly of repetitive DNA from genome survey sequencing: Lessons from grasses and applications to non-model systems Hertweck, Kate; Pires, J. Chris | | Coral reef fishes: the origin of biodiversity hotspots and biogeographic patterns Cowman, Peter; Bellwood, David | Can selfish genes help prevent pest outbreaks? Chubaty, Alex M.; Roitberg, Bernard D. |
| 3:45 pm | The genomic signature of polygenic adaptation Kelly, John; Koseva, Boryana; Mojica, Julius | | Identifying the sister group to the bees: a molecular phylogeny of Aculeata with an emphasis on Apoidea Debevec, Andrew; Cardinal, Sophie; Danforth, Bryan | From conflict to mutualism in polymicrobial cross-feeding Estrela, Sylvie; Trisos, Christopher; Brown, Sam P. |
| 4:00 pm | Frequent divergence in subcellular localization with neofunctionalization after gene duplication during the evolution of the Brassicaceae family Liu, Shao-Lun; Pan, Angel; Adams, Keith | | Evolution of the pygmy angelfishes: recent divergences, introgression, and the usefulness of color in fish taxonomy Gaither, Michelle; Pyle, Richard; Schultz, Jennifer; Bellwood, David; Rocha, Luiz; Joseph DiBattista, Joseph; Bowen, Brian | Genome size diversity in semi-aquatic insects Hadfield, Kelly |
| 4:15 pm | The extent of genomic divergence among sunflower species with respect to their degree of geographic separation Renaut, Sébastien; Rieseberg, Loren | R.A. Fisher Prize talk (SSE): | A new model of amino acid substitution for mtDNA-encoded Arthropod proteins Jermiin, Lars; Irisarri, Iker; Jayaswal, Vivek; Abascal, Federico; Posada, David; Zadoya, Rafael | Increasing mortality at low abundance - The functional response of fisheries Keith, David; Hutchings, Jeffrey |
| 4:30 pm | Mitochondrial genome evolution in a gynodioecious species: are cytoplasmic male sterility genomes fast evolving ones? Touzet, Pascal; Darracq, Aude; Castric, Vincent; Varré, Jean-Stéphane | Visualizing fitness landscapes McCandlish, David | Anchored phylogenomics within genera: a test case using 100s of loci in chorus frogs Lemmon, Emily Moriarty; Lemmon, Alan | Local adaptation alters the impact of spatial population synchrony Vasseur, David; Amarasekare, Priyanga |

ASN Presidential Address – Stevan J. Arnold | 4:45 – 5:45 pm, Canada Hall 2-3

ASN Mixer | 5:45 -7:30 pm, Trillium Ballroom

Poster session #2 | 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom

Baba Brinkman – ‘The Rap Guide to Evolution’ live show | 9:30 – 10:30 pm, Rm. 214

| Rm. 211 | Rm. 212 | Rm. 213 | Rm. 215 |
|--|--|---|--|
| Sexual selection & mating systems 12 | Speciation / hybridization 9 | Species interactions & coevolution 8 | Macroevolution 3 |
| Diversification of static allometries in Australian neriid flies Cassidy, Elizabeth ; Bath, Eleanor; Bonduriansky, Russell | Evolution of male sex pheromone and diversification of the butterfly genus <i>Bicyclus</i> Bacquet, Paul ; Brattström, Oskar; Wang, Hong-Lei; Löfstedt, Christer; Brakefield, Paul; Nieberding, Caroline | Ants as disruptors of pollination in artificial flowers Cembrowski, Adam ; Tan, Marcus; Thomson, James; Frederickson, Megan | What Earth history tells us about the diversification of a continental radiation of passerine birds Claramunt, Santiago ; Derryberry, Elizabeth P.; Remsen, J. V. Jr.; Brumfield, Robb T.; Cracraft, Joel L. |
| Intralocus sexual conflict in populations of scavenger flies with variable sexual size dimorphism Dmitriew, Cait | Complex interspecific hybridization and adaptation in an island population of house mice Chan, Yingguang Frank ; Jones, Eleanor P.; Renaud, Sabrina; Reed, Floyd A.; Tautz, Diethard | Traits dimensions and victim-exploiter coevolution: theoretical insights on how multiple roads make Road Runner run faster Débarre, Florence ; Nuismer, Scott; Doebeli, Michael | Climatic niche evolution and patterns of diversification in birds Cooney, Christopher ; Seddon, Nathalie; Tobias, Joseph |
| Predation-driven divergence of male genital morphology in Bahamas mosquitofish Heinen, Justa ; Langerhans, Brian | Tests of genomic-level parallelism underlying repeated ecological speciation in threespine sticklebacks Conte, Gina ; Arnegard, Matt; McGee, Matthew; Best, Jacob; Schluter, Dolph; Peichel, Catherine | Do phytophagous insects evolve to reduce impact on their host plants? Heard, Stephen B. ; Kitts, Emily | The enigmatic Horned Anole of Ecuador: Ecology, behavior, and morphology, and relationship to the Caribbean Anole radiation Losos, Jonathan |
| Differential investment in pre- and post-copulatory sexual selection accounts for the cross-continental reversal in sexual size dimorphism in a widespread dung fly (Sepsidae:Diptera) Puniamoorthy, Nalini ; Blanckenhorn, Wolf | Recovery from hybrid breakdown in a marine invertebrate is faster, stronger and more repeatable under environmental stress Edmands, Suzanne ; Hwang, AnnMarie | The obligate pollination mutualism in Phyllanthaceae Luo Shixiao ; Zhang, Dianxiang; Renner, Susanne S. | Morphological disparity and lineage diversity patterns through the history of continental and insular corvid birds (core Corvoidea, Passerida) Fabre, Pierre-Henri ; Lessard, Jean-Philippe; Fjeldsa, Jon; Jonsson, Knud |
| The contributions of pre- and postcopulatory episodes to total sexual selection in sex-role-reversed Gulf pipefish Rose, Emily ; Jones, Adam | Introgression of mitochondria and morphology across a continuum of speciation in sunflower maggot flies Forbes, Andrew A. ; Kelly, Patrick H.; Middleton, Kara; Condon, Marty | Is it coevolution? Phenotype matching in <i>Yuccas</i> and <i>Yucca</i> moths Smith, Christopher Irwin ; Yoder, Jeremy; Pellmyr, Olle | When and why do diversification rates decline? A global comparison of passerine bird groups Fritz, Susanne A. ; Jønsson, Knud A.; Rahbek, Carsten; Böhning-Gaese, Katrin; Morlon, Hélène |
| Does female control over sperm swimming speed dictate fertilisation success in chinook salmon? Rosengrave, Patrice ; Wing, Janine; Montgomerie, Robert; Gemmell, Neil | Species radiation by niche shifts in New Zealand's rockcrosses Joly, Simon ; Heenan, Peter; Lockhart, Peter | High-throughput DNA barcoding system for high-resolution analyses of coevolutionary networks Toju, Hirokazu ; Tanabe, Akifumi; Sato, Hiroto; Yamamoto, Satoshi; Kadowaki, Kohmei; Hidaka, Amane | Inferring eco-evolutionary assembly processes from phylogenetic community structure Pontarp, Mikael ; Lundberg, Per; Ripa, Jörgen; Tunlid, Anders |

ASN Presidential Address – Stevan J. Arnold | 4:45 – 5:45 pm, Canada Hall 2-3
ASN Mixer | 5:45 -7:30 pm, Trillium Ballroom
Poster session #2 | 7:30 – 10:00 pm, Parliament Foyer, Canada Hall 1 & Trillium ballroom
Baba Brinkman – ‘The Rap Guide to Evolution’ live show | 9:30 – 10:30 pm, Rm. 214

Tuesday, July 10 | 8:30 – 10:00 am

| | Canada Hall 2-3 | Rm. 201 | Rm. 202 |
|--|--|---|--|
| | Joint Awards Symposium | Adaptation 9 | Behaviour & social evolution 10 |
| 8:30 am | CSEE Early Career Award talk: Toward an integration of biogeography and ecosystem ecology | The genetic basis of adaptation to human hosts in the malaria vector <i>Anopheles gambiae</i> Athrey, Giri ; Hodges, Theresa; Cosme, Luciano; Takken, Willem; Slotman, Michel | Linking group size to group dynamic: an exploratory analysis using GPS data Body, Guillaume ; Weladji, Robert B; Holand, Øystein |
| 8:45 am | Gravel, Dominique | Flowering early or flowering big: which matters more for male and female fitness? Austen, Emily ; Weis, Arthur E. | Evolution of social systems and reproductive strategies in multi-male groups: tolerant females, despotic males? Engelhardt, Antje ; Heistermann, Michael; Agil, Muhammad; Perwitasari-Farajallah, Dyah; Higham, James |
| 9:00 am | CSEE Early Career Award talk: The plant's dilemma: how to defend one's self | Life-history strategies of the hydrophyte <i>Spirodela polyrhiza</i> under variable pond environments Compton, Mary ; Simons, Andrew | Effects of reproduction on foraging and vigilance behaviour of female Eastern Grey Kangaroo: an experimental manipulation Gélin, Uriel ; Festa-Bianchet, Marco |
| 9:15 am | Johnson, Marc | Evolve or die: A characterization of adaptive mutations in yeast Gerstein, Aleeza C. ; Otto, Sarah P. | Does cerebral lateralization play a role in the evolution of personality? Hurd, Peter |
| 9:30 am | Ernst Mayr Award talk (SSB): | Fitness effects of floral plasticity and thermoregulation in a changing thermal environment Lacey, Elizabeth ; Lovin, Mary Beth; Richter, Scott | Interactions between behavioural and morphological traits create a complex fitness landscape for the evolution of alternative reproductive tactics in an Australian lizard Noble, Daniel ; Wechmann, Kerrie; Keogh, Scott; Whiting, Martin |
| 9:45 am | TBA during meeting | Population genomic analysis of local adaptation across the range of wild sunflower McAssey, Edward ; Burke, John | Heterozygosity predicts clutch size, egg size, and the level of parental care in house sparrows Wetzel, Daniel ; Westneat, David |
| Morning coffee break 10:00 – 10:30 am | | | |

| Rm. 203 | Rm. 204 | Rm. 205 | Rm. 206 |
|---|--|--|---|
| Community ecology 3 | Development 2 | Ecological genetics 11 | Evolutionary theory 3 |
| Ecological effects of maladaptation in a Californian stick insect Farkas, Timothy E. ; Comeault, Aaron A.; Mononen, Tommi; Hanski, Ilkka; Nosil, Patrik | Patterns of shoot architecture in locally adapted populations are linked to intraspecific differences in gene regulation in <i>M. guttatus</i> Baker, Robert L. ; Diggle, Pamela K | Searching for adaptation at highly local scales: Evidence for thermal selection in California mussels? Barney, Bryan ; Palumbi, Stephen; de Wit, Pierre | The effects of genetic linkage and gene flow on local adaptation Buerger, Reinhard ; Akerman, Ada |
| Diversity, coexistence, and competitive ability: The effect of intraspecific diversity on invasibility and invadability in bruchid beetles Hausch, Stephen ; Fox, Jeremy; Vamosi, Steve | What the egg sensed: Embryonic exposure to predator cues alters larval response to perceived predation risk in some species of temperate frog (<i>Lithobates</i> spp.) Bennett, Amanda M ; Murray, Dennis L | Sequencing a seabird food chain Bowser, Kirsten ; Diamond, Antony; Addison, Jason | Why negative maternal effects maximise fitness in relatively stable environments Ezard, Thomas ; Hoyle, Rebecca |
| The interacting roles of foraging biology, flowering phenology and trait evolution in determining pollination network structure Olito, Colin | The origin of the developmental gene regulation in the myxobacteria Chen, I-Chen Kimberly ; Yu, Yuen-Tsu Nicco; Griesenauer, Brad; Velicer, Gregory | The population genomics of adaptive color pattern diversification and hybridization in <i>Heliconius erato</i> Counterman, Brian | A heuristic model on the role of plasticity in adaptive evolution Gomez-Mestre, Ivan ; Jovani, Roger |
| Indirect effects of <i>Galerucella</i> spp. herbivory on plant-pollinator interactions and reproduction in <i>Lythrum salicaria</i> Russell-Mercier, Jake ; Sargent, Risa | How the fly embryo got its stripes: unravelling the evolution of the gap gene regulatory network in <i>Drosophila</i> , <i>Megaselia</i> and <i>Clogmia</i> Crombach, Anton ; Wotton, Karl R; Cicin-Sain, Damjan; Jaeger, Johannes | Hierarchical structure and diversity in a dendritic lake trout (<i>Salvelinus namaycush</i>) system in Northern Labrador McCracken, Gregory ; Perry, Rob; Keefe, Don; Ruzzante, Daniel | From genes to communities - the six pillars of evolution Lundberg, Per |
| Plastic Fantastic: acclimation to CO ₂ enrichment in 17 ecotypes of a globally-distributed marine alga Schaum, Elisa ; Collins, Sinéad; Rost, Björn; Millar, Andrew | Phenotypic plasticity: Insight from fish endoskeletal development Grünbaum, Thomas ; Cloutier, Richard | Spatially varying selection in a gene contributing to flower color divergence and incipient speciation in <i>Mimulus</i> Streisfeld, Matt | Conformity and cooperation in metapopulations: initial conditions, statistical associations, and timescales Van Cleve, Jeremy |
| Relationships between body size, reproduction and abundance in natural plant communities Tracey, Amanda | The evolution of gene expression underlying sexual development in fungi Lehr, Nina; Sikhakolli, Usha; Wang, Zheng; Lopez-Giraldez, Francesc; Trail, Frances; Townsend, Jeffrey | Genome-wide footprints of local adaptation to habitat in <i>Medicago truncatula</i> Yoder, Jeremy ; Stanton-Geddes, John; Young, Nevin; Tiffin, Peter | X-linked additive variance reduces the between sex genetic correlation Wolak, Matthew ; Wilson, Alastair; Kruuk, Loeske; Roff, Derek; Fairbairn, Daphne |
| Morning coffee break 10:00 – 10:30 am | | | |

