



EVOLUTION 93

**Fourth Congress
of the**

**European Society for
Evolutionary Biology**

**Montpellier (France)
August 22-28, 1993**

**Université Montpellier II
(Sciences et techniques du Languedoc)**



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The Organizing Committee acknowledges the help of:

American Society of Parasitologists

Société Française pour l'Etude du Comportement Animal

Villes de Juvignac et de Montpellier

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Département Biologie Evolution Environnement
(UM II, Montpellier)

Boehringer-Mannheim France

Timetable and Conference Rooms*

* see on back cover

A B M N Y Z

Monday 23	Amphithéâtre Dumontet : Plenary lecture						8:30
	27	23	8	15	28	10	9:30
	23	1	X			29	10:00
	F					O	12:00
Tuesday 24	Amphithéâtre Dumontet : Plenary lecture						8:30
	19	1	9	17	21	29	9:30
		22		5		24	10:00
					4		12:00
		M				E	14:00
Wednesday 25	Amphithéâtre Dumontet : Plenary lecture						8:30
	11	22	12	5	3	17	9:30
FREE TIME and EXCURSIONS							10:00
Thursday 26	Amphithéâtre Dumontet : Plenary lecture						8:30
	11		12				9:30
	16	31	14	2	18	20	10:00
							12:00
	B						14:00
Friday 27	Amphithéâtre Dumontet : Plenary lecture						8:30
	16	30	13	7	26	25	9:30
	6						10:00

List of Symposia

1. Mathematics and evolution
 2. Chromosomes and evolution
 3. Shifting balance
 4. Ancient DNA and the evolution of genes
 5. Evolutionary biology of birds
 6. Physiological mechanisms underlying phenotypic plasticity and their selective consequences
 7. Processus of extinctions and crisis
 8. Molecular phylogenies
 9. Paleobiology and evolution of early Cenozoic mammals: a symposium in honor of Donald E. Russell
 10. Quantitative genetics in evolution
 11. Comparative evolution in host-parasite systems (co-speciation, host switching, evolutionary rates)
 12. Sexual selection
 13. Non-Mendelian inheritance
 14. Geographic variation
 15. Reproductive systems
 16. Behavioral ecology
 17. Units of selection and the origin of evolutionary novelties
 18. Heterochrony in evolution
 19. Hybrid zones
 20. Endosymbiosis or endocytobiology
 21. The population biology of *Drosophila*
 22. Evolutionary biology of marine organisms
 23. Tropical biology
 24. Evolutionary biology of trees and forests
 25. Why sex?
 26. Evolution and ethics revisited
 27. The use of morphological distance in the study of evolution
 28. Population and evolutionary biology of microbes
 29. Genetic structures
 30. Population structure of parasitic Protozoa and Fungi: medical and epidemiological implications
 31. Advances in molecular systematics (2nd meeting of the International Society for Biochemical Systematics)
- F. Film: "Tropical forest of Guyana: regeneration and biodiversity"
- M. European Master's Degree of Biosystematics (business meeting)
- O. Meeting of E.S.E.B. Officers
- C. Meeting of E.S.E.B. Council
- E. Meeting of E.S.E.B. Editorial Board
- B. E.S.E.B. Business + Society meeting

Monday 23, August

1. Mathematics and evolution (1)
8. Molecular phylogenies
10. Quantitative genetics in evolution
15. Reproductive systems

23. Tropical biology
27. The use of morphological distance in the study of evolution
28. Population and evolutionary biology of microbes
29. Genetic structures (1)

A	B	M	N	Y	Z	
8:30	Amphithéâtre DUMONTET					8:30
Graham BELL: Plenary lecture.						
9:30						9:30
C O F F E E B R E A K						
10:00						10:00
10:15						10:15
10:30						10:30
10:45						10:45
11:00						11:00
11:15						11:15
11:30						11:30
11:45						11:45
12:00						12:00
S y m p . 2 7 : M o r p h o l o g i c a l d i s t a n c e						
Introduction		Introduction		Introduction		
F.L. BOOKSTEIN		C. TARDY		B. LEVIN		
		M. COLYN		J. MITTLER		
Discussion						
R. REYMENT						
S. REIG		M.-C. ANSTETT et al.		R. KORONA		
Discussion		Discussion		Poster presentation		
S y m p . 2 3 : T r o p i c a l b i o l o g y						
S y m p . 8 : M o l e c u l a r p h y l o g e n e s						
		W.-H. LI & A. ZHARKIKH		J. HELLER		
		H. PHILIPPE		S. LAHAV-GINOTT		
		R. DE WACHTER		X. VEKEMANS & M. SLATKIN		
		Short poster presentations		B. DOMMÉE		
				D. MANICACCI & D. COUVET		
				L. SVENSSON		
S y m p . 1 5 : R e p r o d u c t i v e s y s t e m s						
S y m p . 2 8 : B i o l o g y o f m i c r o b e s						
S y m p . 1 0 : Q u a n t i t a t i v e g e n e t i c s						
N. BARTON						
C. CHEVALET						
K. KEIGHTLEY & A. CABALLERO						
M. GILLOIS						
L U N C H						
13:30						13:30

14:00	14:00	Symp. 27: Morphological distance	M. COATI et al. J.C. AUFFRAY et al. H. VEIRS et al.	Symp. 1: Mathematics & evolution	L. PELITI	Symp. 8: Molecular phylogenies	J.M. HANCKOCK	Symp. 15: Reproductive systems	M. MACNAIR & S.E. SMITH C. DAMGAARD et al. T. HAUSER & V. LOESCHKE B. CHARLESWORTH et al. O. SAVOLAINEN & K. KARKKAINEN M. LOEW & T. STADLER	Symp. 28: Biology of microbes	M. TIBAYRENC	Symp. 10: Quantitative genetics	D. ROFF F. PULIDO et al. K. DAWSON G. DE JONG J. MERILA F. HOSPITAL C. PAOLETTI et al. L. ZHIVOTOVSKY	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00		
														C O F F E E B R E A K									
16:30	16:30	Symp. 23: Tropical biology	P. BLANC C. JULLIOT S.H. McKAMEY J. KOELLA	Symp. 1: Mathematics & evolution	LIBERMAN M. FELDMAN G. MESZENA K. REINHOLD M. NORDBORG V. PASSEKOV	Symp. 8: Molecular phylogenies	J. BEINTEMA D. GRAUR W.P. LUCKETT & J.L. HARTENBERGER K. USDIN et al. F. CATZEFLIS et al.	Symp. 15: Reproductive systems	B. BAUR C. DOUMS et al. J. AGREN & L. ERICSON H. KORPELAINEN J. McCabe V. SCALI et al.	Symp. 28: Biology of microbes	D. TONKYN & N. MOORE R. ANTIA & M. NOWAK T.E. DOLAN & R.B. DOLAN General discussion	Symp. 29: Genetic structure	J. DALLAG et al. E. LINDERS et al. D. HECKEL	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30		
														D I N N E R									
20:30	20:30	Symp. 23	Film: "Tropical forest of Guyana: regeneration and biodiversity" Discussion											20:30									
21:30	21:30													21:30									
22:30	22:30													22:30									

Tuesday 24, August

1. Mathematics and evolution (2)
4. Ancient DNA and the evolution of genes
5. Evolutionary biology of birds (1)
9. Paleobiology and evolution of early Cenozoic mammals: a symposium in honor of Donald E. Russell
17. Units of selection and the origin of evolutionary novelties (1)
19. Hybrid zones
21. The population biology of *Drosophila*
22. Evolutionary biology of marine organisms (1)
24. Evolutionary biology of trees and forests
29. Genetic structures (2)

A	B	M	N	Y	Z
Amphithéâtre DUMONTET					
Philip D. GINGERICH : Microevolution and macroevolution from an evolutionary rate perspective.					
C O F F E E B R E A K					
J.W. ARNTZEN	J. KOZLOWSKI et al.	Introduction	Introduction	J.G. SEVENSTER & J.M. VAN ALPHEN	S. SHUSTER & P. SERVICE
P. BOURSOT et al.	V.N. RAZZHEVAIKIN	G. STORCH	E. SZATHMARY	M. SANTOS	M. BROOKES & R. BUTLIN
M. ARNOLD	M.R. MEHANDJIEV	J. FRANZEN	E. JABLONKA	S. CAVICCHI et al.	P. SEPPA
D. HOWARD	D. TONKYN	P. LUCKETT		P. CAPY & J. DAVID	A. ESTOUP et al.
J. SITES et al.	Poster session	P. BUTLER	M.D. LAUBICHLER	D. JOLY & R.S. SINGH	D. FORCIOLI et al.
		L. KORDOS	Open discussion	Poster session	Poster session
		M. GODINOT et al.			
LUNCH					