Tuesday, July 10 | 8:30 – 10:00 am

| | Rm. 207 | Rm. 209 | Rm. 210 | Rm. 212 |
|---|---|---|--|--|
| | Genomics 8 | Phylogenetics 6 | Macroevolution 4 | Sexual selection & mating systems 13 |
| 8:30 am | <p>Skinomics: applying novel genomic tools to museum specimens to detect early signatures of responses to climate change</p> <p>Bi, Ke; Linderoth, Tyler; Vanderpool, Dan; Nielsen, Rasmus; Good, Jeffrey; Moritz, Craig</p> | <p>Evolution of breeding systems and diversification rates in heterostylous and homostylous Primroses (Primulaceae)</p> <p>de Vos, Jurriaan; Conti, Elena</p> | <p>A phylo-evo-devo perspective on the evolutionary history of lungfishes</p> <p>Cloutier, Richard; Béchard, Isabelle</p> | <p>Rapid evolution of color and sexual dimorphism in a radiation of Hawaiian damselflies</p> <p>Cooper, Idelle; Brown, Jonathan; Getty, Thomas</p> |
| 8:45 am | <p>Emergence of new cis-regulatory modules in fish and their role in the evolution of innovation after genome duplication</p> <p>Braasch, Ingo; Sydes, Jason; Amores, Angel; Postlethwait, John H.</p> | <p>Phylogeny of <i>Agalinis</i> (Orobanchaceae) and exploring a recent South American radiation</p> <p>Latvis, Maribeth; Castro Souza, Vinicius; Soltis, Pamela; Soltis, Douglas</p> | <p>Size does matter: a study of brain evolution using phylogenetic comparative methods</p> <p>Gonzalez-Voyer, Alejandro; Kolm, Niclas</p> | <p>Evolutionary optimum for male sexual traits characterised using the multivariate Robertson-Price Identity</p> <p>Delcourt, Matthieu; Blows, Mark; Aguirre, David; Rundle, Howard</p> |
| 9:00 am | <p>Genomic imprinting and epigenetic control of uniparental gene expression in the little fire ant (<i>Wasmannia auropunctata</i>)</p> <p>Brooks, Denise; Watanabe, Yutaka; Tin, Mandy; Mikheyev, Alexander</p> | <p>Fire fuels diversification in the Restionaceae</p> <p>Litsios, Glenn; Salamin, Nicolas</p> | <p>A phylogenetic test for exceptional convergence among replicated adaptive radiations of island <i>Anolis</i> lizards</p> <p>Mahler, D. Luke; Ingram, Travis; Revell, Liam J.; Losos, Jonathan B.</p> | <p>What do we really know about the genetic basis of sexually antagonistic variation?</p> <p>Fry, James</p> |
| 9:15 am | <p>Is DNA barcoding merely a transition phase in the technological development of biodiversity science?</p> <p>Hajibabaei, Mehrdad</p> | <p>Testing the impact of calibration on molecular divergence times using a fossil-rich group: the case of <i>Nothofagus</i> (Fagales)</p> <p>Sauquet, Herve</p> | <p>Key innovations and the evolution of iridescent ornamental colors</p> <p>Maia, Rafael; Rubenstein, Dustin; Shawkey, Matthew</p> | <p>Sex biased genes and sex specific genetic variance in <i>Drosophila melanogaster</i></p> <p>Griffin, Robert; Dean, Rebecca; Grace, Jaime; Friberg, Urban</p> |
| 9:30 am | <p>Differential gene expression in <i>Anopheles gambiae</i> vs. <i>Anopheles quadriannulatus</i> olfactory organs</p> <p>Hodges, Theresa; Athrey, Giri; Cosme, Luciano; Takken, Willem; Slotman, Michel</p> | <p>Contrasting clade diversification in the species-rich genus <i>Carex</i> (Cyperaceae)</p> <p>Waterway, Marcia</p> | <p>Evolution of floral scent in <i>Narcissus</i> and their correlation with pollinators</p> <p>Santos-Gally, Rocio; Schiestl, Florian; Arroyo, Juan</p> | <p>Does size matter: Evaluating the morphological factors that affect mating success in <i>Drosophila</i></p> <p>LeVasseur-Viens, Helene; Moehring, Amanda</p> |
| 9:45 am | <p>Genome divergence during evolutionary diversification in replicate lake-stream stickleback population pairs</p> <p>Roesti, Marius; Hendry, Andrew; Salzburger, Walter; Berner, Daniel</p> | <p>Dating species divergence with the least-square method</p> <p>Xia, Xuhua; Yang, Qun</p> | <p>Equilibrium diversification dynamics in Malagasy vertebrate clades</p> <p>Scantlebury, Daniel</p> | <p>Sexual selection and character displacement in <i>Drosophila subquinaria</i> and <i>D. recens</i>: the role of cuticular hydrocarbons and their identification</p> <p>Sztepanacz, Jacqueline; Curtis, Sharon; White, Brooke E; Dyer, Kelly; Rundle, Howard D</p> |
| Morning coffee break 10:00 – 10:30 am | | | | |

| Rm. 213 | Rm. 214 | Rm. 215 | Rm. 208 | |
|--|--|--|--|--|
| Speciation / hybridization 10 | Species interactions & coevolution 9 | Population ecology 2 | iEvoBio | |
| Evidence of speciation in an experimental population of <i>E. coli</i> following the evolution of a key adaptation Blount, Zachary ; Lenski, Richard E. | Experimental measurement of the geographic mosaic coevolution in the interaction of <i>Solidago altissima</i> , <i>Eurosta solidaginis</i> and <i>Eurytoma gigantea</i> Craig, Timothy ; Itami, Joanne | Antagonistic effects of sun activity on survival at different ages in a human preindustrial population Bergeron, Patrick ; Millot, Emmanuel; Réale, Denis; Mayer, Francine; Boisvert, Mireille; Pelletier, Fanie | iEvoBio satellite conference See pp. 106-107 for a detailed schedule. | |
| Common genetic basis for interspecific and intraspecific variation in moth pheromone composition Groot, Astrid ; Staudacher, Heike; Barthel, Andrea; Schal, Coby; Heckel, David; Gould, Fred | Sex, diploidy and the dynamics of host-parasite coevolution Engelstaedter, Jan | Form, function, and consequences of density-dependence in a migratory bird McKellar, Ann ; Marra, Peter; Boag, Peter; Ratcliffe, Laurene | | |
| Evolutionary rates of change in sexual signals and ecological traits in sexually dichromatic fishes (Percidae: <i>Etheostoma</i>) Martin, Michael ; Mendelson, Tamra | A novel comparative method for analyzing the evolution of interaction networks Harmon, Luke | Maintaining intraspecific variation through adaptive dispersal Pleet, Jordan | | |
| Single novel compounds underpin strong reproductive isolation in Australian sexually deceptive orchids: insights into the initiation of pollinator mediated speciation Peakall, Rod ; Whitehead, Michael; Phillips, Ryan | What is <i>Oophila</i> and are green algae associated with salamander eggs monophyletic? Lewis, Louise A. ; Landberg, Tobias | Quantifying changes in the size and age structure of 100 marine fishes Reuchlin-Hughenoltz, Emilie ; Hutchings, Jeffrey A.; Keith, Dave M. | | |
| The genetics of speciation and associated phenotypic effect sizes of sexual isolation Shaw, Kerry ; Ellison, Chris | Empirical evidence for host-parasite specificity consistent with a matching allele model Luijckx, Pepijn ; Fienberg, Harris; Duneau, David; Ebert, Dieter | Old fish, new fish: The effects of stock structure on recruitment levels in fishes Roney, Nancy ; Keith, Dave; Hutchings, Jeffrey | | |
| Single-gene speciation with functional pleiotropy: effects of allele dominance, population size, and maternal effect Yamamichi, Masato ; Sasaki, Akira | Digital host-parasite coevolution drives a trend of increasing complexity Zaman, Luis ; Devangam, Suhas; Meyer, Justin; Lenski, Richard E.; Ofria, Charles | Strong population differentiation of softshell clams (<i>Mya arenaria</i>) sampled across seven biogeographic marine ecoregions: evidence for selection and isolation by distance St-Onge, Philippe ; Sévigny, Jean-Marie; Strasser, Carly; Tremblay, Réjean | | |
| Morning coffee break 10:00 – 10:30 am | | | | |

Tuesday, July 10 | 10:30 am – 12:00 noon

| | Canada Hall 2-3 | Rm. 201 | Rm. 202 | Rm. 203 |
|---|---|---|---|---|
| | Joint Awards Symposium | Adaptation 10 | Behaviour & social evolution 11 | Community ecology 4 |
| 10:30 am | Jasper Loftus-Hills Young Investigator Award talk (ASN): | Genetic constraints on adaptation to a changing environment Chevin, Luis-Miguel | Evolutionary ecology of chemical defence: a phylogenetic perspective Arbuckle, Kevin; Speed, Mike | The value of trait vs. phylogenetic data for inferring community assembly processes in a system of herbivorous marine invertebrates Best, Rebecca J; Stachowicz, John J |
| 10:45 am | The genetics of adaptation to changing environments Barrett, Rowan | Evolution of antipredator traits in response to a novel predator DeNieu, Michael; Dworkin, Ian | Dispersal heterogeneity is generated by alleles underlying a foraging behaviour polymorphism Edelsparre, Allan; Fitzpatrick, Mark | A multi-scale study of the productivity-richness relationship in herbaceous plants Fraser, Lauchlan |
| 11:00 am | Jasper Loftus-Hills Young Investigator Award talk (ASN): | Form of pleiotropy of a globally beneficial mutation varies among <i>Escherichia coli</i> isolates Dillon, Marcus; Flynn, Kenneth; Cooper, Vaughn | Here's looking at you: Wild New Zealand Robins respond to gaze in Humans Garland, Alexis; Low, Jason; Burns, K.C. | The threshold for dispersal-induced spatial synchrony in a model system Legault, Geoffrey; Fox, Jeremy; Vasseur, David |
| 11:15 am | Ecology, economics and conflict in the evolution of insect sexual trait Perry, Jen | Tracking dynamics of adaptation reveals the distribution of fitness effects and evolution of ecology in asexual budding yeast Frenkel, Evgeni; Desai, Michael | Effects of seed quality and abundance on the foraging behaviour of northern rodents Lobo, Nikhil; Green, Derek; Millar, John | Community disassembly and trophic contraction of forest floor microarthropod community under environmental change Lindo, Zoe; Gonzalez, Andrew |
| 11:30 am | Jasper Loftus-Hills Young Investigator Award talk (ASN): | A high cost to adaptation caused by overdominance in diploid yeast Hall, David | Adaptive sex ratio manipulation in the common moorhen McRae, Susan B.; Mauney, Deborah F. | Turning up the heat on predation: Fluctuating temperatures destabilize predator-prey dynamics Simon, Franz W; Chubaty, Alex M; Roitberg, Bernard D |
| 11:45 am | Alternative paradigms in the phylogenetic analysis of phenotypic trait data Revell, Liam J. | Niche breadth evolution in an opportunistic pathogen Vasanthkrishnan, R.K.B.S.; de Las Heras, A.; Scortti, M.; Vazquez-Boland, J.A.; Colegrave, N. | Density-dependent changes in social grouping: a comparison of two ungulates Vander Wal, Eric; Brook, Ryan K.; Festa-Bianchet, Marco; van Beest, Floris M.; Pelletier, Fanie | Priority effects cause community invasibility to decrease post-disturbance: experimental evidence from aquatic mesocosms Symons, Celia; Arnott, Shelley |
| Lunch (not provided) 12:00 – 2:00 pm | | | | |

| Rm. 204 | Rm. 205 | Rm. 206 | Rm. 207 |
|--|---|---|---|
| Plant evolution & ecological genetics | Ecological genetics 12 | Plant population ecology | Genomics 9 |
| The association between clonality and polyploidy in the herbaceous plant, <i>Chamerion angustifolium</i> (Onagraceae) Baldwin, Sarah J; Husband, Brian C | Multiscale gene flow as a factor in local adaptation Buschbom, Jutta; Yanbaev, Yulai; Gimmerthal, Sönke; Köchy, Martin; Sebbenn, Alexandre M.; Schlünzen, K. Heinke; Schueler, Silvio | Demographic transition signature of tropical rain forest trees Barthe, Stephanie; Scotti, Ivan; Hérault, Bruno | Variations in the rate of DNA loss among vertebrates account for differences in genome size Boissinot, Stephane |
| Mating system shifts and the evolution of disease resistance genes in <i>Arabidopsis lyrata</i> Buckley, James; Mable, Barbara | Spatial and temporal structure of mating pools in an annual plant: consequences for evolution of phenological traits Ison, Jennifer; Weis, Art | The more males the better: sex phases, density and seed production in <i>Lobelia cardinalis</i> Bartkowska, Magdalena; Busche, Kirsten; Johnston, Mark O. | Operator and genome statistics: exploring the evolution of regulator specificity del Grande, Marc; Moreno-Hagelsieb, Gabriel |
| Interactions between plant kin selection and mycorrhizal symbiosis: testing for fitness benefits in field grown ragweed File, Amanda; Dudley, Susan | Testing for metapopulation structure: confronting our guess with actual data – An example in freshwater snails Lamy, Thomas; Jarne, Philippe; David, Patrice | In fragrante delicto: floral scent and morphology vary with mating system in a Pacific coast dune plant Doubleday, Laura; Raguso, Robert; Eckert, Christopher | The impact of sex chromosome evolution on polyploidization in amphibians Evans, Ben; Bewick, Adam; Pyron, Alex; Wiens, John |
| Population-genetic analyses of extreme mating system differentiation in a coastal dune plant Lopez-Villalobos, Adriana; Eckert, Christopher | The influence of habitat composition and configuration on the genetic structure of the pitcher plant midge Millette, Katie; Keyghobadi, Nusha | Phenological associations of within- and among-plant variation in gender with floral morphology in protandrous <i>Delphinium glaucum</i> Harder, Lawrence; Ishii, Hiroshi | Genome resequencing reveals complex speciation in the <i>Drosophila simulans</i> clade Garrigan, Daniel; Kingan, Sarah; Presgraves, Daven; Andolfatto, Peter; Clark, Andrew; Thornton, Kevin |
| Ontogeny alters ecophysiological leaf trait relationships across the genus <i>Helianthus</i> Mason, Chase; Donovan, Lisa | Population genetic variation of a seabird breeding along the Pacific coast of North America Wallace, Sarah; Wolf, Shaye; Bradley, Russell; Friesen, Vicki | Effect of local sex ratio in pollen limitation and selfing in <i>Silene nutans</i> Lahiani, Emna; Touzet, Pascal; Billiard, Emmanuelle; Dufaÿ, Mathilde | Large-scale targeted exons resequencing reveals divergent genomic regions between incipient species of lake whitefish (<i>Coregonus clupeaformis</i>) Hébert, Francois Olivier; Bernatchez, Louis |
| Disruptive selection on flowering time in <i>Capsella bursa-pastoris</i> (Brassicaceae) Pilson, Diana; Signor, Emily; Anderson, Ryan | Recent long-distance transgene flow into wild populations conforms to historical patterns of gene flow in cotton (<i>Gossypium hirsutum</i>) at its centre of origin Wegier, Ana; Piñero-Nelson, Alma; Alarcón, Jesús; Gálvez-Mariscal, Amanda; Álvarez-Buylla, Elena; Piñero, Daniel | Clarifying Baker's law Cheptou, P.-O. | Patterns of genome size diversity in tropical Malacostraca Jeffery, Nicholas; Gregory, T. Ryan |
| Lunch (not provided) 12:00 – 2:00 pm | | | |

Tuesday, July 10 | 10:30 am – 12:00 noon

| | Rm. 209 | Rm. 210 | Rm. 211 | Rm. 212 |
|---|--|---|---|---|
| | Phylogenetics 7 | Macroevolution 5 | Evolutionary theory 4 | Sexual selection & mating systems 14 |
| 10:30 am | <p>Detecting and resolving inconsistencies in deep roots of the tree of life</p> <p>Amrine, Katherine CH; Swingley, Wesley; Ardell, David H</p> | <p>Geographic range and extinction risk among Devonian terebratulide brachiopods</p> <p>Harnik, Paul; Fitzgerald, Paul; Carlson, Sandra</p> | <p>Conflict and cooperation in microbial swarming</p> <p>De Vargas Roditi, Laura; Xavier, Joao</p> | <p>Sexual selection meets foraging ecology: alternative reproductive tactics in bluegill sunfish</p> <p>Colborne, Scott; Longstaffe, Fred; Neff, Bryan</p> |
| 10:45 am | <p>Fitting diversification models to paleo-trees</p> <p>Bapst, David W.; Pennell, Matthew W.; King, Emily A.</p> | <p>Do chemically defended species live longer? Testing evolutionary hypotheses of aging within a phylogenetically controlled framework</p> <p>Hossie, Thomas; Hassall, Chris; Knee, Wayne; Carroll, Justin; Sherratt, Thomas</p> | <p>The correspondence between weak and strong purifying selection</p> <p>Good, Benjamin; Desai, Michael</p> | <p>A plague on both your houses: how sexual antagonism affects size and number of offspring in the bank vole</p> <p>Mokkonen, Mikael; Koskela, Esa; Mappes, Tapio; Mills, Suzanne C.</p> |
| 11:00 am | <p>Hierarchical Bayesian models for calibrating estimates of species divergence times</p> <p>Heath, Tracy A.</p> | <p>Land plant evolutionary time line: gene effects are secondary to fossil constraints in relaxed clock estimation of ages and substitution rates</p> <p>Magallon, Susana; Hilu, Khidir; Quandt, Dietmar</p> | <p>Population size and the persistence of cooperation in spatial games</p> <p>Goyal, Dipankar; Laird, Robert</p> | <p>Sexual selection in conventional and sex role reversed dance flies (Diptera: Empidinae)</p> <p>Murray, Rosalind; Bussiere, Luc</p> |
| 11:15 am | <p>Massive chromosome variation between and within closely related species: implications for evolution in the <i>Apiomorpha minor</i> species-group (Hemiptera: Sternorrhyncha: Eriococcidae)</p> <p>Mills, Penelope; Cook, Lyn</p> | <p>Do fish eyes evolve more slowly than fins, teeth and jaws? The promises and pitfalls of comparing rates of phenotypic evolution among functional systems</p> <p>Price, Samantha; Schmitz, Lars; Anderson, Philip; Wainwright,</p> | <p>On the evolution of stress induced mutation and some of its implications</p> <p>Hadany Lilach; Ram Yoav; Obolski, Uri</p> | <p>Sperm storage and sexual selection in the Hawksbill turtle</p> <p>Phillips, Karl P; Jolliffe, Kevin G; Jolliffe, San-marie; Henwood, Jock; Jorgensen, Tove H; Richardson, David S</p> |
| 11:30 am | <p>Phylogenetic signal and noise: assessing the utility of genes evolving under diverse models</p> <p>Su, Zhuo; Townsend, Jeffrey</p> | <p>Evolution of ectomycorrhizal associations in the Agaricales</p> <p>Ryberg, Martin; Matheny, P. Brandon</p> | <p>Distortions in genealogies due to purifying selection</p> <p>Nicolaisen, Lauren; Desai, Michael</p> | <p>Characterization of the mating type (MAT) locus in the ophiostomatoid fungi revealed the footprint of unequal recombination</p> <p>Tsui, Clement; Hamelin, Richard</p> |
| 11:45 am | <p>Utility of age-constrained priors for phylogenic hypothesis comparison: a new tool for biogeographic and paleoclimatic inferences</p> <p>Zarza, Eugenia; Klusmann-Kolb, Annette; O'Hara, Bob; Pfenninger, Markus</p> | <p>Species selection and the macroevolution of coral photosymbiosis and coloniality</p> <p>Simpson, Carl</p> | <p>Kin selection analysis of non-additive evolutionary games</p> <p>Ohtsuki, Hisashi</p> | <p>Dimorphism in sex-specific genetic variances</p> <p>Wyman, Minyoung; Rowe, Locke</p> |
| Lunch (not provided) 12:00 – 2:00 pm | | | | |

Tuesday, July 10 | 10:30 am – 12:00 noon

| Rm. 213 | Rm. 214 | Rm. 208 | Rm. 215 |
|--|---|---|----------------|
| Speciation / hybridization 11 | Species interactions & coevolution 10 | iEvoBio | iEvoBio |
| The search for autosomal hybrid sterility QTL in <i>Drosophila simulans</i> and <i>D. mauritiana</i> Dickman, Christopher ; Moehring, Amanda | A study of competition-driven plant evolution: Altered selection on <i>Impatiens capensis</i> in competition with an invasive congener Beans, Carolyn | <p>iEvoBio satellite conference</p> <p>See pp. 106-107 for a detailed schedule.</p> | |
| Relationships between environmental structure and genome structure in population divergence Flaxman, Samuel ; Feder, Jeffrey; Nosil, Patrik | Clonal diversity as a means to evade parasites in a freshwater snail Ben-Ami, Frida | | |
| From 'host forms' to host races: studies on maple- and willow-associated <i>Neochlamisus bebbianae</i> leaf beetles Funk, Daniel | Endosymbiosis in trypanosomatids: the symbiotic bacterium undergoes coordinated division with the host cell structures Catta-Preta, C.M.C. ; Brum-da-Silveira, F.; Silva, C.C.; Schenkman, S.; Elias, M.C.; De Souza, W.; Motta, M.C.M.; et al. | | |
| How does climate influence speciation? Hua, Xia ; Wiens, John | Bacteria-phage coevolutionary dynamics in the horse chestnut tree Koskella, Britt | | |
| The biology of speciation in the North American polyploid complex, <i>Larrea tridentata</i> (Zygophyllaceae) Laport, Robert ; Minckley, Robert; Ramsey, Justin | Key innovation in a virus triggers a coevolutionary arms race, rapid molecular evolution, and speciation Meyer, Justin ; Dobias, Devin; Quick, Ryan; Flores, Cesar; Weitz, Joshua; Lenski, Richard | | |
| The genic basis of pollinator-mediated reproductive isolation Schlüter, Philipp M. ; Sedeek, Khalid E. M.; Xu, Shuqing; Qi, Weihong; Schiestl, Florian P. | Soil diversity feedbacks to affect plant evolution Wagg, Cameron | | |
| Lunch (not provided) 12:00 – 2:00 pm | | Lunch (not provided) 12:00 – 1:30 pm | |

Tuesday morning 2

Tuesday, July 10 | 2:00 – 3:15 pm

| | Canada Hall 2-3 | Rm. 201 | Rm. 202 | Rm. 203 |
|---|--|---|---|--|
| | Joint Awards Symposium | Mammal behaviour & evolution | Behaviour & social evolution 12 | Community ecology 5 |
| 2:00 pm | Jasper Loftus-Hills Young Investigator Award talk (ASN): | Do intense periods of reproduction cause oxidative damage? Assessing the physiological costs of postpartum pregnancies Aloise King, Edith ; Garratt, Michael; Brooks, Robert | The evolution of cooperation and skew under imperfect information Akçay, Erol ; Meirowitz, Adam; Ramsay, Kristopher; Levin, Simon | Applications of spatio-temporal graphs in ecology Dale, Mark ; Fortin, Marie-Josée |
| 2:15 pm | The interplay between ecology and evolution in predator-prey interactions Walsh, Matthew | Explaining the varying rates of phenotypic evolution across mammals Gudde, Renske ; Moss, Stephen; Lunt, David; Venditti, Chris | Reproductive skew can provide a net advantage in both conditional and unconditional social interactions Bao, Ming ; Wild, Geoff | Patterns of plant phylogenetic diversity across Florida Germain-Aubrey, Charlotte C ; Burleigh, J. Gordon; Allen, Julia M.; Neubig, Kurt M.; Soltis, Douglas E.; Soltis, Pamela S. |
| 2:30 pm | Theodosius Dobzhansky Prize talk: | Population genetic structure and relatedness within hibernacula in <i>Myotis lucifugus</i> (little brown bats) Martinez N., Felix ; Good, Sara; Willis, Craig K. R. | Trade-offs between behavioural traits in macaques: a within-species perspective Duboscq, Julie ; Engelhardt, Antje; Thierry, Bernard | Influence of nitrogen and silica fertilization on grass palatability and digestion in the meadow vole, <i>Microtus pennsylvanicus</i> Moise, Eric ; Henry, Hugh |
| 2:45 pm | The relationship between speciation and morphological evolution across the Tree of Life Rabosky, Dan | Personality and status in a male primate (<i>Macaca nigra</i>): combining observational and experimental approaches Neumann, Christof ; Agil, Muhammad; Widdig, Anja; Engelhardt, Antje | Evolution of advanced eusociality via maternal manipulation González-Forero, Mauricio | What does phylogeny mean in community phylogenetics? Peres-Neto, Pedro |
| 3:00 pm | John Maynard Smith Prize talk (ESEB): | Evolution and development of female-biased sexual size dimorphism in the spotted hyena Swanson, Eli ; Dworkin, Ian; McElhinny, Terry; Holekamp, Kay | Emergence of responsible sanctions without second order free riders, antisocial punishment or spite Hilbe, Christian ; Traulsen, Arne | Competition for essential resources in evolving metacommunities Smith, Geneviève Kathleen |
| 3:15 pm | Looking at the present to learn about the past Stadler, Tanja | | Individual variation and the evolution of social traits Rodrigues, Antonio M. M. ; Gardner, Andy | Concurrent effects of landscape and managed crop pollinators on wild bee abundance and diversity Zink, Lindsay ; Cartar, Ralph; Wonneck, Mark |
| Afternoon coffee break 3:30 – 4:00 pm | | | | |
| ESEB Presidents' Award: Adam Eyre-Walker 4:00 – 5:00 pm, Canada Hall 2-3 | | | | |
| SSE Presidential Address: Scott Edwards 5:00 – 6:00 pm, Canada Hall 2-3 | | | | |
| Congress Farewell Party – Canadian Museum of Civilization busses start @ 6:00 pm | | | | |

| Rm. 204 | Rm. 205 | Rm. 206 | Rm. 207 |
|--|---|---|--|
| Ecological genetics 14 | Ecological genetics 13 | Population ecology 3 | Genomics 10 |
| The evolution of energy metabolism among migratory and non-migratory populations of threespine stickleback Dalziel, Anne C. ; Vines, Tim; Schulte, Patricia M. | Evolution and molecular physiology of diapause in the Asian tiger mosquito, <i>Aedes albopictus</i> Armbruster, Peter ; Poelchau, Monica; Elsik, Chris; Reynolds, Julie; Delinger, David | Designing cost surfaces for studies of landscape resistance to animal movement and gene flow Bowman Jeff ; Koen, Erin; Walpole, Aaron | Life history transcriptomics in desert <i>Drosophila</i> Etges, William J. |
| Detecting signatures of natural selection in alpine and lowland ecotypes of the allotetraploid plant, <i>Anemone multifida</i> (Ranunculaceae) McEwen, Jamie ; Rogers, Sean M.; Vamosi, Jana | Who is controlling knapweed? A post-release genetic analysis of biological control agents on an invasive weed Cory, Jenny ; Keever, Carson; Bouchier, Robert; Myers, Judith | The relative effect of habitat amount and fragmentation on the size, persistence, and genetic diversity of populations Jackson, Nathan ; Fahrig, Lenore | Phylogenetic incongruence in <i>E. coli</i> O104: Understanding the evolutionary relationships of emerging pathogens in the face of homologous recombination Hao, Weilong ; Allen, Vanessa; Jamieson, Frances; Low, Donald; Alexander, David |
| Multiple colonisations and adaptation to novel environments, within an island setting, is revealed in <i>Pristionchus pacificus</i> , a hermaphroditic nematode species Morgan, Katy | Adaptive genomics of lodgepole and jack pine populations Cullingham, Catherine ; Cooke, Janice; Coltman, David | Inbreeding effects on population dynamics in Alpine ibex Keller, Lukas ; Biebach, Iris; Bozzuto, Claudio | Hybridization and speciation in Xiphophorus fish: a genome wide approach using RAD sequencing Jones, Julia ; Fan, Shaohua; Franchini, Paolo; Schartl, Manfred; Meyer, Axel |
| Population genetics of an amphibian in a changing climate Muir, Anna ; Mable, Barbara | Environmental stress responses of the invasive Soybean Aphid (<i>Aphis glycines</i>) Enders, Laramy ; Heng-Moss, Tiffany; Brisson, Jennifer; Bickle, Ryan; Seigfried, Blair; Miller, Nick | Using stable isotopes to estimate the scale of in-stream insect movements Kobryn, M.J. ; McCauley, E.; Jackson, LJ | Evolutionary history and adaptation inferred from whole-genome sequences of diverse African hunter-gatherers Lachance, Joseph ; Tishkoff, Sarah |
| Disruptive selection and molecular adaptation to environmental mosaics in tropical tree populations Scotti, Ivan | A genome-wide scan for allelic divergence in switchgrass ecotypes Grabowski, Paul ; Morris, Geoffrey; Casler, Michael; Borevitz, Justin | Global warming and the future of habitat selection by arctic lemmings Morris, Douglas ; Dupuch, Angélique; Halliday, William | Fast-Z evolution in butterflies: A genome-wide analysis in <i>Heliconius</i> Walters, James ; Jiggins, Chris |
| Genomic basis of adaptation to copper mine habitat by <i>Mimulus guttatus</i> Wright, Kevin ; Willis, John | A simple explanation for environment-dependent inbreeding depression Jordan, Crispin | Experimental evolution of microbial communities in traditional fermented products Schoustra, Sijmen | Make sense from non-sense DNA: evolutionary origin, mechanism, and history of antifreeze glycoprotein in cod fishes Zhuang, Xuan ; Cheng, C.-H. Christina |