11:26

14:00	J. MALLET	Symp. 19: Hybrid zones	R. VRIJENHOEK	Symp. 8: Early Cenozoic mammals	E. GHEERBRANT	Symp. 5: Biology of birds	R.V. ALATALO	Symp. 21: Biology of <i>Drosophila</i>	M. VEUILLE et al.	Symp. 24: Trees and forests	G. MÜLLER-STARCK	14:00
14:15					D. KRAUSE		M.A. DU PLESSIS		T. YAMAZAKI et al.		M.E. MALVOLTI et al.	14:15
14:30	D. SHAW		D. JOLLIVET & D. DESBRUYERES		M. DAWSON		C.M. LESSELLS		E. HEIKKINEN et al.		R.M. BATEMAN & W.A. DIMICHELE	14:30
14:45	R. BUTLIN & R. NEEMS		N. KNOWLTON & L.A. WEIGT		T. MARTIN		J. MORENO		J.-M. DELPUECH et al.		B.K. EPPERSON	14:45
15:00			H.A. LESSIOS		M. VIANEY-LIAUD & J.-J. JAEGER		Poster session		Poster session		Y. LINHART	15:00
15:15	D. FAIRBAIRN				J. AGUSTI et al.						F. HALLÉ	15:15
15:30	J. SPENCE											15:30
15:45												15:45
16:00												16:00
C O F F E E B R E A K												
16:30	L. CRESPIN & P. BERREBI	Symp. 22: Marine organisms	J. JACKSON et al.	Symp. 9: Early Cenozoic mammals	C. ESTRAVIS	Symp. 5: Biology of birds	P.C. DIAS	Symp. 4: Ancient DNA	T.A. BROWN et al.	Symp. 24: Trees and forests	T. SPECK et al.	16:30
16:45	B. NÜRNBERGER et al.		S. PIERTNEY & G.A. CARVALHO		E. KORDIKOVA		L. GUSTAFSSON		D. CASANE et al.		G. MICHALOUD et al.	16:45
17:00	K.S. GALES		E. DE MATTHEIS et al.		J. HARTMAN		A.P. MOLLER				K. BAWA	17:00
17:15			P. DOHERTY et al.		J. HOOKER		E. PASZTOR & G. MESZENA				V. MOSBRUGGER	17:15
17:30	C. MACCALLUM et al.		S.R. PALUMBI & E.C. METZ		S. TING		J.M. TINBERGEN et al.				Posters and general discussion	17:30
17:45	M. CHERRY et al.				A. AVERIANOV		S. VERHULST					17:45
18:00	S. BAIRD				V.A. NESIN et al.							18:00
18:15												18:15
18:30												18:30
D I N N E R												
20:30	P. VAN DIJK et al.	Symp. 19	European Master of Bioystematics (business meeting)									20:30
21:00	R. RIBI & H. TRUB											21:00
21:30	F. FELBER et al.											21:30
22:00	A. SCHOLL et al.											22:00
22:30	C. LARGIADER et al.											22:30
	M. LOERTSCHER et al.											22:30

Wednesday 25, August

3. Shifting balance
 5. Evolutionary biology of birds (2)
 11. Comparative evolution in host-parasite systems (co-speciation, host switching, evolutionary rates) (1)
 12. Sexual selection (1)
 17. Units of selection and the origin of evolutionary novelties (2)
 22. Evolutionary biology of marine organisms (2)

A	B	M	N	Y	Z	
8:30	Amphithéâtre DUMONTET					8:30
Bruce R. LEVIN : Why parasites harm their hosts : Beyond the just so stories.						
9:30						9:30
C O F F E E B R E A K						
10:00	Sym. 11: Host-parasite systems		Sym. 12: Sexual selection		Symp. 5: Biology of birds	10:00
10:15	D. BROOKS & D. McLENNAN	J. HILBISH & R. WILHELM	Introduction C.J. NAGELKERKE		E. MORENO et al.	10:15
10:30	D.H. CLAYTON et al.	M. VALERO et al.	E. WAINBERG		J. BLONDEL et al.	10:30
10:45	O. VERNEAU et al.	F. CALDARA et al.	D. PARKER & M. NIKLASSON		A.J. HELBIG & P. BERTHOLD	10:45
11:00	M. VAN BAALEN	G.A. DURRHEIM et al.	S.W. SKINNER		M.M. LAMBRECHTS et al.	11:00
11:15	S.A. NADLER	E. ZOUIROS	L. SUNDSTRÖM		J. JOACHIM & J. LAUGA	11:15
11:30	M. CICHON	Concluding remarks		Poster session		11:30
11:45	G.J. KLASSEN	Sym. 22: Marine organisms		Sym. 3: Shifting Balance		11:45
12:00			Sym. 17: Units of selection		C.J. GOODNIGHT	12:00
LUNCH						
13:30			H.P.A. DOPAZO & P. ALBERCH		F. SCUDO	13:30

EXCURSIONS

1. Bouzigues—Lake of Thau	Oyster and Mussel Cultures—Cruise on the Lake Clams and Wine Degustation	14:00 – 19:00
2. Grotte des Demoiselles—Silk Museum	Caves—Silk Museum—Silk Selling	14:00 – 19:00
3. Grotte de Clamouse—St Guilhem du Désert	Caves—Medieval Cloister and City	14:00 – 19:00
4. La Lieude—Lake of Salagou—Mourèze Site	Paleontological Site (footprints and tracks of Permian mammalian Reptiles)	14:00 – 19:00
5. Bambouiserie (Anduze)	Bamboo Plantation—Pottery Selling	14:00 – 19:00
6. Nîmes: City, Arena	Roman Heritage in Nîmes City (Arena, Fountain, Square House...)	14:00 – 19:00
7. Avignon—City of the Popes—Avignon Bridge	Historical City of the Popes—Avignon Bridge	14:00 – 19:00
8. Château de Flaugergues—Wine Cellar	Castel of De Colbert—Wine Cellar	15:30 – 19:00
9. Sète—Mont St-Clair—Wine Cellar	City Harbour—Sea—Wine Cellar	14:00 – 19:00
10. Montpellier: City—Faculty of Medicine	Historical Downtown City Faculty of Medicine (XIIIth Century)	16:30 – 18:30

Thursday 26, August

2. Chromosomes and evolution
11. Comparative evolution in host-parasite systems (co-speciation, host switching, evolutionary rates) (2)
12. Sexual selection (2)
14. Geographic variation
16. Behavioral ecology (1)
18. Heterochrony in evolution
20. Endosymbiosis or endocytobiology
31. Advances in molecular systematics (2nd meeting of the International Society for Biochemical Systematics)

A	B	M	N	Y	Z
8:30	Amphithéâtre DUMONTET				8:30
Kenneth J. McNAMARA: Heterochrony — Evolution's missing link.					
9:30					9:30
COFFEE BREAK					
10:00					10:00
10:15	M. ROWELL-RAHIER	C. JEUNIAUX et al.	Introduction	V. MOSBRUGGER	Introduction
10:30	J. BARSIENE	G. STEINBRUCK	G. BERNARDI	D. KORN	P. NARDON & A.M. GRENIER
10:45	E. HOBERG	L. NIGRO & C. SIMON	C.A. REDI et al.	R. FEIST	Th. BRIGGE et al.
11:00	A. PAULAUSKAS	D. TAUTZ	Poster exhibition	R.R. SCHOCH	T. RIGAUD et al.
11:15	J.P. HUGOT et al.	S. COOPER et al.		S. SMIRNOV	K.L. MANGIN & W.D. HAMILTON
11:30	Roundtable:	J. HERMANS et al.		G.D. GUEX et al.	General discussion
11:45	"Current issues in parasite phylogenies"	M.D. WILSON et al.			
12:00		Poster session			12:00
13:30					13:30

LUNCH

EXPOSITIONS

14:00	B.J. ENS	J. GARDNER	Introduction W.U. BLANCKENHORN & J. FAIRBAIRN	S. WHITFIELD	K.J. McNAMARA	R. CERFF et al.	14:00
14:15		U. ARNASON			M.M. SMITH	H.E.A. SCHENK	14:15
14:30	J. McNAMARA	T.H. HSIAO et al.	P. BOUDRY et al.	L. HURST	M.J. RAVOSA		14:30
14:45		C. FERRIS et al.	E.S. ROYTERBERG	C. SCHLOTTERER & D. TAUTZ	P. LUCKETT	C. LOUIS	14:45
15:00	B. TABORSKY et al.	D.E. HOWLAND et al.	B.S. SIMONSEN et al.	V. VOLOBOUEV & B. DUTRILLAUX	H.J. KEENE	P. WREDE et al.	15:00
15:15		M. TIBAYRENC	F. VILLANI et al.	Discussion	M. ZELDITCH & F.L. BOOKSTEIN	M. SOLIGNAC et al.	15:15
15:30	F. ADRIAENSEN & A. DHONDT	J.R. POWELL					15:30
15:45		E.R. SCHMIDT					15:45
16:00							16:00
C O F F E E B R E A K							
16:30	S. CHOUDHURY & J.M. BLACK	T. HANKELN et al.	M. ALCOBENDAS & P. ALBERCH	K.S. RAI	B.T. SHEA	L. STEVENS	16:30
16:45		W. MAYER et al.	B. GILES	N. BARTON	A. MINELLI & G. FUSCO	R. GIORDIANO et al.	16:45
17:00	P. FORSLUND	A. WILMOTTE et al.	A. WESTERBERGH	M. VASSART et al.	M. SHISHKIN	B.C. CAMPBELL	17:00
17:15		R. ABBOTT	L. DE BRUYN et al.	G. GANEM	C.P. KLINGENBERG		17:15
17:30	F. CEZILLY	L. BACHMANN et al.	M. SCHEEPMACKER & S.P. MENKEN	Discussion	K. GIBSON	G. DAMIANI et al.	17:30
17:45		Poster session and general discussion			General discussion	General discussion	17:45
18:00	F. MAYER						18:00
18:15							18:15
18:30							18:30
D I N N E R							
20:30	General Meeting of the European Society for Evolutionary Biology	V. SBORDONI					20:30
21:30		Extraordinary General Meeting of the International Society for Biochemical Systematics					21:30
22:30							22:30