Afternoon coffee break | 3:30 – 4:00 pm

ESEB Presidents' Award: Adam Eyre-Walker | 4:00 – 5:00 pm, Canada Hall 2-3

SSE Presidential Address: Scott Edwards | 5:00 – 6:00 pm, Canada Hall 2-3

Congress Farewell Party – Canadian Museum of Civilization | buses start @ 6:00 pm

Tuesday, July 10 | 2:00 – 3:15 pm

| | Rm. 209 | Rm. 210 | Rm. 211 | Rm. 212 |
|----------------|---|--|---|---|
| | Phylogenetics 8 | Macroevolution & evolutionary theory | Evolutionary theory 5 | Sexual selection & mating systems 15 |
| 2:00 pm | 'Phylogenetic decisiveness' as a criterion for targeted data collection to ameliorate phylogenetic inference from sparse data matrices Brown, Joseph W; Beck, Daniel; Sarver, Brice A.J.; Uribe-Convers, Simon; Tank, David C; Harmon, Luke J | Evolutionary trends from non-directional diffusion: body size in fishes Albert, James; Johnson, Derek | Sex circumscribes individuals Gorelick, Root | Testing models of sex-ratio evolution in a gynodioecious species Case, Andrea; Caruso, Christina |
| 2:15 pm | Branch length estimates from morphological character data Davis, Steve; Eldredge, K. Taro; Holder, Mark | Amphibians break Rensch's rule De Lisle, Stephen; Rowe, Locke | Rare beneficial mutations can halt Muller's Ratchet Jerison, Elizabeth; Goyal, Siddartha; Balick, Daniel; Neher, Richard; Shraiman, Boris; Desai, Michael | A mechanism for exaggerated growth and honest signaling in the weapons and ornaments of sexual selection Emlen, Douglas; Warren, Ian; Johns, Annika; Dworkin, Ian; Corley-Lavine, Laura |
| 2:30 pm | Incomplete gene sample augmentation improves phylogeny estimate for leaf-mining moths and relatives (Lepidoptera: Gracillariidae) Kawahara, Akito Y; Ohshima, Issei; Kawakita, Atsushi; Regier, Jerome; Mitter, Charles; Lopez-Vaamonde, Carlos | Modeling the selective pressures that alter allometry Dreyer, Austin P; Swanson, Eli M.; Shingleton, Alexander W. | New model for evolutionary behavior: Assembling the peices of the puzzle Khateb, Nihaya | The operational sex ratio measures mating competition. Or does it? Kokko, Hanna; Jennions, Michael; Klug, Hope |
| 2:45 pm | Sequence capture of 416 ultraconserved elements provides phylogenomic resolution to the bird tree of life McCormack, John; Harvey, Michael; Faircloth, Brant; Crawford, Nicholas; Glenn, Travis; Brumfield, Robb | How temperature affects intraspecific variation: case of the <i>Drosophila</i> wing amongst species of the melanogaster subgroup Gidaszewski, Nelly A.; Debat, Vincent | Compensatory evolution and the origins of innovations Masel, Joanna; Rajon, Etienne | Sperm form, function, fitness: how multiple ejaculate traits determine competitive fertilization success Lüpold, Stefan; Manier, Mollie; Belote, John; Pitnick, Scott |
| 3:00 pm | Salt tolerance in angiosperms: repeated evolution of a complex trait Moray, Camile; Bennett, Thomas; Flowers, Timothy; Lanfear, Robert; Bromham, Lindell | Bilateral symmetry in animal evolution: chance or necessity? Holló, Gábor; Novák, Mihály | Robustness and the origin of complex epistasis in human disease Wilkins, Jon F.; Lander, Arthur | Sexual selection reinforces natural selection for immune genes in chinook salmon Neff, Bryan; Evans, Melissa; Garner, Shawn; Heath, Daniel |
| 3:15 pm | Multiple hypotheses testing reduces subjectivity in morphological phylogenies: insight from simulated and empirical data Tarasov, Sergei | Ontogenetic dynamics shift in rodent evolution Wilson, Laura; Motokawa, Masaharu | Effects of selective sweeps on unlinked genetic variation mediated by the population pedigree Wilton, Peter; Wakeley, John | Functional relationship between herkogamy and reproductive fitness in <i>Aquilegia canadensis</i> (Ranunculaceae) - a phenotypic selection study Wong, Andy; Eckert, Christopher |

Afternoon coffee break | 3:30 – 4:00 pm

ESEB Presidents' Award: Adam Eyre-Walker | 4:00 – 5:00 pm, Canada Hall 2-3
SSE Presidential Address: Scott Edwards | 5:00 – 6:00 pm, Canada Hall 2-3
Congress Farewell Party – Canadian Museum of Civilization | busses start @ 6:00 pm

| Rm. 213 | Rm. 214 | Rm. 102 | Rm. 208 | Rm. 215 | |
|--|---|--|--|---|--|
| Speciation / hybridization 12 | Species interactions & coevolution 11 | Panel discussion | iEvoBio | iEvoBio | |
| <p>RNA-seq investigation of transposon mis-regulation associated with genomic instability in non-viable whitefish hybrids</p> <p>Dion-Côté, Anne-Marie; Normandeau, Éric; Symonova, Radka; Rab, Petr; Bernatchez, Louis</p> | <p>Does diversity beget diversity? Testing for sequential speciation across a community of insect parasites</p> <p>Hood, Glen R.; Forbes, Andrew A.; Egan, Scott P.; Powell, Thomas H.Q.; Smith, James J.; Feder, Jeffrey L.</p> | <p>The role of science in policy - informing and engaging with decision-makers</p> <p>An interactive panel discussion with:</p> <ul style="list-style-type: none"> o Ted Hsu, PhD Physics, Liberal Member of Parliament (Canada), Science & Tech. Critic o Rees Kassen (uOttawa, Chair of the PAGSE, Executive Committee for the Global Young Academy) o Jeff Kinder, Manager, Science & Technology Strategy, Natural Resources Canada <p>Sponsor: CSEE (organizer: Leanna Lachowsky); Intended audience: graduate students & pdfs</p> | <p>iEvoBio satellite conference</p> <p>See pp. 106-107 for a detailed schedule.</p> | | |
| <p>Morphological diversification in closely related Lake Malawi cichlids</p> <p>Husemann, Martin; Tobler, Michael; McCauley, Cagney; Ding, Baoqing; Danley, Patrick D.</p> | <p>On genetic specificity in symbiont-mediated host-parasite interactions</p> <p>Kwiatkowski, Marek; Engelstädter, Jan; Vorburger, Christoph</p> | | | | |
| <p>The role of phenotypic plasticity and heritability in the early stages of ecological divergence</p> <p>Lucek Kay; Sivasundar Arjun; Seehausen Ole</p> | <p>The impact of facultative symbionts on life history and immunity in the pea aphid</p> <p>Laughton, Alice</p> | | | | |
| <p>Understanding ecological and phylogeographic relationships within a highly polymorphic cichlid fish</p> <p>Magalhaes, Isabel S.; Barluenga, Marta</p> | <p>Natural dynamics of symbiotic communities in North American pea aphids</p> <p>Russell, Jacob; Smith, Drew; Oliver, Kerry</p> | | | <p>iEvoBio afternoon coffee break 2:45 – 3:15 pm</p> | |
| <p>Competition drives a multi-peak hybrid fitness landscape within a sympatric adaptive radiation of <i>Cyprinodon</i> pupfishes</p> <p>Martin, Christopher; Wainwright, Peter</p> | <p>Rapid evolution of character displacement in <i>Anolis carolinensis</i> following invasion by a congener</p> <p>Stuart, Yoel E.; Campbell, Todd S.; Losos, Jonathan B.</p> | | | | |
| <p>The ecological consequences of repeat and reverse speciation</p> <p>Rudman, Seth; Schluter, Dolph</p> | <p>Avian predators and the fitness benefits of the autotomous blue tail in lizards</p> <p>Watson, Charles M.; Cox, Christian L.</p> | | | <p>iEvoBio sessions continue until 5:30 pm</p> | |
| <p>Afternoon coffee break 3:30 – 4:00 pm</p> | | | | | |
| <p>ESEB Presidents' Award: Adam Eyre-Walker 4:00 – 5:00 pm, Canada Hall 2-3 SSE Presidential Address: Scott Edwards 5:00 – 6:00 pm, Canada Hall 2-3 Congress farewell party – Museum of Civilization busses start @ 6:00 pm</p> | | | | | |

iEvoBio schedule - Tuesday, July 10

Rm. 208

iEvoBio Session 1

| | |
|-----------------------|---|
| 8:45 - 9:00 am | Welcome & Logistics |
| 9:00 - 10:00 am | Keynote: Mike Sanderson (University of Arizona) |
| 10:00 - 10:30 am | coffee break |
| 10:30 am - 12:00 noon | Full talks |
| | Cranston et al. (NESCent) – Making the Tree of Life Phylotastic! |
| | Richard Ree (The Field Museum) – Ivy: interactive, visual programming for phylogenetics |
| | Antonelli et al. (University of Gothenburg) – Using Biological Databases to Infer Large-Scale Patterns of Migration, Diversification, and Niche Evolution |
| | Langille et al. (Dalhousie University) – Leveraging ancestral state reconstruction to infer community function from a single marker gene |
| | Panel discussion |
| 12:00 - 1:30 pm | Lunch break (lunch not provided) |
| 1.30 - 2:15 pm | Challenge Presentations: Synthesizing Trees |
| 2.15 - 2:45 pm | Lightning talks |
| 2:45 -3:15 pm | Break |

Rm. 215

iEvoBio Session 2

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| 2:45 - 3:15 pm | Break (and setup for software bazaar) |
| 3:15 - 5:30 pm | Software Bazaar & Geneious Challenge |
| 5:30 pm | Adjourn for Day 1 |

iEvoBio schedule - Wednesday, July 11

Rm. 205 [Note room change from Tuesday]

iEvoBio Session 3

9:00 - 9:15 am Logistics

9:15 - 10:15 am Keynote: Dan Whaley (Hypothes.is)

10:15 – 10:45 am Break

10:45 am - 12:15 pm Full talks

Vision & Piwowar (University of North Carolina) – Data reuse and scholarly reward: understanding practice and building infrastructure

Stucky et al. (University of Colorado) – The Triplifier Simplifier --- Making it easy to become part of the semantic web for biological data producers

Joel Sachs (University of Maryland) – Normalizing Biodiversity Ontologies for the Semantic Web

Fiston-Lavier et al. (Stanford University) – Screening for adaptation evidences: Annotation of transposable elements in population next-generation sequencing data using T-lex

Sethuraman et al. (Iowa State University) – MULTICLUST – Multinomial Clustering of Multi-locus Genotypes to Identify Genetic Subpopulation Structure

Panel Discussion

12:15 - 1:45 pm Lunch Break

1:45 - 2:30 pm Lightning talks

2:30 - 3:00 pm Birds-of-a-Feather

3:00 - 3:30 pm Break (floating)

3.30 - 4:15 pm Birds-of-a-Feather

4:15 - 4:40 pm Birds-of-a-Feather report out

4:40 - 4:45 pm Challenge Award

4:45 - 5:00 pm Wrap-Up

5:00 pm End of iEvoBio 2012

Poster session 1 – Saturday, July 7

7:30 - 10:30, Canada Hall 1 (CH), Parliament foyer (PF) & Trillium ballroom (TB)

(Bold denotes presenting author.)

Adaptation

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|----------|---|
| CH 1 | Correlation between adaptation to glucose and voltage in a microbial fuel cell Jones, Andrew; Bair, E. Ashley ; Athawale, Samita |
| CH 2 | Loss of an anti-predator adaptation in the electric knifefish genus <i>Gymnotus</i> (Gymnotidae: Teleostei) Brochu, Kristen ; Crampton, Will; Maldonado, Javier; Lovejoy, Nathan |
| CH 3 | The evolution of eye morphology in Hawaiian damselflies Butler, Marguerite A. ; Scales, Jeffrey J.; Evers, Shannon N. |
| CH 4 | A genetic dissection of local adaptation to a granite outcrop environment in <i>Mimulus</i> Ferris, Kathleen G. ; Willis, John H. |
| CH 5 | Understanding pathways to bacterial adaptation to aerobic and anaerobic environments through experimental evolution and whole genome analysis Finn, Tom ; Shewaramani, Sonal; Kassen, Rees; Leahy, Sinead; Rainey, Paul; Moon, Christina; |
| CH 6 | Causes and consequences of evolved <i>Pseudomonas</i> biofilm diversity Flynn, Kenneth ; Johnson, Thomas; Cooper, Vaughn |
| CH 7 | Spatial variation in novel host-use by a herbivorous ladybird beetle: Situation across SE Asia Fujiyama, Naoyuki ; Kikuta, Shogo; Koji, Shinsaku; Kahono, Sih; Katoh, Toru; Katakura, Haruo; |
| CH 8 | Phenotypic Evidence for Local Adaptation to Heat Stress in <i>Chlorostoma funebris</i> Gleason, Lani ; Burton, Ronald |
| CH 9 | Adaptive radiations in soil Gomez, Pedro ; Buckling, Angus |
| CH 10 | An experimental test of the adaptive value of white color in White Sands lizards Hardwick, Kayla M. ; Rosenblum, Erica Bree |
| CH 11 | Genetic network architecture and the G matrix under divergent selection Hether, Tyler ; Hohenlohe, Paul |
| CH 12 | Spatial variation in novel host use by a herbivorous ladybird beetle: Inter-populational differences at a fine scale Kikuta, Shogo ; Fujiyama, Naoyuki; Koji, Shinsaku; Kahono, Sih; Dwibadra, Dian; Katakura, Haruo |
| CH 13 | Evolution and development of adaptive skeletal variation in deer mice Kingsley, Evan ; Kozak, Krzysztof; Lin, Kevin; Hoekstra, Hopi |
| CH 14 | Temperature and salinity stress on <i>Tigriopus californicus</i> populations Leong, Wai |
| CH 15 | Analyses of a selective sweep in warfarin resistant rats Li, Shuwei ; Lan, Zhenjiang; Song, Ying; Kohn, Michael |
| CH 16 | Thermal adaptation and the flight of the Glanville fritillary butterfly Mattila, Anniina L. K. ; Hanski, Ilkka |
| CH 17 | Predators create both extrinsic prezygotic and postzygotic isolation in <i>Senecio pinnatifolius</i> Melo, Maria-Clara ; Grealy, Alicia; Brittain, Beth; Walter, Greg; Roda, Federico; Ortiz-Barrientos, Daniel |
| CH 18 | Theoretical morphological approach to the diversity of gastropod shells Noshita, Koji |