Friday 27, August

6. Physiological mechanisms underlying phenotypic plasticity and their selective consequences
7. Processus of extinctions and crisis
13. Non-Mendelian inheritance
16. Behavioral ecology (2)
25. Why sex ?
26. Evolution and ethics revisited
30. Population structure of parasitic Protozoa and Fungi : medical and epidemiological implications

A	B	M	N	Y	Z	
8:30	Amphithéâtre DUMONTET					8:30
John MAYNARD SMITH: Plenary lecture.						
9:30						9:30
C O F F E E B R E A K						
10:00						10:00
10:15						10:15
10:30	J. MAPPE & A. KAITALA	F.J. AYALA	R. STOUTHAMER	O.E. GAGGIOTTI	Introduction J.R. PECK	
10:45	G. SELLA	A. BURT et al.	C. SOUTY-GROSSET et al.	L. WITTING & L.R. GINZBURG	B.O. BENGTSOON J. MAYNARD SMITH	
11:00	G.J. FITZGERALD	C. PUJOL et al.	J.M.M. VAN DAMME et al.	J.-J. JAEGER	A. DE VISSER et al.	
11:15			B. GODELLE	J. AGUSTI et al.	M. DOEBELI	
11:30	S.M. SHUSTER	L.C. RANFORD- CARTWRIGHT et al.	A. POMIANKOWSKI & L. HURST		S.E. KELLEY	
11:45	Sym. 16: Behavioral ecology					11:45
12:00	Sym. 30: Protozoa & Fungi					12:00
LUNCH						
13:30						13:30

14:00	Symp. 6: Physiology & phenotypes	A. VAN NOORDWIJK	Symp. 30: Protozoa & Fungi	R. CIBULSKIS	Symp. 13: Non-Mendelian inheritance	A.C. JAMES E. SZATHMARY & J. MAYNARD SMITH M. NAUTA E. JABLONKA & M.J. LAMB A. BURT & R. TRIVERS	Symp. 7: Extinction & crisis	N. BARDET General discussion	Symp. 26: Evolution and ethics	R. GRANTHAM S.C. STEARNS D. GRAUR & M. GRAUR	Symp. 25: Why sex?	Round table with R. MICHOD, J. MAYNARD SMITH, G. BELL, S. STEARNS, B.O. BENGTTSSON, S. JAIN	14:00 14:15 14:30 14:45 15:00 15:15 15:30 15:45 16:00	
C O F F E E B R E A K														
16:30	Symp. 5: Physiology & phenotypes	J. TRAVIS & M. McMANUS R. NAGER R.A. KREBS & V. LOESCHKE F. ATHIAS-BINCHE Discussion												16:30 16:45 17:00 17:15 17:30 17:45 18:00 18:15 18:30 19:30 00:30
F A R E W E L L P A R T Y														

Social events and business meetings

Sunday 22, August

- 14:00-23:00 — Registration, room allocation in university dormitory.
20:30-24:00 — Welcome party.

Monday 23, August

- 20:30-21:30 — Film: "Tropical forest of Guyana: regeneration and biodiversity", conference room A.
20:30-21:30 — Meeting of E.S.E.B. Officers, room C.

Tuesday 24, August

- 12:00-13:30 — Meeting of E.S.E.B. Council, room C.
20:00-21:30 — Meeting of E.S.E.B. Editorial Board, room C.
20:30-21:30 — Open meeting to organize an European Master's Degree of Biosystematics, conference room B.

Wednesday 25, August

- 14:00-24:00 — Free time and excursions.

Thursday 26, August

- 20:30-22:30 — E.S.E.B. Business + Society meeting, conference room A.
20:30-22:30 — Extraordinary General Meeting of the International Society for Biochemical Systematics (open to non-members), conference room B.

Friday 27, August

- 18:30-00:30 — Farewell party at Juvignac.
20:30 — Congress adjourned.

Saturday 28, August

- 07:00-20:00 — Excursions and field trips.

Excursions and Field Trips

Registration and payment (in cash, French Francs) for all excursions at the Excursions Desk, on a first come, first served basis.

Note: Booking for Wednesday afternoon excursions will be closed at 14:00 Monday 23, August; booking for Saturday excursions will be closed at 14:00 Tuesday 24, August.

Saturday excursions

1. Camargue - Aigues Mortes - Tiki III	Ecology - National Park - Cruise - Medieval Harbour City	07:00 20:00
2. Aix Basin - (Baux de Provence)	Paleontological sites (Cretaceous-Tertiary Boundary) - Provençal City	07:00 20:00
3. Mount Aigoual - Arboretum	Botanical Garden - Touristic sites	07:00 19:00
4. Carcassonne - Abbaye de Valmagne	Cistercian Abbey - Medieval City - Gastronomy	08:00 19:00

PROGRAM OF SYMPOSIA

SYMPOSIUM 1:

MATHEMATICS AND EVOLUTION

Organized by Gérard WEISBUCH and Marc FELDMAN

Monday 23, August

First afternoon session: 14h-16h

- 14:00-14:30 — L. PELITI: Neutralist evolution.
14:30-15:00 — L. ZHIVATOVSKI: Mathematical models for quantitative characters.
15:00-15:15 — E. KISDI: Coexistence and coevolution promoted by environmental stochasticity.
15:15-15:30 — GOLDSTEIN: Variance weighted distances and phylogenies.
15:30-15:45 — V.M. KIRZHNER, A.B. KOROL and Y.I. RONIN: Dynamics of linkage disequilibrium under temporal environmental fluctuations. Two-locus selection.
15:45-16:00 — G. DUCHATEAU, G. WEISBUCH and L. PELITI: Emergence of mutualism — Application of a differential model to endosymbiosis.

Second afternoon session: 16h30-18h30

- 16:30-17:00 — LIBERMAN: Mathematical theory for recombination processes.
17:00-17:30 — M. FELDMAN: Optimisation and evolution.
17:30-17:45 — G. MESZENA: Evolutionary dynamics of species competing for n resources.
17:45-18:00 — K. REINHOLD: Sex-ratio selection with asymmetrical migration of the sexes can lead to an uneven sex-ratio.
18:00-18:15 — M. NORDBORG: Models of cytoplasmic sterility.
18:15-18:30 — V. PASSEKOV: On Fisher's fundamental theorem of natural selection for subdivided populations under weak viability selection.

Tuesday 24, August

Morning session: 10h-12h

- 10:00-10:15 — J. KOZLOWSKI and J. WEINER: Do interspecific allometries of physiological and life history traits result from body size optimization?
10:15-10:30 — V.N. RAZZHEVAIKIN: Evolutionary models of structured systems.
10:30-10:45 — M.R. MEHANDJIEV: Quantitative assessment of evolution as qualitative transformation in systems and subsystems.
10:45-11:00 — D. TONKYN: Optimization techniques for preserving genetic variability in endangered species.
10:45-11:00 — Poster session.

POSTERS:

- 01.001 — P. OLEJNICZAK, J. KOZLOWSKI, T. DEJONG and P. KLINKHAMER: Optimal allocation of resources in biennial plants: a numerical model.
01.002 — L.L. OVSYANNIKOV: Evolutionary optimal trajectory of organism development age of puberty onset and species life span as evolutionary optimized attributes.
01.003 — V.N. RAZZHEVAIKIN: The extremality of spectral characteristics in evolutionary models of structured systems.

- 01.004 – Y.I. RONIN, A.B. KOROL and V.M. KIRZHNER: Dynamics of the rec-system in variable environment. Haploid selection in cyclical two-state environment.
 01.005 – A. VASIN: Adaptation to variable environment and genetic heterogeneity (mathematical model).

SYMPOSIUM 2:

CHROMOSOMES AND EVOLUTION

Organized by Bengt O. BENGTTSSON and Janice BRITTON-DAVIDIAN

Thursday 26, August

Morning session: 10h–12h

- 10:00–10:10 — B.O. BENGTTSSON: Session introduction.
 10:10–10:40 — G. BERNARDI: Isochore and chromosome evolution in vertebrates.
 10:40–11:00 — C.A. REDI, S. GARAGNA, A. PICCINELLI, E. CAPANNA, G. VIALE and R. ALFANO: Satellite DNAs and telomeric sequences during Robertsonian fusion.
 11:00–12:00 — Poster exhibition.

First afternoon session: 14h–16h

- 14:00–14:30 — S. WHITFIELD: Evolution of the Y primate chromosome.
 14:30–15:00 — L. HURST: Mechanisms of meiotic drive and mechanisms of inter and intra-specific sterility.
 15:00–15:20 — C. SCHLÖTTERER and D. TAUTZ: Variability versus homogeneity — Molecular mechanisms for the evolution of ITS in *Drosophila melanogaster*.
 15:20–15:40 — V. VOLOBOUEV and B. DUTRILLAUX: Chromosome evolution and mutiple hybrid origin of parthenogenetic females in unisexual-bisexual *Lepidodactylus lugubris* complex (Reptilia, Gekkonidae).
 15:40–16:00 — Discussion.

Second afternoon session: 16h30–18h30

- 16:30–17:00 — K.S. RAI: Genome organization and evolution in mosquitoes.
 17:00–17:30 — N. BARTON: Theoretical problems of chromosomes evolution.
 17:30–17:50 — M. VASSART *et al.*: Chromosomal evolution in the genus *Gazella*.
 17:50–18:10 — G. GANEM: A behavioural study of Robertsonian populations in Scotland: hypothesis on the functioning of a Robertsonian hybrid zone.
 18:10–18:30 — Discussion.