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| CH 19 | Adaptation in the pinyon pines Ortiz-Medrano, Alejandra ; Piñero, Daniel |
| CH 20 | Marginal overdominance in salinity tolerance in <i>E. affinis</i> Posavi, Marijan ; Larget, Bret; Gelembiuk, Gregory; Lee, Carol |
| CH 21 | The evolution of lizard locomotor performance Scales, Jeffrey ; Butler, Marguerite |
| CH 22 | Relaxed selection within a <i>Heliconius</i> hybrid zone mediates maintenance of adaptive trait diversity Shaak, Steven G. ; Brooks, Christopher P.; Brian A. Counterman |
| CH 23 | Cadmium tolerance in populations of <i>Daphnia pulicaria</i> from lakes impacted by decades of smelter pollution: comparative and functional genomic analysis of a putatively adaptive phenotype Turner, Elizabeth ; Glaholt, Stephen; Shaw, Joe |
| CH 24 | The evolution heterocarpy and climatic niche in the tribe Brassiceae Willis, Charles G. ; Hall, Jocelyn C.; Donohue, Kathleen |
| Behaviour and social evolution | |
| CH 25 | Colour and pattern similarity in mimicry Aronsson, Marianne ; Gamberale-Stille, Gabriella |
| CH 26 | Towards a unified theory of the ecology of sociality Aviles, Leticia ; Filin, Ido; Barefield, Michael; Holt, Robert |
| CH 27 | Individual differences in budgerigars: learning and personality Bonin, Marie-Pierre ; Giraldeau, Luc-Alain |
| CH 28 | Unraveling the control systems driving feather-louse thermo-orientation behavior Boughton, Rachel ; Shine, Pat; Harbison, Christopher |
| CH 29 | Dawn song and breeding stage in Eastern phoebes Bruni, Adrianna ; Foote, Jennifer |
| CH 30 | Novelty-seeking behaviour in Trinidadian guppies is enhanced by a widely used stimulant De Serrano, Alex ; Fong, Charmaine; Rodd, Helen |
| CH 31 | Female-biased dispersal in Guinea baboons - a comparative study Fickenscher, Gisela ; Ferreira da Silva, Joana Maria; Fischer, Julia; Roos, Christian; Zinner, Dietmar |
| CH 32 | Analysis of empirical complex group behaviour using simulation, with parameter fitting by ABC methods Foley, Brad ; Saltz, Julia; Nuzhdin, Sergey; Marjoram, Paul |
| CH 33 | Physiological-behavioral mechanisms and ecological consequences on energy-saving strategies in the only hibernating S.American mammals, the "Monito del Monte" <i>Dromiciops gliroides</i> (MARSUPIALIA: Microbiotheriidae) Franco, Marcela ; Contreras, Carolina; Cortes, Pablo; Nespolo, Roberto |
| CH 34 | How a transition to permanent sociality affects individual prey capture capabilities among sympatric social spider species Harwood, Gyan ; Aviles, Leticia |
| CH 35 | Promiscuity predicts resource allocation and offspring size in natural populations of <i>Nucella ostrina</i> , a marine intertidal gastropod Kamel, Stephanie ; Grosberg, Richard |
| CH 36 | Comparative brood dynamics and cannibalism across a latitudinal gradient for the Imported Willow Leaf Beetle, <i>Plagioderma versicolora</i> Lenz, Jamie ; Bleakley, Bronwyn |
| CH 37 | Sonic, ultrasonic and vibration characteristics of acoustic communication signals in the Mountain Pine Beetle <i>Dendroctonus ponderosae</i> (Coleoptera: Curculionidae, Scolytinae) Lindeman, Amanda A. ; Fleming, Alan J.; Yack, J. E. |

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| CH 38 | Fitness consequences of behavioral responses to a varying operational sex ratio O'Rourke, Cynthia ; Mendelson, Tamra |
| CH 39 | Activity patterns of <i>Xylocopa virginica</i> reveal colony social organisation Richards, Miriam ; Course, Chris; Vickruck, Jess |
| CH 40 | Niche evolution and interspecific information use Seppänen, Janne-Tuomas |
| CH 41 | Attentive parents experience few trade-offs between offspring care and nest defense in wild threespine stickleback Stein, Laura R. ; Bell, Alison M. |
| Biogeography | |
| CH 42 | Distribution and biogeography of northern Nearctic mayflies, stoneflies and caddisflies Cordero, Ruben ; Currie, Douglas |
| CH 43 | Biogeography and genetic divergence of the plum curculio beetle across eastern North America Crane, Samuel |
| CH 44 | The significance of a hydrological link between the Amazon River basin and the eastern Guiana Shield on the Neotropical ichthyofauna de Souza, Lesley |
| CH 45 | Neogene origins of widespread Neotropical tree species Dick, Christopher |
| CH 46 | Out of Africa and back again: systematics and biogeography of <i>Melanitis</i> butterflies (Nymphalidae: Satyrinae) Doleck, Tenzing ; Lohman, Dave |
| CH 47 | Quaternary biogeography of <i>Neotoma cinerea</i> : linking genetic patterns with environmental change Hornsby, Angela ; Matocq, Marjorie |
| CH 48 | A phylogeographic analysis of the <i>Hyalella azteca</i> species complex: Incongruence between mitochondrial and nuclear DNA. Hryciyshyn, Matthew ; Witt, Jon |
| CH 49 | Ecophysiological analysis of species variation in geographic range size: a test case in plethodontid salamanders Markle, Tricia ; Kozak, Kenneth |
| CH 50 | Revealing complex biogeographical relationships in the Northern Andes: A perspective using molecular phylogeny of Mabuya lizards Pinto-Sánchez Nelsy ; Calderón, Martha; Crawford Andrew J; Miralles, Aurelien; Ramírez-Pinilla Martha |
| CH 51 | New species of Austropurcellia (Arachnida, Opiliones, Cyphophthalmi) from Southern Queensland Popkin-Hall, Zachary ; Boyer, Sarah |
| CH 52 | Estimating times of postglacial recolonization of lake Hovsgol by fishes using mtDNA coalescent analysis Ivana, Roman ; Hickerson, Michael; Waldman, John |
| CH 53 | An integrative study of niche evolution in Brazilian Atlantic Rainforest lizards Strangas, Maria ; Rodrigues, Miguel; Carnaval, Ana |
| CH 54 | Bridges and islands in the sky. Do speciation patterns in Shortwings on Western Ghats sky islands correspond to ecological breaks? Vadayil Vijayan, Robin ; Nyari, Arpad; Ramakrishnan, Uma; Reddy, Sushma |
| CH 55 | Challenging the LGM contraction paradigm: multilocus and environmental data support expansion of butcherbird ranges in Australia Kearns, Anna ; Joseph, Leo; Cook, Lyn |

Bioinformatics & computational biology

- CH 56 Profiling diverse levels of natural selection across regions of coding gene sequences
Li, Ning; Zhang, Zhang; Townsend, Jeffrey
- CH 57 Evolutional and transcriptional gene network in poplar
Suren, Haktan; Holliday, Jason
- CH 58 TreeHouse: query, filter, explore
Brammer, Grant; Williams, Tiffani
- CH 59 Increasing the speed of simulations of biochemical reaction networks
Ehlert, Kurt; Loewe, Laurence
- CH 60 Death on a neutral landscape
King, Dawn; Scott, Adam; Maric, Nevena; Bahar, Sonya
- CH 61 Nutritional conditions constraining evolution of *Shigella* genomes
Lee, Choong Hoon; Lee, Dae-Hee; Kim, Jihyun F.
- CH 62 Estimating distributions of mutational effects using an evolutionary systems biology approach in a circadian clock
Loewe, Laurence

Conservation Biology

- CH 63 Is environmental damage measurable? An ecological approach to study impacts caused by GM crops.
Benitez, Marina; Lic. Alavez, Valeria; M.C. Wegier, Ana Laura
- CH 64 Contributions and comparative fitness of wild- and hatchery-origin walleye in Black Bay, Lake Superior
Garner, Shawn; Wilson, Chris; Bobrowicz, Steven
- CH 65 Genetic variation of endangered Swedish local breeds of chicken and sheep
Johansson, Anna M; Lina Strömstedt; Anna Näsholm
- CH 66 A comparative analysis of butterfly richness detection capacity of Pollard transects and general microhabitat surveys
Létourneau, Isabelle; Larrivée, Maxim; Morin, Antoine
- CH 67 Does the population concept apply to woodland caribou?
Polfus, Jean; Manseau, Micheline; Galpern, Paul; Wilson, Paul
- CH 68 Modeling genetic variation of bison based on current culling strategies
Toldness, Rachael; Ivy, Jamie; Jones, Lee; Latch, Emily
- CH 69 Does ancient DNA predict the extinction of populations of Darwin's finches?
Farrington, Heather; **Petren, Kenneth**
- CH 70 Genetic diversity of the dung beetle, *Copris tripartitus* (Coleoptera:Scarabaeidae), that is endangered in Korea
Park, Joong Won; Kang, Ah Rang; Kim, Ki-Gyoung; Kim, Iksoo
- CH 71 Using modern and ancient genetic variation to infer demographic history and develop baselines for coral reef conservation and management
Chan, Yvonne L.; Longenecker, Kenneth; Carlon, Dave; Hunt, Terry; Toonen, Robert J.

Ecological genetics

- CH 72 Evolvability in a variable world: constraints and Evolutionary trajectories for *Arabidopsis thaliana* populations grown across a N-supply gradient
Elnaccash, Tarek; Tonsor, Stephen J.
- CH 73 Transcriptomic analysis to infer mechanisms of insecticide resistance in the Colorado potato beetle
Grapputo, Alessandro; Londono, Diana K.; Szendrei, Zsofia

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| CH 74 | A genomic scan for selective sweeps in two ecological species of <i>Daphnia</i> Persall, David ; Injic, Steven; Cristescu, Melania |
| CH 75 | Variation in nuclear and mitochondrial genes important for energy metabolism in a montane leaf beetle Rank, Nathan ; Heidl, Sarah; Zavala, Nic; Mardulyn, Patrick; Smiley, John; Dahlhoff, Elizabeth |
| CH 76 | Transposon-free insertions for insect genetic engineering Dafa'alla, Tarig; Condon, George C ; Condon, Kirsty; Phillips, Caroline; Fu, Guoliang; Alpey, Luke |
| CH 77 | Genetic mechanisms driving to melanic polymorphism in an island bird Bourgeois, Yann |
| CH 78 | Population genetics of the red alga <i>Furcellaria lumbricalis</i> along a salinity gradient based on microsatellite and SNP markers Olsson, Sanna ; Kostamo, Kirsi; Korpelainen, Kirsi |
| CH 79 | Population fragmentation and decline in the endangered Pugnose Shiner McCusker, Megan ; Lovejoy, Nathan; Mandrak, Nicholas |
| CH 80 | Comparative seasonal variation of microsatellites and allozymes in two <i>Drosophila mediopunctata</i> populations from Araucaria Forest in Brazil Machado, Luciana P. B. ; Cavasini, Renato; Tractz, Carine C.; Mateus, Rogerio P. |
| CH 81 | High allozyme diversity and differentiation among <i>Drosophila maculifrons</i> populations from Brazilian Atlantic Forest Biome Mateus, Rogerio ; Silva, Daniele C.; Salomon, Gabriela R.; Trava, Bruna M.; Machado, Luciana P. B. |
| CH 82 | Molecular signatures of adaptive divergence in brown trout: a 4k SNP approach Als, Thomas |
| CH 83 | Hidden Diversity of the Scleractinian genus, <i>Porites</i> , in the Eastern Tropical Pacific Boulay, Jennifer ; Cortes, Jorge; Hellberg, Michael; Baums, Iliana |
| CH 84 | The effect of habitat and genetic variation on phenotypic plasticity within the sexes Brzyski, Jessica ; McLetchie, Nicholas |
| CH 85 | Human impact on evolutionary responses in a <i>Daphnia</i> population observed over 1600 years Frisch, Dagmar ; Morton, Philip K; Roy Chowdhury, Priyanka; Culver, Billy; Weider, Lawrence J.; Jeyasingh, Punidan D. |
| CH 86 | Competitive superiority after ~700 years of adaptation in <i>Daphnia pulex</i> Morton, Philip K ; Frisch, Dagmar; Jeyasingh, Punidan D.; Weider, Lawrence J. |
| CH 87 | Environmental contingencies for adaptive mutations in <i>E. coli</i> Hall, Anne ; Jones, Andrew; Moore, Francisco B.G. |
| CH 88 | Evolutionary interactions between sexual and asexual <i>Daphnia pulex</i> Innes, David ; Miao, Kan |
| CH 89 | Scape morph frequencies and Fst at microsatellites loci suggest divergent selection on floral display in <i>Primula farinosa</i> Madec, Camille ; Ehrlén, Johan; Ågren, Jon |
| CH 90 | Population genomics of hybridization between native and introduced suckers (Catostomidae) Mandeville, Elizabeth ; Parchman, Thomas; Buerkle, C. Alex |
| CH 91 | Patterns of mitochondrial DNA haplotypes from beluga whales (<i>Delphinapterus leucas</i>) in space and time: influence of matriline on summer habitat use in the Beaufort Sea Postma, Lianne ; Tenkula, Denise; Docker, Margaret |
| CH 92 | Genome size correlates with life history type in the genus <i>Ceanothus</i> Kaczowski, Daniel; Martinez, Guadalupe; Vandergon, Thomas |
| CH 93 | Molecular consequences of a Mycoplasma epizootic in natural populations of the house finch (<i>Carpodacus mexicanus</i>): Allele frequency changes in potential Cis-regulatory regions Blom, Mozes ; Shipilina, Daria; Edwards, Scott; Backström, Niclas |