POSTERS:

- 02.006 – J. BARSIENTE: Genotoxic damage of bio-accumulated environmental pollutants in water organism tissues.
 02.007 – M. BEJI: Chromosomal polymorphism in the genus *Arum*.
 02.008 – S. BOISSINOT, A. KATARI, K. SAID and P. BOURSOT: Origin and evolution of chromosomal races of the house mouse: mitochondrial DNA diversity and differentiation in two Robertsonian systems.
 02.009 – F. FEL and J. BRITTON-DAVIDIAN: Chromosomal introgression of a NOR marker in the hybrid zone between *Mus musculus musculus* and *Mus musculus domesticus* in Denmark.
 02.010 – S. GROZEVA: On karyotype of the primitive infraorder of Heteroptera-Dipsocoromorpha.
 02.011 – H. HOTZ, L. BERGER, T. UZZELL, H.G. TUNNER, P. BEERLI and G.D. GUERX: Sex determination, sex linkage, and two kinds of unisexuality among XX and XY

- genotypes in western Palearctic water frogs.
- 02.012 – H. HOTZ, T. UZZELL and L. BERGER: Evolutionarily conserved linkage groups in western Palearctic water frogs.
- 02.013 – V.G. KUZNETSOVA: Evolutionary mechanism of autosomal polyploidy in the bugs of the family Nabidae (Heteroptera, Insecta).
- 02.014 – P. MICHAÏLOVA: Translocations in the karyotype evolution of the family Chironomidae, Diptera.
- 02.015 – N. PETROVA: Evolution of karyotypes in the Diptera with reference to Chironomidae and Simuliidae.
- 02.016 – G. RAPPAZZO: A dispersed DNA family in grasshopper genome.
- 02.017 – K. SAID, P. BOURSOT and J. BRITTON-DAVIDIAN: Fertility estimates in the Tunisian all-acrocentric and Robertsonian populations of the house mouse and their chromosomal hybrids.
- 02.018 – F. SPIRITO, F. SAMPOGNA and M. RISSONI: Conditions for a stable differentiation at loci which cause prezygotic and zygotic reproductive isolation.
- 02.019 – A.T. TOKTOSUNOV: The effect of ecological shocks on the animals karyotype changes.
- 02.020 – E.V. VOLPI, F. PELLICCIA, V. LANZA and A. ROCCHI: Simple repetitive DNA sequences and sex chromosome differentiation in a crustacean.

SYMPOSIUM 3:

SHIFTING BALANCE

Organized by Michael J. WADE

Wednesday 25, August

Morning session: 10h–12h

- 10:00–10:25 — M.J. WADE: Wright's Shifting Balance theory using experimental populations of flour beetles, *Tribolium castaneum*.
- 10:25–10:50 — M. WHITLOCK: Extinctions, recolonization, and the Shifting Balance.
- 10:50–11:15 — W.E. BRADSHAW: Evolutionary independence of fitness traits in structured populations.
- 11:15–11:40 — J. MALLETT: Warningly coloured butterflies as a model for the Shifting Balance.
- 11:40–12:05 — C.J. GOODNIGHT: Experimental studies of small population size: implication for phase one of Wright's Shifting Balance theory.

SYMPOSIUM 4:

ANCIENT DNA AND THE EVOLUTION OF GENES

Organized by Catherine HANNI

Tuesday 24, August

Second afternoon session: 16h30–18h30

- 16:30–17:00 — T.A. BROWN, R.G. ALLABY, R. SALLARES and M.K. JONES: Biomolecular archaeology of wheat.
- 17:00–17:30 — D. CASANE, C. HARDY, J.-D. VIGNE, N. DENNEBOUY, C. MOUNOLOU and M. MONNEROT: Origin of European rabbit (*Oryctolagus cuniculus*) in the Mediterranean: zooarchaeology and ancient DNA examination.

- 17:30–18:00 — D.A. MERRIWETHER, F. ROTHHAMMER and R.E. FERRELL: Mitochondrial DNA variation in Amerindians: ancient and contemporary RFLP data support the four founding lineages hypothesis for the New World.
- 18:00–18:30 — Poster presentation and conclusion.

POSTERS:

- 04.021 — R. FANI, P. LIO, A. GRIFONI and M. BAZZICALUPO: Evolution of the histidine biosynthetic genes in prokaryotes: role of gene elongation, gene duplication and gene fusion.
- 04.022 — D. LABUDA, ZIETKIEWIEW and J. JURKA: Ubiquitous mammalian interspersed repeats (MIRs) are molecular fossils from the Cretaceous period.
- 04.023 — W.J. MILLER, S. HAGEMANN and W. PINSKER: Molecular transition of a former transposable P element to a new stationary host gene in *Drosophila guanche*.

SYMPOSIUM 5:

EVOLUTIONARY BIOLOGY OF BIRDS

Organized by Lars GUSTAFSSON and Jacques BLONDEL

Tuesday 24, August

First afternoon session: 14h–16h

- 14:00–14:05 — J. BLONDEL: Introduction.
- 14:05–14:25 — R.V. ALATALO: Evolution of lekking in birds.
- 14:25–14:45 — M.A. DU PLESSIS: Dispersal in group-territorial societies: balancing conflict and cooperation.
- 14:45–15:05 — C.M. LESSELLS: Are unrelated European bee-eater helpers confidence tricksters?
- 15:05–15:25 — J. MORENO: The function of stone carrying in the black wheatear.
- 15:25–16:00 — Poster session.

Second afternoon session: 16h30–18h30

- 16:30–16:50 — P.C. DIAS: Are blue tits always adapted to their habitats?
- 16:50–17:10 — L. GUSTAFSSON: Bad health and darwinian fitness in the collared flycatcher.
- 17:10–17:30 — A.P. MOLLER: Genotype-environment interactions of secondary sexual characters: importance for models of sexual selection.
- 17:30–17:50 — E. PASZTOR and G. MESZENA: Measurement of dynamics trade-offs in heterogeneous environments.
- 17:50–18:10 — J.M. TINBERGEN, S. DAAN and S. VERHULST: Multiple breeding and clutch size in a seasonal environment.
- 18:10–18:30 — S. VERHULST: Gene flow as constraint in the evolution of clutch size.

Wednesday 25, August

Morning session: 10h–12h

- 10:00–10:20 — E. MORENO, L.M. CARRASCAL and A. VALIDO: Morphological evolution and changes in foraging behaviour of island and mainland populations of blue tit, *Parus caeruleus*. A test of convergence and ecomorphological hypotheses.
- 10:20–10:40 — J. BLONDEL, F. CATZEFLIS and P. PERRET: From biogeography to molecules in Mediterranean warblers (Aves, *Sylvia*).
- 10:40–11:00 — A.J. HELBIG and P. BERTHOLD: Genetic basis and evolutionary change of migratory directions in a European passerine migrant (Aves: *Sylvia atricapilla*).
- 11:00–11:20 — M.M. LAMBRECHTS, P. PERRET and J. BLONDEL: Genetic differences in reproductive

- photoresponsiveness between mainland and island mediterranean blue tits.
 11:20–11:40 — J. JOACHIM and J. LAUGA: Demes in habitat patches, the chaffinch *Fringilla coelebs* example in South Western France.
 11:40–11:55 — Poster session.
 11:55–12:00 — L. GUSTAFSSON: Conclusion.

POSTERS:

- 05.024 — T. AHO, A. JÄNTTI, M. KUITUNEN and J. SUHONEN: Optimal clutch size in treecreepers — Availability of food is the limiting factor.
 05.025 — I.R. BEME: Divergence of ontogenesis of acoustic signals in twin-species in passeriformes.
 05.026 — P. CHYLARECKI: Decomposing selection of avian egg size.
 05.027 — C. DEERENBERG: Which mechanisms may be involved in the trade-off between parental effort and future reproduction in zebra finches?
 05.028 — P.J. DE LA CRUZ-CARDIEL, J.-A. ELENA-ROSSELLO and S.J. PERIS: Biochemical polymorphism and interspecific relationships in two starling species (*Sturnus vulgaris* and *S. unicolor*).
 05.029 — P. HORAK: Age related differences in seasonal pattern of clutch size in great tits (*Parus major*): proximate vs. ultimate explanation.
 05.030 — A. LYNCH: Evidence for the neutrality of songs (but not calls) in chaffinches from transfer experiments.
 05.031 — R. PRZYBYLO: Influence of sexual size dimorphism and breeding time on offspring diet and reproductive success in great tit (*Parus major*).
 05.032 — J.C. SENAR, J.L. COPETE and M. CAMERINO: Cost and benefits of delayed versus advanced plumage maturation in the siskin (*Carduelis spinus*): an analysis of aggressive interactions and body condition.
 05.033 — O.N. TOKARSKAYA and V.V. KALNIN: Population study of the endangered crane species by DNA fingerprinting: computer analysis revealed new dimensions.
 05.034 — P. ZIELINSKI: Nestling growth and feeding frequency in the swallow.

SYMPOSIUM 6:

PHYSIOLOGICAL MECHANISMS UNDERLYING PHENOTYPIC PLASTICITY AND THEIR SELECTIVE CONSEQUENCES

Organized by Arie VAN NOORDWIJK and Yvon LE MAHO

Friday 27, August

First afternoon session: 14h–16h

- 14:00–14:15 — A. VAN NOORDWIJK: Introduction to the symposium.
 14:15–15:00 — Y. LE MAHO: How energetic constraints determine the breeding success of Antarctic penguins.
 15:00–15:20 — D.A. ROFF: The evolution of phenotypic plasticity in dimorphic traits: bridging the gap between physiology and quantitative genetics.
 15:20–15:40 — R.E. KOOIJ and P.M. BRAKEFIELD: Critical periods for wing patterns induction in the tropical butterfly *Bicyclus anynana*.
 15:40–16:00 — L. KELLER: To live or to die: a single gene interacts with the social environment to determine the fate of queens in an ant species.