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| CH 94 | Fine-scale cytonuclear structure and sex determination in the flowering plant <i>Silene vulgaris</i> (Caryophyllaceae) Sanderson, Brian ; Taylor, Douglas |
| CH 95 | Selection-constrained dispersal drives fine-scale genetic differentiation along an altitudinal gradient in an island-endemic passerine bird (<i>Zosterops borbonicus</i>) Bertrand, Joris ; Pujol, Benoît; Bourgeois, Yann; Delahaie, Boris; Mila, Borja; Thébaud, Christophe |
| CH 96 | Genetic and phenotypic analysis of natural freeze tolerance variation in <i>Mimulus</i> Moore, Margaret ; Smith, Clifford ; Wu, Carrie |
| CH 97 | Population genetic structure of the pitcher plant mosquito across multiple spatial scales using AFLP markers Zilic, Kristina ; Keyghobadi, Nusha |
| TB 209 | Gene expression of hsp70s: a glimpse into thermal adaptation of Iberian <i>Squalius</i> Jesus, Tiago ; Inácio, Ângela; Coelho, Manuela; Val, Vera |
| Ecology / evolution of disease | |
| PF 101 | Explaining synchrony in malaria infections: why maximize within-host competition? Greischar, Megan A. ; Huijben, Silvie; Read, Andrew F.; Bjørnstad, Ottar N. |
| PF 102 | R-gene expression plasticity as a means to mitigate fitness costs of resistance in <i>Arabidopsis thaliana</i> MacQueen, Alice ; Bergelson, Joy |
| PF 103 | The consequences of vaccination on human Papillomavirus in-host ecology Murall, Carmen Lia ; Bauch, Chris; McCann, Kevin S. |
| PF 104 | Evolution of resistance in a <i>Daphnia</i> -fungus host-parasite system Shocket, Marta ; Penczykowski, Rachel; Hite, Jessica; Duffy, Megan; Hall, Spencer R. |
| PF 105 | Genomic basis of PAMP-induced growth inhibition in <i>Arabidopsis thaliana</i> Vetter, M. Madlen ; MacQueen, Alice; Bergelson, Joy |
| PF 106 | Virulence evolution in multi-group hosts Williams, Paul |
| PF 107 | Toward the development of novel long-term pest control strategies based on insect ecological and evolutionary dynamics Alavez, Valeria ; Wegier, Ana; Cerritos, René |
| PF 108 | Why do we die from infection? Success of an altruistic suicidal defense strategy in a structured habitat Fukuyo, Masaki ; Sasaki, Akira; Kobayashi, Ichizo |
| Evolutionary genetics | |
| PF 109 | Transgenerational epigenetic inheritance in <i>Drosophila melanogaster</i> Grace, Jaime ; Friberg, Urban |
| PF 110 | The evolution of female reproductive isolation genes Jancke, Bettina M. ; Marshall, Jeremy L. |
| PF 111 | Effective population size estimates in a demographically and genetically monitored metapopulation of <i>Silene latifolia</i> Gilbert, Kimberly J. ; Fields, Peter D.; Taylor, Douglas R. |
| PF 112 | Mutation accumulation under multiple stressors in <i>Daphnia pulex</i> Vergilino, Roland ; Injic, Steven; Trudell, Steven; Cristescu, Melania |
| Evolutionary theory | |
| PF 113 | The response to selection in gynodioecious populations Augat, Malcolm ; Brodie III, Edmund D. |
| PF 114 | Sex chromosome evolution in <i>Coleoptera</i> Blackmon, Heath ; Demuth, Jeffery |

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| PF 115 | Drift alters the trajectory of the evolution of recombination modifiers under antagonistic coevolution Charles, Kate; Lively, Curt |
| PF 116 | Is foregut fermentation a trump in seasonal habitats? Testing how an evolutionary innovation shapes species richness in a primate radiation Tran, Lucy A.P.; Knowles, L. Lacey |
| PF 117 | Modulating the rate of evolution by the presence of germ bank Pietrzak Barbara; Spigler Rachel; Caswell Hal |
| PF 118 | Cancelled |
| PF 119 | An analytical contrast between fitness maximization and selection for mixability Livnat, Adi; Papadimitriou, Christos; Feldman, Marcus W. |
| PF 120 | A time-specific model of phenotypic plasticity and the evolution of trait flexibility Dosmann, Andy |
| PF 121 | Evolutionary jumping and breakthrough in tree masting evolution Tachiki, Yuuya; Iwasa, Yoh |
| PF 122 | The distribution of ancestral segment lengths Campbell, R.B. |
| PF 123 | Modeling non-equilibrium shifting optimizing adaptive evolution in changing selection and ecological conditions Cohen, Dan |
| PF 124 | Simulating Muller's ratchet in vesicular stomatitis virus Keel, Seth; Loewe, Laurence |
| Genomics | |
| PF 125 | The genomics of adaptation to climate: De novo assembly and gene expression analysis of interior spruce and lodgepole pine Hodgins, Kay; Yeaman, Sam; Rieseberg, Loren; Nurkowski, Kristin; Aitken, Sally |
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| TB 302 | Plant mating systems and the evolutionary ecology of defence strategies Campbell, Stuart ; Kessler, André |
| Systematics | |
| TB 303 | New species of mite harvestmen from Australia's Wet Tropics identified with morphology and molecular data Baker, Caitlin ; Popkin-Hall, Zachary; Lauko, Domokos; Boyer, Sarah |

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| TB 305 | First reported case of a trans-oceanic sister-group relationship between troglobites Chakrabarty, Prosanta ; Davis, Matthew; Sparks, John |
| TB 305 | Phylogeny and biogeography of the <i>Oedionychina</i> flea beetles (Coleoptera: Chrysomelidae) with discussion of the impact of mimicry complexes in this group Duckett, Catherine ; Agrwal, Smriti; Kjer, Karl; Lovett, Brad |
| TB 306 | Species-tree estimation using SNP data from deep sequencing in non-model organisms He, Qixin ; Knowles, L. Lacey |
| TB 307 | Systematics and biogeography of the New World Nightjars (Caprimulgidae) Sigurdsson, Snorri ; Cracraft, Joel |
| Undergraduate diversity posters | |
| TB 308 | Genetic variation underlying drought tolerance in <i>Arabidopsis thaliana</i> McGovern, Cullen ; Mojica, Julius; Snelling, Jacob; Beck, James; McKay, John |
| TB 309 | Brain evolution and heat stress: A test of two hypotheses Cadney, Marcell ; Carter, Ashley |
| TB 310 | Ecological requirements and distribution of the amphibian chytrid fungus in the Brazilian Atlantic forest Rizzo, Barbara ; Carnaval, Ana |
| TB 311 | A phylogenetic study of Brazilian glassfrogs (<i>Vitreorana</i>) - exploring species tree methods Spanos, Zoe ; Carnaval, Ana |
| TB 312 | Comparative phylogeography of <i>Mabuya dorsivittata</i> and <i>Placosoma</i> species in the Brazilian Atlantic Rainforest Rivera, Danielle ; Cheu, Millicent; Carnaval, Ana |
| TB 313 | Re-evolution of female eyes in <i>Euphilomedes asinatantus</i> (Ostracoda: Myodocopida: Philomedidae), a new marine species from Caribbean coastal waters of Panama Juarez, Bryan ; Zaharoff, Alexander K.; Rivera, Ajna; Oakley, Todd H. |
| TB 314 | Indirect genetic effects influence learning in guppies Rota, Nichole ; Wong, Allyssa; Feeney, Nora; Bronwyn Bleakley |
| TB 315 | Evaluating prior sensitivity in Bayesian divergence time estimation methods Govinthatnam, Anenshiya ; Heath, Tracy A. |
| TB 316 | Two cryptic sympatric species of <i>Costasiella</i> in the Bahamas evolved allopatrically Espinoza, Erika ; Valdés, Ángel |
| TB 317 | Birth, death, and replacement of karyopherins in <i>Drosophila</i> Hsieh, Emily ; Phadnis, Nitin; Malik, Harmit |
| TB 318 | Adaptive improvement of bacteriophage PP01 on <i>Escherichia coli</i> through experimental evolution Akusobi, Chidiebere ; Wertz, John; Turner, Paul E. |
| TB 319 | Frequency and distribution of lactase persistence alleles in Kenyan coastal populations Erazo, Talisa ; Raaum, Ryan L. |
| TB 320 | Do the volatile composition differences found in sterile and fertile anthers in <i>Mimulus guttatus</i> contribute to inbred discrimination by <i>Bombus impatiens</i> ? Lee, De'Ashia ; Carr, David |
| TB 321 | The influence of food quality on intraspecific larval competition in the cowpea weevil <i>Callosobruchus maculatus</i> Singh, Japteg ; Dyck, Markus; Nelson, William; Loughheed, Stephen |
| TB 322 | Assessing relatedness of cooperative sperm cells: From single cell isolation to genomics Xu, Cong "Charles" ; Fisher, Heidi; Hoekstra, Hopi |
| TB 323 | Symbiodinium changes under coral disease events in <i>Montastraea faveolata</i> Cortes Garcia, Mario ; Closek, Collin; Medina, Monica |

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| TB 324 | Thermal physiology of the ground skink (<i>Scincella lateralis</i>), a temperate thermo-conformer Norman, Devin K. ; Watson, Charles M. |
| TB 325 | The relationship between infectivity and virulence in an aquatic vertebrate virus McKenney, Douglas ; Wargo, Andrew |
| TB 326 | Patterns of <i>Wolbachia</i> infection in relation to Malagasy butterfly phylogeography Clark, Nicholas ; Faustermann, Tracy; Lees, David; Anthony, Nicola |
| TB 327 | Secondary metabolite comparison in the polyploids of a dominant desert shrub (<i>Larrea tridentata</i>): known use in cancer treatment, unknown function in the native plant Zuravnsky, Kristin; Mayes, Sara; Herrera, Michelle; Coppinger, Amanda ; Hunter, Kimberly |
| Phylogeography – late addition | |
| TB 328 | Karstification and micro-scale vicariance - diversification of stream insects in the Dinaric western Balkan Pauls, Steffen; Schnitzler, Jan ; Previsic, Ana |

Reminder:

- *2nd annual NESCent Evolution film festival* – Saturday, July 7, 9:30 - 10:30 pm, Rm. 208
Come out to view and vote on your favorite 3 min videos. We'll supply the popcorn!
Winners will be announced and screened at the farewell dinner on Tuesday, July 10. To find out more, stop by the NESCent booth or visit filmfestival.nescent.org.

Poster session 2 – Monday, July 9

7:30 - 10:30, Canada Hall 1 (CH), Parliament foyer (PF) & Trillium ballroom (TB)

(Bold denotes presenting author.)

Adaptation

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| CH 1 | Evolution in brain morphology in response to artificial selection on skull shape in the domestic dog McElroy, Catherine ; Kent, Marc; Hoffman, Jessica; Creevy, Katee; Promislow, Daniel |
| CH 2 | Search for evidence of selection on the MTHFR 677 C>T polymorphism in the Colombian population Riaño Moreno, Julian; Vargas, Elizabeth; Sanchez, Magda Carolina; Martinez-Aguero, Maria |
| CH 3 | Testing the specificity of a predator cue in relation to phylogeny in a salamander-sunfish system Chandler, Rachel ; Niedzwiecki, John |
| CH 4 | Sexual conflict and the evolution of the placenta in poeciliids Kwan, Lucia ; Panhuis, Tami; Rodd, Helen; Rowe, Locke |
| CH 5 | Seedling responses to root exudates produced by siblings and strangers in <i>Cakile edentula</i> Bhatt, Mudra ; Dudley, Susan A |
| CH 6 | Evolution of an agricultural weed, <i>Helianthus annuus</i> Drummond, Emily ; Rieseberg, Loren |
| CH 7 | Local adaptation to thermal regime in early life stages of calyptreid gastropods with different developmental modes Cahill, Abigail E. |
| CH 8 | Detecting clinal variation in heat tolerance of <i>Drosophila subobscura</i> populations of South America Castañeda, Luis E. ; Rezende, Enrico L.; Santos, Mauro |
| CH 9 | The role of phenotypic plasticity in evolution: Assessing the adaptive value of phenotypic plasticity Richards, Thomas ; Walter, Greg; Ortiz-Barrientos, Daniel |
| CH 10 | Altitudinal effects on energy acquisition ability in a small mammal (<i>Phyllotis xanthopygus</i> , Rodentia: Muridae) Sassi, Paola L. |
| CH 11 | Epistasis between the first beneficial mutations Ono, Jasmine ; Gerstein, Aleeza; Otto, Sarah |
| CH 12 | Genomic signatures of laboratory domestication in <i>Drosophila melanogaster</i> Stanley, Jr., Craig ; Kulathinal, Rob |
| CH 13 | The nature of beneficial mutations in structured environments Staples, Rachel ; Cooper, Vaughn |
| CH 14 | Fine-scale evolutionary dynamics in an <i>Escherichia coli</i> long-term evolution experiment Maddamsetti, Rohan ; Meyer, Austin; Lenski, Richard; Barrick, Jeffrey |
| CH 15 | Population genomics of biofilm evolved <i>Burkholderia cenocepacia</i> Traverse, Charles ; Mayo-Smith, Leslie; Poltak, Steffen; Cooper, Vaughn |
| CH 16 | The view from 50,000 generations: analysis of fitness trajectories in a long term evolution experiment in <i>Escherichia coli</i> Wiser, Michael J ; Lenski, Richard E |
| CH 17 | Unique mechanosensory adaptation to extreme environments in cavefish Haspel, Gal; Schwartz, Adina; Street, Amy; Escobar Camacho, Daniel; Soares, Daphne |
| CH 18 | Patterns of local adaptation in sympatric and allopatric Arctic and red fox populations Drago, Caroline G. ; Kyle, Christopher |
| CH 19 | Using population genomics to understand the evolution of edaphic tolerance in the serpentine sunflower, <i>Helianthus exilis</i> Owens, Gregory L. ; Rieseberg, Loren |

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| CH 20 | A landscape genomics approach to identify the genetic mechanism of adaptation in the <i>Anolis marmoratus</i> complex on Guadeloupe McGreevy, Thomas J. ; Crawford, Nicholas G.; Schneider, Christopher J. |
| CH 21 | Evolving color: analysis of carotenoid genes in wild tomatoes Gillis, Ian ; Caicedo, Ana |
| CH 22 | Facing a warming world: Rapid climate change, adaptation and the competitive outcome between a native and an invasive snail species Schulz, Friederike ; Laurila, Anssi |
| Behaviour and social evolution | |
| CH 23 | Social associations in young convict cichlid fish: ecology and kinship Lee-Jenkins, Stacey ; Godin, Jean-Guy |
| CH 24 | Ecology of weapon use in crayfish Taylor, Graeme |
| CH 25 | Trust yourself or follow the others? Influence of inadvertent social information on foraging behaviour of zebra finch Tommasina Simone ; Giraldeau Luc-Alain |
| CH 26 | Exploration and experience affect microhabitat selection in juvenile eastern chipmunks Turgeon, Geneviève ; Dubuc Messier, Gabrielle; Montiglio, Pierre-Olivier; Garant, Dany; Réale, Denis |
| CH 27 | Origins of altruism diversity Van Dyken, J. David |
| CH 28 | Linking mate choice to hearing and ear structure in <i>Engystymops (Physalaemus) petersi</i> Womack, Molly ; Christensen-Dalsgaard, Jakob; Brandt, Christian; Hoke, Kim |
| CH 29 | Individual and geographic variation in Eastern phoebe songs Foote, Jennifer ; Palazzi, Erica |
| CH 30 | The role of serotonin in the rolling behavior of the domestic pigeon Minear, Krystle ; Frisch, Annah; Shapiro, Mike |
| CH 31 | Androgen and aggression profiles of ancestral dull and derived red-throated female threespine sticklebacks Yong, Lengxob ; Pradhan, Devaleena; Grober, Matthew; McKinnon, Jeffrey |
| CH 32 | The melanocortin system links color and social behavior in the cichlid fish <i>Astatotilapia burtoni</i> Dijkstra, Peter ; Hofmann, Hans |
| CH 33 | Age-dependent effect of testosterone on social rank in bighorn rams (<i>Ovis canadensis</i>) Martin, Alexandre M ; Presseault-Gauvin, Hélène; Festa-Bianchet, Marco; Pelletier, Fanie |
| CH 34 | Estimating fitness to predict habitat selection of a model organism Moses, MaryJane ; Morris, Douglas |
| CH 35 | Fluctuating and nonlinear selection on behaviour in a wild population of red squirrels Taylor, Ryan W. ; Boutin, Stan; Humphries, Murray M.; Gorrell, Jamieson C.; Coltman, David W.; McAdam, Andrew G. |
| CH 36 | Presence of exotic red-eared sliders alters basking behaviour of native turtles in Ontario Nocera, Joseph |
| CH 37 | If a bird flies in the forest, does a butterfly (or any other insect) hear it? McMillan, Laura ; Fournier, JP; Yack, Jayne |
| CH 38 | Do bacteria defend social amoeba against nematodes? Adu-Oppong, Boahemaa ; Canas, Alicia; Adefaratum, Oluwadamilola; Strassmann, Joan E; Queller, David C. |
| CH 39 | Biological determinants of social structure among cooperative <i>Dictyostelium</i> amoebae Smith, Jeff ; Strassmann, Joan; Queller, Dave |

Biogeography

- CH 40 Coastal retreat: postglacial colonization or glacial refugium on Haida Gwaii?
Taylor, Scott; Birt, Tim; Burg, Theresa; Friesen, Vicki
-
- CH 41 Four species, one face: How do amphipods of the *Hyaella azteca* cryptic species complex distribute among lakes at the regional scale?
Dionne, Kaven; Levivier, Aurore; Dufresne, France; Gravel, Dominique; Nozais, Christian
-
- CH 42 Using ecological niche models to study the effects of climatic change on species distributions: analyses with the Malagasy small mammals *Eliurus majori* and *Microgale longicaudata*
Boria, Robert A.; Shcheglovitova, Mariya; Radosavljevic, Aleksandar; Jansa, Sharon A.; Olson, Link E.; Anderson, Robert P.
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- CH 43 Understanding geographic range limits in a widespread salamander
Lee-Yaw, Julie
-
- CH 44 Intraspecific sexual size and shape dimorphism in a freshwater fish differs relative to a biogeographic barrier
Folinsbee, Kaila; Kelly, Clint; Adams, Dean; Jennions, Michael
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- CH 45 Anisotropic isolation by distance: the main orientations of human genetic differentiation
Jay, Flora; Sjödin, Per; Jakobsson, Mattias; Blum, Michael GB
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- CH 46 Introgression between Pacific and Atlantic herrings (*Clupea pallasii* and *C. harengus*) following post-glacial inter-oceanic dispersal
Laakkonen, Hanna; Lajus, Dmitry; Strelkov, Petr; Väinölä, Risto
-
- CH 47 Phylogenetic niche dynamics and the speciation process in *Eriosyce subgen. Neoporteria* (Cactaceae) under climatic gradients at Mediterranean Chile
Guerrero, Pablo; Bustamante, Ramiro; Arroyo, Mary
-
- CH 48 Diversification and function of a novel reproductive trait: Unilateral testicular pigmentation in *Sceloporus variabilis*
Johnson, Benjamin B.

Bioinformatics & computational biology

- CH 49 Evolution of tRNA in *Drosophila*
Phillips, Julie; Ardell, David
-
- CH 50 Clustering and phase transitions on a neutral landscape
Scott, Adam; King, Dawn; Maric, Nevena; Bahar, Sonya
-
- CH 51 Power Analysis of msBayes and inference of divergence across multiple species
Xie, Xiaouu; Hickerson, Mike
-
- CH 52 ALLELEMATCH: an R package for identifying unique multilocus genotypes using a clustering approach that accommodates error and missing data
Galpern, P; Manseau, M.; Hettinga, P.; Smith, K.; Wilson, P.J.
-
- CH 53 Genome architectural evolution of photosynthetic bacteria
Yoshida, Kaoru
-
- CH 54 Empirical metadata-based quality testing for operational taxonomic units
Schmidt, Sebastian; Matias Rodrigues, João; von Mering, Christian
-
- CH 55 Comparative genome analysis provides insight in pan-genome of *Pseudomonas syringae*
Thakur, Shalabh; O'brien, Heath; Wang, Pauline; Fung, Pauline; Guttman, David

Contemporary evolution

| | |
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| CH 56 | Fishing harvest causes artificial selection on growth rate via behavior Biro, Peter ; Sampson, Portia |
| CH 57 | Clinal variation of SNPs in metabolic pathway genes associated with transcript level in <i>Drosophila melanogaster</i> Lavington, Erik ; Cogni, Rodrigo; Kuczynski, CA; Koury, S; Amella, Maria G; Eanes, WF |
| CH 58 | Cotton evolution in its Center of Domestication: the wild - cultivated continuum Petrone, Sandra ; Uscanga, Adriana ; Alavez, Valeria; Wegier, Ana |
| CH 59 | Hybridization and rapid evolution of invasive aquatic plants in herbicide treated lakes Thum, Ryan ; LaRue, Elizabeth; Zuellig, Matthew |
| CH 60 | A comparison of chinook salmon (<i>Oncorhynchus tshawytscha</i>) egg quality and developmental traits among three great lakes tributaries Thorn, Michael ; Morbey, Yolanda |
| CH 61 | Genome-wide analysis of SNP diversity in experimental crop-wild sunflower populations Corbi, Jonathan ; Baack, Eric J.; Dechaine, Jennifer M.; Burke, John M. |
| CH 62 | Analysis of selection on domestication traits in sunflower (<i>Helianthus annuus</i>) crop-wild hybrids Baack, Eric ; Dechaine, Jennifer M.; Owart, Birkin R.; Seiler, Gerald J.; Burke, John M. |
| CH 63 | Contemporary evolution of antibiotic resistance: 7000 years of bacterial adaption Perron, Gabriel ; Whyte, Lyle; Turnbaugh, Peter; Desai, Michael |
| CH 64 | Plasticity in <i>Leptosiphon androsaceus</i> (Polemoniaceae) morphology and physiology along a moisture gradient Lambrecht, Susan ; Hussey, Rachel |
| CH 65 | Project Baseline: a living resource for the study of evolution Etterson, Julie; Franks, Steven; Mazer, Susan; Updegraff, Karen; Weis, Arthur; Shaw, Ruth |

Development

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| CH 66 | Cold shocks increase spiderling size in two Black Widow species Rathitharan, Nizanthan ; Modanu, Maria; Andrade, Maydianne CB |
| CH 67 | Building blocks of fish mechanoreception: Modularity of lateral line canals in extinct and extant fishes Lehoux, Caroline ; Cloutier, Richard |
| CH 68 | Patterns of adipose fin innervation: ecological and evolutionary insights in fishes Leduc-Lapierre, Michèle ; Cloutier, Richard |
| CH 69 | Artificial selection in mice: a "new" tool for vertebrate evo-devo Rolian, Campbell |
| CH 70 | Molecular mechanisms of shell coiling in gastropods Shimizu, Keisuke ; Setiamarga, Davin; Sarashina, Isao; Kudoh, Tetsuhiro; Endo, Kazuyoshi |

Ecological genetics

| | |
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| CH 71 | Genetic structure of the wild papaya (<i>Carica papaya</i>) in a fragmented rainforest in Mexico Chávez-Pesqueira, Mariana ; Núñez-Farfán, Juan |
| CH 72 | Mapping the genetic basis of symbiotic variation in legume-rhizobium interactions in <i>Medicago truncatula</i> Gorton, Amanda J. ; Heath, Katy D.; Stinchcombe, John R. |
| CH 73 | De novo transcriptome assembly and SNP discovery in <i>Euphydryas gillettii</i> to test for balancing selection McCoy, Rajiv ; Boggs, Carol; Petrov, Dmitri |
| CH 74 | Population genetics of sex ratio variation in the moss <i>Ceratodon purpureus</i> McDaniel, Stuart F. ; Norrell, Tatum E.; Jones, Kelly S.; Ponciano, Jose-Miguel |

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| CH 75 | Evolution in action: parallel evolution of long beaks in an Australian soapberry bug on an ecological time scale Raveendran Thampy, Prasobh; Andres, Jose |
| CH 76 | Untangling the bank: Assessing the phenotypic effects of spontaneous mutations in variable environments Schaack, Sarah |
| CH 77 | The eco-genomics of complex sexual behavior Tuttle, Elaina M.; Gonser, Rusty A.; Romanov, Michael; Korody, Marisa; Houck, Marlys; Lear, Teri |
| CH 78 | Genetic and functional variation in the MHC antigen-binding site of Maine Atlantic salmon Hostert, Ellen E.; Zegers, Gerry |
| CH 79 | The importance of landscape attributes on population patterns of the freshwater fish <i>Galaxias platei</i> in Southern Chile and Patagonia Vera-Escalona, Ivan; Habit, Evelyn; Ruzzante, Daniel E. |
| CH 80 | A multivariate approach to anisotropic spatial autocorrelation: example of a California valley oak population Campagne, Pascal; Smouse, Peter; Sork, Victoria; Grivet, Delphine |
| CH 81 | The influence of landscape on genetic structure of a threatened reptile: the eastern massasauga rattlesnake (<i>Sistrurus c. catenatus</i>) DiLeo, Michelle F.; Lougheed, Stephen C. |
| CH 82 | Population Structure of the deep-sea shrimp <i>Acanthephyra pelagica</i> on the Scotian Shelf Jorquera, Erika; Ruzzante, Daniel; Kenchington Ellen |
| CH 83 | Landscape genetics across spatial scales: studies of the pitcher plant midge Rasic, Gordana; Keyghobadi, Nusha |
| CH 84 | The sensitivity of genetic connectivity measures to unsampled and under-sampled sites Koen, Erin; Bowman, Jeff; Wilson, Paul |
| CH 85 | Connectivity of damselfish populations in the Mozambique Channel inferred from microsatellite analysis O'Donnell, James; Beldade, Ricardo; Williams, Hannah; Mills, Suzanne; Bernardi, Giacomo |
| CH 86 | No evidence for habitat-associated population structure in a beetle that uses three sympatric fungi Wood, Corlett; Donald, Hannah; Formica, Vincent; Brodie III, Edmund |
| CH 87 | Local adaptation to parasites in parapatric populations of threespine stickleback Stutz, William E.; Bolnick, Daniel |
| CH 88 | Hybridization as a window to the ecological genetics of species boundaries in the genus <i>Picea</i> in western North America Haselhorst, Monia SH; Buerkle, C Alex |
| CH 89 | Genomic signatures of selection in a widespread invasive plant, <i>Centaurea solstitialis</i> McTeague, Brianna A; Lai, Zhao; Otto, Sarah P; Rieseberg, Loren H; Dlugosch, Katrina M |
| CH 90 | Nonrandom mating in the American pika (<i>Ochotona princeps</i>) at the northern periphery of its range Robson, Kelsey; Henry, Philippe; Russello, Michael |
| CH 91 | Patterns of breeding system and ploidy polymorphism in <i>Boechera</i> Rushworth, Catherine |
| CH 92 | Relative fitness of self-compatible plants varies with elevation in replicated gardens near Monteverde, Costa Rica Stone, Judy; Reichler, Corey; VanWyk, Emily |
| CH 93 | Mutation accumulation under salt stress in <i>Saccharomyces</i> : increased rates and differential effects for mutations affecting fitness Kozela, Christopher; Johnston, Mark |
| CH 94 | Local adaptation in mutualisms: Tests using legumes and rhizobia Barrett, Luke; Thrall, Peter H.; Broadhurst, Linda |
| CH 95 | Seed predation and the evolutionary maintenance of a flower color polymorphism in <i>Leavenworthia stylosa</i> Herlihy, Christopher; Folks, Julie; Dixon, Andrea; Busch, Jeremiah |

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| CH | Evolutionary genomics of an adaptive trait in <i>Senecio pinnatifolius</i> |
| 96 | Roda, Federico ; Ortiz_Barrientos, Daniel |
| CH | Local and regional population genetic structure of the threatened channel darter in Ontario |
| 97 | Kidd, Anne ; Reid, Scott; Wilson, Chris |
| CH | Did the industrial revolution contribute to the evolution of bacterial mercuric reductase? |
| 98 | Poulain, Alexandre ; Aris-Brosou, Stéphane; Blais, Jules; Brazeau, Michelle; Stoeva, Magdalena |
| CH | Molecular genetic distance and reproductive compatibility in <i>Daphnia obtusa</i> |
| 99 | Spitze, Ken ; LeRiche, Kaitlynn; Crease, Teresa |

Ecology / evolution of disease

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| PF | When should a trophically and vertically transmitted parasite manipulate its intermediate host? The case of <i>Toxoplasma gondii</i> |
| 101 | Lélu, Maud ; Gilot-Fromont, Emmanuelle; Langlais, Michel; Poulle, Marie-Lazarine; Gandon, Sylvain |
| PF | Experimental evolution of adaptive phenotypic plasticity in a virus |
| 102 | Leggett, Helen ; Benmayor, Rebecca; Hodgson, Dave; Buckling, Angus |
| PF | What determines the overwintering success of an obligate pathogen? |
| 103 | Alanen, Riikka ; Laine, Anna-Liisa |
| PF | Molecular evolution of the WFDC locus in baboons |
| 104 | Sherr, Sela ; Boissinot, Stephane |
| PF | DNA uptake sequences in bacteria: mate choice or snack packaging? |
| 105 | Redfield, Rosie ; Mell, Josh |
| PF | Parasites, Pigeons and Papua: The challenge of filling in a phylogeny |
| 106 | Peters, Andrew ; Raidal, Shane |
| PF | Frequency and fitness consequences of host range mutations among the bacteriophage Phi6 |
| 107 | Lallos, Gregory ; Sun, Bruce; Jhun, Kevin; Dennehy, John J. |