Second afternoon session: 16h30–18h30

- 16:30–17:15 — J. TRAVIS and M. McMANUS: Temperature-induced resource allocation: plasticity in life history, biomass, and energy storage in the sailfin molly, *Poecilia latipinna*.

- 17:15-17:35 — R. NAGER: Energetic aspects of the timing of reproduction in the great tit.
 17:35-17:55 — R.A. KREBS and V. LOESCHKE: Genetic variation for tolerance to and fitness loss following short-term exposure to thermal stress in *D. melanogaster*.
 17:55-18:15 — F. ATHIAS-BINCHE: Phenotypic plasticity, polymorphisms and evolutionary consequences in phoretic mites colonizing variable environments.
 18:15-18:30 — Discussion.

POSTERS:

- 06.035 — T.J. KAWECKI: Mutation accumulation and the evolutionary cost of being a generalist.
 06.036 — N. PANCHENKO, I. FILIMONOV, V. ZOTOV: Phenotypical transformation of cells and its modulation in the evolution.
 06.037 — T. PRUS and M. PRUS: Metabolic response to altered medium in phenotypes of *Tribolium castaneum* and *T. confusum*.
 06.038 — T. SALL and P. PETTERSSON: A model of photosynthetic acclimation.
 06.039 — G. SORCI and J. CLOBERT: Environmental maternal effects on sprint speed in the common lizard.

SYMPOSIUM 7:

PROCESSUS OF EXTINCTIONS AND CRISIS

Organized by Jean-Jacques JAEGER

Friday 27, August

Morning session: 10h-12h

- 10:00-10:30 — O.E. GAGGIOTTI: Maintenance of genetic variability in sink populations.
 10:30-11:00 — L. WITTING and L.R. GINZBURG: Evolution towards extinction: density-induced extinctions set limits to the Malthusian parameter.
 11:00-11:30 — J.-J. JAEGER: Constant extinction rate at the species level in fossil Neogene Southwest European rodents (Mammalia, Rodentia).
 11:30-12:00 — J. AGUSTI, L. CABRERA, M. GARCES, S. MOYA-SOLA and J.M. PARES: The late Vallesian crisis and its effects on the Eurasian mammalian faunas.

First afternoon session: 14h-16h

- 14:00-14:30 — N. BARDET: Mass extinctions among Mesozoic marine reptiles.
 14:30-16:00 — General discussion.

SYMPOSIUM 8:

MOLECULAR PHYLOGENIES

Organized by Jaap BEINTEMA and André ADOUTTE

Monday 23, August

Subsymposium I: Methodological aspects and ribosomal RNA phylogeny

Morning session: 10h-12h

- 10:00-10:30 — W.-H. LI and A. ZHARKIKH: What is the bootstrap method in phylogenetic analysis?

- 10:30–11:00 — H. PHILIPPE: The reliability of molecular phylogenies and a critical analysis of homoplasy: a study based on real data set from gnathostomes.
 • Satellite poster: J.-P. FERAL *et al.* (08.040)
- 11:00–11:30 — R. DE WACHTER: Calibration of nucleotide variability in ribosomal RNA sequence alignments and application to evolutionary tree construction.
 • Satellite posters: Y. VAN DE PEER and R. DE WACHTER (08.041)
 B. WINNEPENNINCKX *et al.* (08.042)
- 11:30–12:00 — 20 short poster presentations.

First afternoon session: 14h–16h

- 14:00–14:30 — J.M. HANCOCK: Repetitive (simple) sequences in ribosomal RNAs and other genes and their consequences for phylogenetic reconstruction.
- 14:30–15:00 — J.L. OLSEN, W.T. STAM, S. BERGER and D. MENDEL: 18S evolution in the Dasycladales (Chlorophyta) — Modern living fossils.
 • Satellite poster: W.T. STAM *et al.* (08.043)
- 15:00–15:20 — T.H. HSIAO: Phylogeny of chrysomelid beetles inferred from mitochondrial rRNA gene sequences.
- 15:20–15:40 — A. CACCONE, M.C. MILINKOVITCH, V. SBORDONI and J.R. POWELL: Molecular biogeography: calibrating mitochondrial r-DNA evolutionary rates in mountain newts (*Euproctus*) using the Corsica/Sardinia microplate disjunction.
- 15:40–16:00 — 10 short poster presentations.

Subsymposium II: Molecular evolution of rodents

Second afternoon session: 16h30–18h30

- 16:30–16:45 — J. BEINTEMA: Molecular evolution of hystricognaths and other rodent pancreatic ribonucleases.
- 16:45–17:15 — D. GRAUR: Partial super- and sub-ordinal molecular phylogenies of subclass Eutheria: the paraphyletic status of Rodentia and Artiodactyla and the phylogenetic position of the Cetacea.
- 17:15–17:45 — W.P. LUCKETT and J.-L. HARTENBERGER: Rodent monophyly: facts and fallacies.
- 17:45–18:15 — K. USDIN, F. CATZEFLIS and A.V. FURANO: L1 DNA amplification events provide a "fossil" record of the phylogenetic history of the Murinae.
- 18:15–18:30 — F. CATZEFLIS, P. CHEVRET and C. HANNI: Molecular versus traditional systematics in muroid rodents: towards a reasonable phylogeny?
 • Satellite poster: G. VÉRON and F. CATZEFLIS (08.044)

POSTERS:

Satellite posters:

- 08.040 — J.-P. FERAL, H. PHILIPPE, D. DESBRUYERES, E. DERELLE and A. CHENUIL: 28S ribosomal RNA inferred phylogeny of alvinellid from the hydrothermal vents: the fastest evolving polychaetes?
- 08.041 — Y. VAN DE PEER and R. DE WACHTER: Ribosomal RNA and the major bacterial taxa.
- 08.042 — B. WINNEPENNINCKX, T. BACKELJAU and R. DE WACHTER: Metazoan phylogeny: a reanalysis of published partial 18S rRNA sequences.
- 08.043 — W.T. STAM, J.L. OLSEN, F.T. BAKKER, W.H.C.F. KOOISTRA and M.J.H. VAN OPPEN: Genes and spacers in the nuclear rDNA cistron of green algae — Fast, faster, fastest or unalignable?
- 08.044 — G. VÉRON and F. CATZEFLIS: Phylogenetic relationships of the endemic Malagasy carnivore *Cryptoprocta ferox* (Aeluroidea) based on DNA/DNA hybridization experiments.

rRNA studies:

- 08.045 — S. CARRANZA, J. BAGUNA and M. RIUTORT: Phylogenetic relationships among different orders of the class Turbellaria (Platyhelminthes) based on 18S rDNA sequences.
- 08.046 — R. FANI, D. DI SERIO, G. DAMIANI, C. BANDI, C. VERNESI and GRIFONI: Phylogeny of the genus *Azospirillum* based on 16S DNA sequences.

08.047 – C.T. HSIAO, N.J. CHATTERTON, K.H. ASAY, K.B. JENSEN and J.A. MATOS: Phylogenetic relationships of the monogenomic species of the wheat tribe, Triticeae, inferred from sequences of the internal transcribed spacer region in nuclear ribosomal DNA.

08.048 – B. LAFAY, N. BOURY-ESNAULT, J. VACELET and R. CHRISTEN: An analysis of 28S ribosomal RNA sequences suggests early radiations within the phylum Porifera.

Other posters:

08.049 – L. BARUFFI, A.R. MALACRIDA, C.R. GUGLIELMINO, G. DAMIANI, C. BANDI and G. GASPERI: Genetic divergence within and between populations of *Ceratitis capita* Wied, evaluated by MLEE and RAPD approaches.

08.050 – P. BEERLI: Genic divergence rates and calibration of an averaged protein clock in water frogs of the Aegean region.

08.051 – L. EXCOFFIER and P.E. SMOUSE: How to make molecular phylogenies with the best geographical consistency?

08.052 – F. FRATI *et al.*: Molecular phylogeny within the genus *Orchosella* (Insecta: Collembola): comparison between allozyme and DNA sequence data.

08.053 – L. FUMAGALLI and P. TABERLET: Length and sequence variations in the mitochondrial control region of Soricidae (Mammalia, Insectivora).

08.054 – E.H. HARLEY and D. OHLAND: Molecular systematics of cetaceans using mitochondrial DNA.

08.055 – E. JAKO: A method of sequence analysis using boolean algebraic coding for representation the four-unit DNA/RNA and 20-unit proteins.

08.056 – S. KOCABAS and I. TOGAN: Electrophoretic analysis of genetic variability in the house fly (*Musca domestica* L.).

08.057 – C. LEDJE and U. ARNASON: Which terrestrial carnivores are closest related to the seals? — A study based on two different kinds of DNA.

08.058 – M.-F. LIAUD, C. VALENTIN, W. MARTIN, F.-Y. BOUGET, B. LORAREG and R. CERFF: The evolutionary origin of red Algae as deduced from the nuclear genes encoding cytosolic and chloroplast glyceraldehyde-3-phosphate dehydrogenases from *Chondrus crispus*.

08.059 – G. LOZOVAYA, Z. MASINOVSKY, A.A. SIVASH and N.G. KHOLODNI: Trends of molecular evolution of the porphyrin-containing systems.

08.060 – J. MARIAUX and M.J. BRAUN: Molecular phylogeny of the Caprimulgiformes.

08.061 – H.D. MARSHALL and A.J. BAKER: The molecular phylogenetic relationships among the subspecies of the common chaffinch (*Fringilla coelebs*) in the Atlantic Islands, Iberia, and Northern Africa: a re-examination of the colonization history of this species.

08.062 – G. MEGHLAOU and M. VEUILLE: Rate of selective molecular change at the FBP2 locus in *Drosophila*.

08.063 – C. MONTGELARD, J.-P. LABBÉ, J. SRI WIDADA and Y. BENYAMIN: Actin-like protein in prokaryotic Cyanobacteria.

08.064 – M. NAVAJAS, J. GUTIERREZ, D. FOURNIER and P. BOURSOT: Molecular phylogeny and morphological evolution in phytophagous mites (Acari: Tetranychidae).

08.065 – B.W. PEDERSEN: Bumblebees and cuckoo bumblebees, a phylogenetic analysis based on mtDNA.

08.066 – F. PRUSER, A. DURING, M. MARCINIAK and D. MOSSAKOWSKI: Conflicts in phylogenetic relationships and dispersal history of Carabinae.

08.067 – A. REYES *et al.*: MtDNA variation in two Spanish natural populations of *Ceratitis capitata*.

08.068 – M. RUEDI: Do South-East Asian shrews track sea level variations? A Brooks parsimony analysis of genetic data.

08.069 – V. SAVOLAINEN, J.F. MANEN and R. SPICHIGER: Molecular phylogeny of the Celastrales order based on rbcL 5' flanking chloroplast sequences.

08.070 – D. STEWART and A.J. BAKER: Evolution and phylogenetic implications of mtDNA D-Loop sequence in shrews in the subgenus *Otisorex* (*Sorex*: Soricidae; Insectivora).

08.071 – M. UJHELYI: Hominoid phylogeny based upon mitochondrial tRNA analysis.

08.072 – F. VANLERBERGHE-MASUTTI: Phylogenetic relationships of parasitic wasps of the genus *Trichogramma* (Hymenoptera) deduced from mtDNA RFLP and RAPD markers.

- 08.073 – P. VERDYCK *et al.*: Molecular phylogeny of the *Phyllotreta cruciferae* complex of sibling species (Coleoptera: Chrysomelidae).

SYMPOSIUM 9:

PALEOBIOLOGY AND EVOLUTION OF EARLY CENOZOIC MAMMALS ; A symposium in honor of D.E RUSSELL

Organized by Philip D. GINGERICH and Marc GODINOT

Tuesday 24, August

Morning session: 10h–12h

- 10:00–10:10 — P. GINGERICH and M. GODINOT: Introduction.
10:10–10:30 — G. STORCH: Paleobiology of Messel Erinaceomorphans.
10:30–10:50 — J. FRANZEN: Paleobiology of the Messel primates.
10:50–11:10 — P. LUCKETT: Number and homology of premolars in Tribosphenida (Mammalia).
11:10–11:30 — P. BUTLER: Dilambdodont molars.
11:30–11:45 — L. KORDOS: Sirenian evolution in the Tethyan area during the early Cenozoic.
11:45–12:00 — M. GODINOT and R. SMITH: Affinities and way of life of *Paschatherium* (Condylarthra) from its tarsals.

First afternoon session: 14h–16h

- 14:00–14:20 — E. GHEERBRANT: N'Tagourt 2 (Morocco, Ypresian): the oldest Eocene mammal locality from Africa.
14:20–14:40 — D. KRAUSE: The biogeographic origins of the modern orders of mammals: did the Indian subcontinent and Madagascar play a role?
14:40–15:00 — M. DAWSON: Holarctic late Paleocene to early Eocene rodent faunas.
15:00–15:20 — T. MARTIN: Incisor enamel microstructure evolution in early Paleogene rodents and its phylogenetical implications.
15:20–15:40 — M. VIANEY-LIAUD and J.-J. JAEGER: New hypothesis for the origins of the African rodents Graphiuridae and Anomaluridae.
15:40–16:00 — J. AGUSTI, J. BARBERA, L. CABRERA, J. PARÉS and M. LLENAS: Mammalian events at the Oligocene-Miocene boundary in the Ebro Basin (North-Eastern Spain). Correlation with the geomagnetic scale.

Second afternoon session: 16h30–18h30

- 16:30–16:50 — C. ESTRAVIS: Les mammifères de Silveirinha (Eocène inférieur du Portugal): composition, biostratigraphie et corrélations avec les gisements du niveau repère de Dormaal.
16:50–17:10 — E. KORDIKOVA: Preliminary data about paleontology and stratigraphy of the Southern and Eastern parts of Aktau Mountains, South-Eastern Kazakhstan.
17:10–17:30 — J. HARTMAN: Patterns of diversification of North American Paleogene nonmarine Mollusca in the context of Mammalian biochronology.
17:30–17:45 — J. HOOKER: *Adapisorex anglicus* is a bat.
17:45–18:00 — S. TING: A new early Eocene perissodactyl from Hengdong, China.
18:00–18:15 — A. AVERIANOV: New dichobunid artiodactyls from the early Eocene of Kirgizia.
18:15–18:30 — V.A. NESIN and L.I. REKOVETS: On the problem of the origin and evolution of Arvicolidae (Rodentia).

POSTERS:

- 09.074 – P. PELAES-CAMPOMANES and N. LOPEZ MARTINEZ: Strange Eocene rodents from Spain.

- 09.075 – B. SIGÉ: Toward a phylogeny of bats.
09.076 – J. SUDRE: The late lower Eocene radiation of artiodactyls in Europe.

SYMPOSIUM 10:

QUANTITATIVE GENETICS IN EVOLUTION

Organized by Montgomery SLATKIN and Claude CHEVALET

Monday 23, August

Morning session: 10h–12h

- 10:00–10:30 — N. BARTON: Spatial variation in quantitative traits.
10:30–11:00 — C. CHEVALET: Quantitative genetics models under natural selection.
11:00–11:30 — K. KEIGHTLEY and A. CABALLERO: Bias in estimation of the rate of polygenic mutation.
11:30–12:00 — M. GILLOIS: Ontogenesis and quantitative genetics.

First afternoon session: 14h–16h

- 14:00–14:15 — D. ROFF: The evolution of dimorphic traits: monomorphism does not mean homozygosity.
14:15–14:30 — F. PULIDO and P. BERTHOLD: The evolution of migratory behavior in the blackcap: quantitative genetics of migratory restlessness.
14:30–14:45 — K. DAWSON: Multilocus models with rare alleles.
14:45–15:00 — G. DE JONG: Selection on reaction norms.
15:00–15:15 — J. MERILA: Quantitative genetic variability and genetic constraints in a natural bird population.
15:15–15:30 — F. HOSPITAL: Effects of linkage and drift on the variability of quantitative characters under selection.
15:30–15:45 — C. PAOLETTI and M. PIGLIUCCI: Effects of chromosomal addition on reaction norms of *Triticum aestivum*.
15:45–16:00 — L. ZHIVOTOVSKY: Stabilizing selection and the evolution of quantitative variability.

POSTERS:

- 10.077 – H. HOTZ, R.D. SEMLITSCH, S. SCHMIEDEHAUSEN and P. BEERLI: Differential performances of LDH-B genotypes in water frog tadpoles.
10.078 – A. KOROL, V.M. KIRZHNER and Y.I. RONIN: Polymorphism caused by stabilizing selection with cyclically changing optimum.
10.079 – V. KOUFOPANOU and A. BURT: On making a better fly.
10.080 – H. TEOTONIO, A. COELHO, M. MATOS, C. REGO and T. ROCHA PITE: A trade-off not detected at the individual level appears by group comparison — The phenotypic fallacy.
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SYMPOSIUM 11:

COMPARATIVE EVOLUTION IN HOST-PARASITE SYSTEMS

Organized by Daniel BROOKS and François RENAUD

Wednesday 25, August

Morning session: 10h–12h (Co-chaired by D. BROOKS and E. HOBERG)

- 10:00–10:30 — D. BROOKS and D. McLENNAN: Parasite evolution: Myths, metaphors and misconceptions.
10:30–10:45 — D.H. CLAYTON and R.D. GREGORY: Showy species of neotropical birds have lower (not higher) ectoparasite loads: an interspecific test of the Hamilton-Zuk hypothesis.
10:45–11:00 — O. VERNEAU, F. RENAUD and F. CATZEFLIS: Comparative evolution in a host (Teleostean)-parasite (Cestoda) association.
11:00–11:15 — M. VAN BAALEN: Multiple infection and the evolution of virulence.
11:15–11:30 — S.A. NADLER: Ascaridoid nematod evolution: cophylogeny or colonization?
11:30–11:45 — M. CICHON: The evolution of brood parasitism — the role of facultative strategy.
11:45–12:00 — G.J. KLASSEN: Boxfishes (Tetraodontiformes: Ostraciidae) and *Haliotrema* species (Monogenea: Ancyrocephalidae): examining coevolutionary hypothesis.