Education

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| PF | From Lab to Class? – Expert interviews about teaching evolution in Germany |
| 108 | Weiss, Matthias; Dreesmann, Daniel |
| PF | Evolution in action in the classroom: the effects of digital evolution and bacterial selection experiments on student learning |
| 109 | Johnson, Wendy ; Lark, Amy; Mead, Louise; Smith, James; Pennock, Robert |
| PF | Evolution in action in the classroom: Teaching and learning about evolution and the nature of science with Avida-ED |
| 110 | Lark, Amy ; Johnson, Wendy; Mead, Louise; Smith, James; Pennock, Robert |
| PF | Use of Piazza, an on-line learning community, in large lecture courses to support student learning and in-class engagement |
| 111 | Spencer, Chrissy |
| PF | Understanding Evolution Evolves: A web-based resource for teaching evolution |
| 112 | Scotchmoor, Judy; Thanukos, Anastasia |
| PF | Spicing up evolution outreach with SALSA! ("Seeing and Learning Science Afterschool") |
| 113 | Rubio de Casas, Rafael; Cohn, Sarah; Weintraub, Jory |
| PF | Teaching evolution to the wary |
| 114 | McFarlane, Keri ; Looy, Heather; Wood, John |
| PF | Integrative case studies in evolution education |
| 115 | White, Peter ; Heidemann, Merle; Smith, Jim |

Evolutionary ecology

- PF 116 Heritability and response to selection of brood sex ratio in the marine copepod *Tigriopus californicus*
Richardson, Jean ML; Alexander, Heather; Anholt, Bradley R.
- PF 117 Whole genome duplication and niche differentiation in plants: a general rule or species specific
Glennon, Kelsey L.; Ritchie, Mark E.; Segraves, Kari A.
- PF 118 The Beak of the Pinch: Consequences of adaptive radiation for ectoparasite control?
Villa, Scott M.; Koop, Jennifer A. H.; Proctor, Heather C.; DiBlasi, Emily; Clayton, Dale
- PF 119 Hybridization of Southern Hemisphere blue whale subspecies and a sympatric area off Antarctica: impacts of whaling or climate change?
Attard, Catherine; Beheregaray, Luciano; **Moller, Luciana**
- PF 120 Deciphering the trophic structures of 380 million-year-old fish communities
Chevrainais, Marion; Cloutier, Richard

Evolutionary theory

- PF 121 Sexual antagonism and meiotic drive
Patten, Manus
- PF 122 Irregular meiosis and genomic incompatibility in a hybrid cross of *Cryptococcus neoformans*
Vogan, Aaron
- PF 123 A family of homology concepts based on compound developmental causality
Baum, David
- PF 124 A meta-analytic approach for testing evolutionary hypotheses of acquired resistance in metastatic cancer
Bhardwaj, Kalpana; Findlay, C. Scott
- PF 125 Multilevel selection and kin selection: the relationship between the contextual analysis and the direct fitness approach
Goodnight, Charles
- PF 126 Haplotype signatures of negative selection
Ortega Del Vecchio, Diego; Novembre, John
- PF 127 Selection against interfering interactions as a driver of regulatory architecture
Morales, Christopher; Rest, Joshua
- PF 128 Male-haploid species do not support the Red Queen
Kidner, Jonathan; Moritz, Robin A.
- PF 129 Immune response in mite-damselfly systems: Is resistance futile?
Nagel, Laura; Day, Troy; Forbes, Mark
- PF 130 Mutualism as a public good: How between-species cooperation can emerge from within-species cooperation
Dinnage, Russell; Simonsen, Anna K.
- PF 131 Social legacy and its effect on genome-wide patterns of human genetic variation
King, Leandra; Wakeley, John

Genomics

- PF 132 Transcriptome characterization of the parasite *Polypodium hydriforme* (Phylum Cnidaria)
Chang, E. Sally; Shcheglovitova, Mariya; Cartwright, Paulyn
- PF 133 Is the X chromosome a master regulator of sex-biased gene expression?
Dean, Rebecca; Friberg, Urban
- PF 134 Population genetics of non-LTR retrotransposons in the threespine stickleback
Demopoulos, Ioannis; Boissinot, Stephane

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| PF 135 | Genome complexity reduction and re-sequencing of the poplar exome Holliday, Jason ; Zhou, Lecong |
| PF 136 | Biomonitoring 2.0: A high-throughput genomics approach for comprehensive biological assessment of environmental change Hajibabaei, Mehrdad; King, Ian ; Gibson, Joel |
| PF 137 | Whole genome duplications and their role in the evolution of vertebrate vision Lagman, David ; Abalo, Xesús; Sundström, Görel; Ocampo Daza, Daniel; Larhammar, Dan |
| PF 138 | Generating genome and transcriptome resources for an emerging model species - <i>Senecio pinnatifolius</i> Liu, Huanle ; Roda, Federico; Ortiz-Barrientos, Daniel |
| PF 139 | No equality between the sexes: expression from the Z chromosome differs between male and female elapid snakes O'Meally, Denis ; Patel, Hardip; Clark, Andrew G.; Waters, Paul |
| PF 140 | Sociogenomics of the parthenogenetic ant <i>Cerapachys biroi</i> Oxley, Peter ; Kronauer, Daniel |
| PF 141 | A test of cross-species exome sequencing in the rhesus macaque (<i>Macaca mulatta</i>) Bergey, Christina; Du, Hongli; Raam, Ryan L |
| PF 142 | The exploration of conifer genome structure via sequencing of bacterial artificial chromosomes Ritland, Kermit ; Farzaneh, Nima; Cullis, Claire; Yuen, Agnes; Tang, Michelle; Ritland, Carol; |
| PF 143 | Population genomics and phenotype-genotype association studies using RAD sequencing in the colour-polymorphic <i>Philaenus spumarius</i> (Insecta, Hemiptera) Seabra, Sofia G. ; Rodrigues, Ana S.; Silva, Sara E.; Marabuto, Eduardo; Pina-Martins, Francisco; Gharbi, Karim; Blaxter, Mark; Borges, Paulo A.V.; Quartau, Jose A.; Jiggins, Chris; Paulo, Octavio S. |
| PF 144 | Genomic signatures of selection in the human extended major histocompatibility complex Reynolds, Richard |
| PF 145 | Hybridization between neotropical species, <i>Vriesea simplex</i> and <i>Vriesea scalaris</i> (Bromeliaceae) Aoki-Gonçalves, Felipe ; Pinheiros, Fábio; Wendt, Tânia; Palma-Silva, Clarisse |
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| TB 321 | Mycoplasma-related endobacteria of arbuscular mycorrhizal fungi: distribution, molecular diversity, and evolutionary history Toomer, Kevin; Chen, Xiuhua; Naito, Mizue; Mondo, Stephen; Morton, Joseph; Pawlowska, Teresa |
| TB 322 | Adding insult to injury: Do male-killing <i>Wolbachia</i> also cause cytoplasmic incompatibility? Bonilla, Melvin ; Padua, Michael; Zeh, Jeanne |
| TB 323 | Co-existence of <i>Wolbachia</i> strains in African populations of <i>Drosophila simulans</i> : Mathematical model of infection dynamics Kolikant, Rena ; Boecklen, William J.; James, Avis C. |
| TB 324 | Co-existence of <i>Wolbachia</i> strains in African populations of <i>Drosophila simulans</i> : Pattern of cytoplasmic incompatibility Turnham, Rigney E. ; Boecklen, William J.; James, Avis C. |
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| TB 328 | Phylogenomic resolution of Paleozoic divergences in harvestmen (Arachnida, Opiliones) via analysis of next-generation transcriptome data Hedin, Marshal ; Starrett, James; Akhter, Sajia; Schonhofer, Axel; Shultz, JW |
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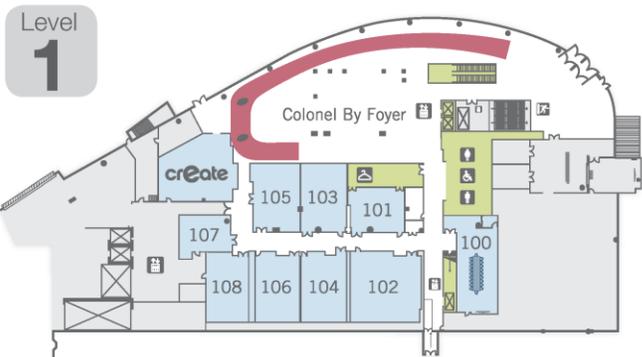
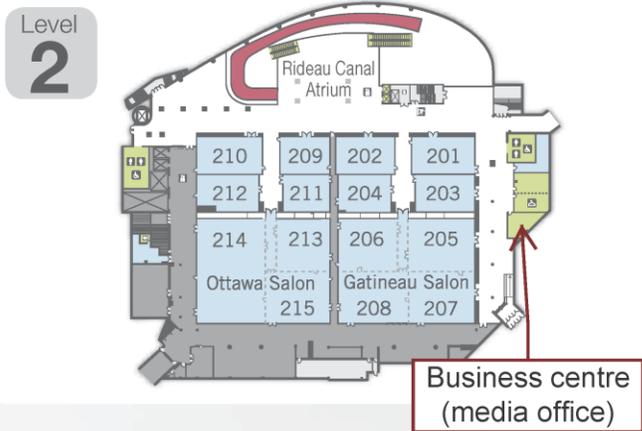
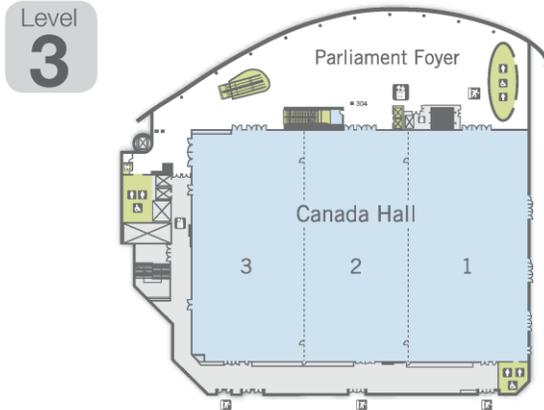
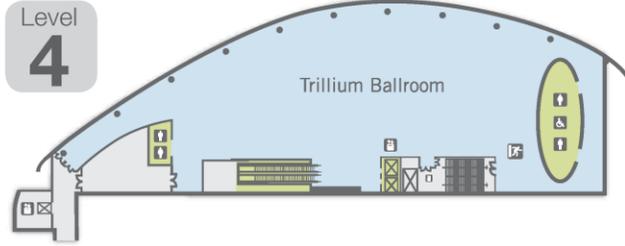
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Arsenic, social media, and the origin of life

design by
Rob Fur

Sunday
July 8th
7:30 pm

Canada
Hall 2-3

Ottawa
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A public lecture by:
Dr. Rosie Redfield
University of British Columbia
Hosted by the Canadian Society for Ecology & Evolution
with the support of the University of Ottawa
<http://rresearch.blogspot.com>

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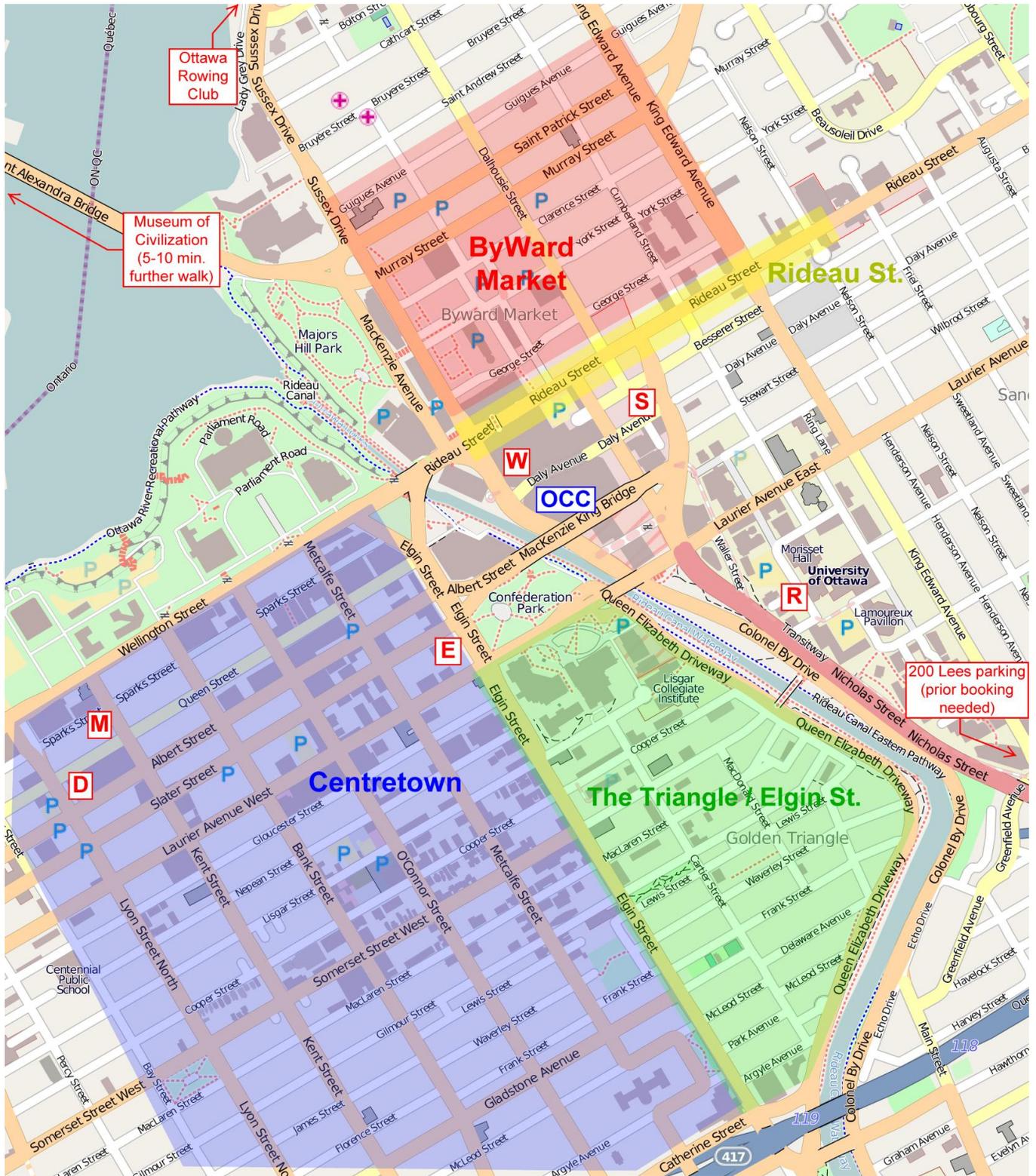
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