Thursday 26, August

Morning session: 10h–12h (Co-chaired by D. BROOKS and D.H. CLAYTON)

- 10:00–10:15 — M. ROWELL-RAHIER: Genetic differentiation and host specialisation in sympatric phytophagous leaf-beetles with implications for defense against natural enemies.
10:15–10:30 — J. BARSJENE: Karyological issues for the evaluation of trematodes phylogeny and evolution.
10:30–10:45 — E. HOBERG: Parasite-host systems and comparative studies in biodiversity.
10:45–11:00 — A. PAULAUSKAS: Isoenzymes and evolution of host-parasite systems.
11:00–11:15 — J.-P. HUGOT and M. BAYLAC: Comparative landmarks analysis of some Oxyuridae parasitic of primates and rodents, using the patterns of the caudal bursa of the male.
11:15–12:00 — Roundtable discussion on current issues in parasite phylogenies (Co-chaired by J.L. JUSTINE and G.J. KLASSEN).

POSTERS:

- 11.081 — J. OUBORG: The relation between population size and disease susceptibility in plant population.
11.082 — M. PETTERSSON and B. GILES: Does the sterilizing anther-smut fungus *Microbotryum violaceum* change the gene pool of its host, the perennial herb *Silene dioica*.

SYMPOSIUM 12:

SEXUAL SELECTION

Organized by Finn KJELLBERG

Wednesday 25, August

Sex ratio section

Morning session: 10h–12h

- 10:00–10:10 — Introduction.
10:10–10:30 — C.J. NAGELKERKE: Simultaneous optimization of egg distribution and sex allocation in

- a patchy environment.
- 10:30–10:50 — E. WAJNBERG: Sex allocation in parasitic wasps: local mate competition and sex-sequence patterns.
- 10:50–11:10 — D. PARKER and M. NIKLASSON: Male failure and its effect on sex rates in *Nasonia vitripennis*.
- 11:10–11:30 — S.W. SKINNER: Behaviour systems underlying sex ratio variation in *Nasonia vitripennis*, a parasitic wasp.
- 11:30–11:50 — L. SUNDSTRÖM: Sex allocation in *Formica truncorum*. Evidence of split sex ratios.
- 11:50–12:00 — Concluding remarks.

Thursday 26, August

General sexual selection section

Morning session: 10h–12h

- 10:00–10:20 — M. NOIROT, D. COUVET and S. HAMMON: Ressource allocation, pollen-ovule ratio and seed-set in cleistogames and pseudogamous apomicts. Comparison with allogames.
- 10:20–10:40 — I. TILL-BOTTRAUD, I. DAJOZ, A. MIGNOT and P.-H. GOUYON: Sexual selection in plants and pollen morphology: why so few 4-aperturate pollen?
- 10:40–11:00 — C. BRESSAC and D. LACHAISE: Why so few giant sperm?
- 11:00–11:20 — T.C.M. BAKKER: Female mating preference and preferred male trait show positive genetic correlation in sticklebacks.
- 11:20–11:40 — J.D. REYNOLDS and I.M. COTE: Good mates cost more in the redlip blenny.
- 11:40–12:00 — A. POMIANKOWSKI: Mate preference for multiple sexual ornaments.

POSTERS:

- 12.083 — A. KAITALA and C. WIKLUND: Female polyandry and sexual selection for large males in the green-veined white butterfly.
- 12.084 — S. PARRI, J. MAPPES and R.V. ALATALO: Broad males enjoy high mating success.

SYMPOSIUM 13:

NON-MENDELEIAN INHERITANCE

Organized by Rolf HOEKSTRA and Anne ATLAN

Friday 27, August

Cytoplasmic section

Morning session: 10h–12h

- 10:00–10:25 — R. STOUTHAMER: Microbe-associated parthenogenesis in Hymenoptera.
- 10:25–10:50 — C. SOUTY-GROSSET, F. GRANDJEAN, R. RAIMOND and T. RIGAUD: Feminizing sex factors dynamics and mitochondrial DNA analysis in *Armadillum vulgare* L. (Crustacea).
- 10:50–11:15 — J.M.M. VAN DAMME *et al.*: On the dynamics of nuclear-cytoplasmic gene interactions in plants.
- 11:15–11:40 — B. GODELLE: Evolutionary causes of mendelian and non-mendelian inheritance.
- 11:40–12:00 — A. POMIANKOWSKI and L. HURST: Genomic conflicts underlying speciation.

Nuclear section

First afternoon session: 14h–16h

- 14:00–14:25 — A.C. JAMES: Fitness effects of "sex ratio" meiotic drive in a natural population of

Drosophila neotestacea.

- 14:25-14:50 — E. SZATHMARY and J. MAYNARD SMITH: The origin of chromosomes.
14:50-15:15 — M. NAUTA: Meiotic drive in fungi: the evolution of spore killing in *Neurospora*.
15:15-15:40 — E. JABLONKA and M.J. LAMB: The role of non-DNA inheritance systems in the transitions to new levels of individuality.
15:40-16:00 — A. BURT and R. TRIVERS: Selfish DNA and breeding system in flowering plants.

POSTERS:

- 13.085 — A. DE HAAN: Dynamics of gynodioecy in *Plantago lanceolata* L.
13.086 — C. RICCI and N. SAINO: Fitness correlates and heritability of senescence in a bdelloid rotifer.

SYMPOSIUM 14:

GEOGRAPHIC VARIATION

Organized by Roselyne LUMARET

Thursday 26, August

First afternoon session: 14h-16h

- 14:00-14:10 — Introduction: Space and time variation.
14:10-14:35 — W.U. BLANCKENHORN and J. FAIRBAIRN: Life history variation along a latitudinal cline in *Aquarius remigis*.
14:35-14:55 — P. BOUDRY, P. VERNET and H. VAN DIJK: Genetic variation, geographical distribution and adaptative significance of the vernalization requirement in wild beets (*Beta vulgaris*).
14:55-15:20 — E.S. ROYTBURG: A comparative study of intra-and inter- population variation in two sympatric lizard species of the genus *Lacerta*.
15:20-15:45 — B.S. SIMONSEN, P. ARCTANDER and P. KAT: Population structure of Kenyan waterbuck based on mtDNA sequences.
15:45-16:00 — F. VILLANI, M. CHERUBINI and A.E. SZMIDT: Genetic evidence for three different groups of *Castanea sativa* populations in Turkey.

Second afternoon session: 16h30-18h30

- 16:30-16:55 — M. ALCOBENDAS and P. ALBERCH: Genetic structure and differentiation in *Salamandra salamandra* populations from the Iberian Peninsula.
16:55-17:20 — B. GILES: Changes in the genetic structures of *Silene dioica* populations of known age.
17:20-17:45 — A. WESTERBERGH: Speciation of endemic *Silene* (Caryophyllaceae) on the youngest Hawaiian islands.
17:45-18:10 — L. DE BRUYN *et al.*: Geographic variation in selective pressures acting on a dipterous gall-former on the common reed.
18:10-18:30 — M. SCHEEPMACKER and S.P. MENKEN: Geographic differentiation and chronopopulations in *Yponomeuta* (Lepidoptera, Yponomeutidae).

POSTERS:

- 14.087 — J. BALANYA, C. SEGARRA, A. PREVOSTI and L. SERRA: Colonization of America by *Drosophila subobscura*: allozyme polymorphism and the founder event.
14.088 — J. BANBURA: A new model of lateral plate morph inheritance and its consequences to studies of geographic variation of the three-spined stickleback, *Gasterosteus aculeatus*.
14.089 — R. DOLAN: Population genetic structure and post-glacial migration in a North American

prairie plant.

- 14.090 – GONZALEZ-CARMONA and I. DOADRIO: Diploid-triploid complex analysis of *Tropidophoxinellus alburnoides* (Steindachner, 1966) (Cyprinidae, Osteichthyes) using allozymic data.
- 14.091 – A.-C. HEIBERG, P. PALSBOELL and P. ARCTANDER: Genetic studies of the population structure of the North Atlantic Mink whale, *Balaenoptera acuturostrata*, based on mitochondrial DNA.
- 14.092 – V.V. KALNIN, O.V. KALNINA, M.I. PROSNJAK, I.M. RHDIA TOVA, E.R. KHUSNUTDINOVA, K.S. RAPHCIOV and S.A. LIMBORSKA: Use of DNA fingerprints for human population genetic studies.
- 14.093 – M. KLEIN and A. SEITZ: Genetic and morphometric variation among French populations of the weevil *Rhinocyllus conicus*.
- 14.094 – A. KOZHARA, Y.G. IZIUMOV and A.N. KASYANOV: Geographic variations in the anadromous forms of the common roach *Rutilus rutilus* L. as compared to the parapatric homebred populations.
- 14.095 – N. MACHON, M. LEFRANC, M. SANDMEIER, T. ROBERT and L. BILGER: Genetic diversity in French elms.
- 14.096 – A. MACHORDOM, A. PERDICES and I. DOADRIO: Genetic polymorphism analysis of different iberian populations of killy-fish (*Aphanius iberus*) (Pisces, Cyprinodontidae).
- 14.097 – D. MOSSAKOWSKI, C. SCHNAUDER, W. CARIUS and B. KLEIN: Different enzyme patterns in populations of carabid beetles near regions of former glaciation.
- 14.098 – I. NORDAL and B. JONSELL: The genetic structure of *Arabis petraea*, an early immigrant into the former glaciated areas of Northern Europe.
- 14.099 – P.G. NORRENMOLLE, P. ARCTANDER, M. MELDGAARD and S. PAABO: Phylogeny, evolution and zoogeography of reindeer (*Rangifer tarandus*) subspecies, based on sequence data of the mitochondrial control-region.
- 14.100 – E. POLONI, L. EXCOFFIER, J.L. MOUNTAIN, A. LANGANEY and L.L. CAVALLI-STORZA: Analysis of nuclear DNA diversity in a Mandenka sample from Eastern Senegal, and comparison with eighth other human populations.
- 14.101 – L.E.L. RAIJMANN: Genetical differentiation and levels of gene flow in the oligophagous moth *Yponomeuta padellus*.
- 14.102 – M. SCHEEPMAKER: Estimated levels of gene flow, speciation and phylogenetic relationships among members of the *Gammarus pulex* group (Crustacea, Amphipoda) in Western Europe and North Africa.
- 14.103 – M.G. SERGEEV: Geographic variation of Orthoptera and problems of spatial evolution.
- 14.104 – S. SHARYGIN: Bioevolution and geochemical ecology of reptiles.
- 14.105 – P. SHAW, G.R. CARVALHO, A.E. MAGURRAN and B.H. SEGHERS: Factors affecting the distribution of genetic variability in a freshwater fish, the guppy *Poecilia reticulata*.
- 14.106 – L. PARDUCCI, F. VILLANI, M. CHERUBINI and A.E. SZMIDT: Genetic variation of Italian *Abies alba* Mill. populations.
- 14.107 – I. TOGAN and A. ERGUVEN: The red cell enzyme and blood group polymorphisms in Turkey.
- 14.108 – J.K. VAINIO and R. VAINOLA: Allozyme differentiation of the freshwater shrimp *Gammarus lacustris* in Northern Europe: evidence of distinct glacial refugia.

SYMPOSIUM 15:

REPRODUCTIVE SYSTEMS

Organized by Deborah CHARLESWORTH and Philippe JARNE

Monday 23, August

Morning session: 10h-12h

- 10:00-10:20 — J. HELLER: Hermaphroditism in molluscs.
10:20-10:40 — S. LAHAV-GINOTT: The evolution of dioecy in nettles.
10:40-11:00 — X. VEKEMANS and M. SLATKIN: Coalescent properties of genes and alleles at a gametophytic self-incompatibility locus.
11:00-11:20 — B. DOMMÉE: Hereditary and evolutionary basis of sexual tetramorphism in *Thymelaea hirsuta* L. (Endl.), Thymelaeaceae.
11:20-11:40 — D. MANICACCI and D. COUVET: The structuration of nuclear genes involved in sex determination in the gynodioecious *Thymus vulgaris* L.
11:40-12:00 — L. SVENSSON: Stamen number variation in *Scleranthus*.

First afternoon session: 14h-16h

- 14:00-14:20 — M. MACNAIR and S.E. SMITH: The genetics of inbreeding in the *Mimulus guttatus* complex.
14:20-14:40 — C. DAMGAARD, B. GULDBRANDTSEN and F.B. CHRISTIANSEN: The influence of gametic selection on the evolution of mating systems.
14:40-15:00 — T. HAUSER and V. LOESCHCKE: Mating-distance and inbreeding depression in *Lychnis flos-cuculi* (Caryophyllaceae).
15:00-15:20 — B. CHARLESWORTH, M.T. MORGAN and D. CHARLESWORTH: Consequences of selfing for molecular variation: a simulation study.
15:20-15:40 — O. SAVOLAINEN and K. KARKKAINEN: Deleterious recessives in the breeding system of conifers.
15:40-16:00 — M. LOEW and T. STADLER: Low outcrossing rates in polyploid freshwater snails: effects of history and genetic systems.

Second afternoon session: 16h30-18h30

- 16:30-16:50 — B. BAUR: Mating and sperm utilization patterns in simultaneously hermaphroditic land snails.
16:50-17:10 — C. DOUMS, B. DELAY and P. JARNE: Life-history traits in aphallic versus euphallic *Bulinus truncatus* (hermaphrodite freshwater snail).
17:10-17:30 — J. AGREN and L. ERICSON: Population structure and morph-specific fitness differences in tristylous *Lythrum salicaria*.
17:30-17:50 — H. KORPELAINEN: Growth, sex determination and reproduction of *Dryopteris filix-mas* gametophytes.
17:50-18:10 — J. McCABE: Environmental sex determination with two cues.
18:10-18:30 — V. SCALI, F. TINTI and B. MANTOVANI: Hybridogenetic-parthenogenetic-androgenetic reproduction in stick insects (Insecta Phasmatodea).

POSTERS:

- 15.109 — E. APARICI-SANZ and M. SERRA: Polymorphism in mixis strategies of rotifers living in temporally-varying habitats. A simulation approach.
15.110 — S. BATURIN: Variability of the apomictic seedlings of *Fragaria* x *Ananassa*.
15.111 — M.R. BAUERT: Allocation to reproduction in *Polygonum viviparum* at different latitudes.
15.112 — J. CIHAKOVA and D. FRYNTA: Sexual dimorphism, relative size of testes and intermale aggression in palaeartic mice (Rodentia: Muridae).
15.113 — A. DIAZ: Preanthesis cleistogamy and interspecific pollen competition as a prezygotic

- isolation barrier in *Mimulus nasutus* (Scrophulariaceae).
- 15.114 – S. DOBLER: Reproductive strategies in the leaf beetle genus *Oreina*.
- 15.115 – A. GOMEZ, M. TEMPRANO and M. SERRA: Population structure of the rotifer *Brachionus plicatilis* in small permanent ponds.
- 15.116 – N. GORENSTEIN: Genetical structure of self-incompatible plant populations.
- 15.117 – C. LEFEBVRE, S. BLAISE, J.P. BRIANE and X. VEKEMANS: Pollen/ovule ratio, pollen size and breeding system variation in *Armeria maritima* (Mill.) Willd. (Plumbaginaceae).
- 15.118 – L.M. NIELSEN: Preadaptation or biotic independency: two ways of being a successful invader.
- 15.119 – M.-J. PERROT-MINOT and M. NAVAJAS: Pseudo-arrhenotoky involves biparental inheritance of a RAPD marker in males of the haplo-diploid mite *Typhlodromus pyri*.
- 15.120 – M. PHILIPP: Pollen pools and seed set in a population of *Geranium sanguineum*.
- 15.121 – J. RONFORT and D. COUVET: Maintenance of intermediate selfing rate in finite and structured populations.
- 15.122 – M. SANDMEIER and I. DAJOZ: Variation in the allocation to male and female functions in pearl millet: the cost of producing pollen.
- 15.123 – N. SUKHAREVA: Evolutional role of apomixis in *Fragaria*.
- 15.124 – E. WOSSE: Reproductive strategies in freshwater bryozoans: sexuality and dispersal.

SYMPOSIUM 16:

BEHAVIORAL ECOLOGY

Organized by Kate LESSELLS and Frank CEZILLY

Thursday 26, August

First afternoon session: 14h–16h

- 14:00–14:30 — B.J. ENS: Divorce as a major career decision in monogamous birds.
- 14:30–15:00 — J. McNAMARA: Pair fidelity and divorce.
- 15:00–15:30 — B. TABORSKY, M. TABORSKY and M. POTTER: The stability of pairs and social plasticity in a long lived bird, the brown kiwi.
- 15:30–16:00 — F. ADRIAENSEN and A. DHONDT: Why do divorce rates in tits differ between populations?

Second afternoon session: 16h30–18h30

- 16:30–17:00 — S. CHOUDHURY and J.M. BLACK: The relationship between partner complementarity, pair fidelity and reproductive success in goose pairs.
- 17:00–17:30 — P. FORSLUND: Mate fidelity in the Barnacle goose and other bird species — how important is age and quality?
- 17:30–18:00 — F. CEZILLY: Mate switching and age assortative mating in the greater flamingo.
- 18:00–18:30 — F. MAYER: Multiple paternity and sperm competition in the noctule bat (*Nyctalus noctula*) revealed by DNA fingerprinting.

Evening session: 20h30–22h30

- 20:30–22:30 — Poster session.

Friday 27, August

Morning session: 10h–12h

- 10:00–10:30 — J. MAPPES and A. KAITALA: Female parent bug lays as many eggs as she can defend.

- 10:30–11:00 — G. SELLA: Non-parental egg attendance in the polychaete worm *Ophryotrocha diadema*.
 11:00–11:30 — G.J. FITZGERALD: Sexual selection in an anadromous population of sticklebacks — no role for parasites.
 11:30–12:00 — S.M. SHUSTER: Female mate choice in isopods: copying or aggregation?

POSTERS:

- 16.125 — A. BARBOSA: Scanning behaviour of visual — and tactile-feeding waders (Aves: Charadrii).
 16.126 — A. EXNEROVA: Foraging strategies of the wheatear (*Oenanthe oenanthe*): the comparative study in different habitats.
 16.127 — D. FRYNTA: Odour based discrimination among populations of striped field mouse (*Apodemus agrarius*).
 16.128 — P. HEEB: Choice of nest site in relation to nestbox density in the tree sparrow (*Passer montanus*).
 16.129 — M. LAMBRECHTS, J.R. CLEMMONS and J.P. HAILMAN: The invitational hypothesis of wing quivering: Signaling behaviour of black-capped chickadees with nestlings.
 16.130 — B. LIVOREIL, C. BAUDOIN and P. GOUAT: Comparative study of foraging behaviour in three ground squirrel species.
 16.131 — R. PAXTON: Why does the solitary bee, *Andrena fulva* nest gregariously?
 16.132 — S. SALVIDIO: Stability in the European plethodontid salamander *Speleomantes ambrosii*.
 16.133 — J.-C. SENAR, J.-L. COPETTE and M. CAMERINO: Costs and benefits of delayed versus advanced plumage maturation in the siskin (*Carduelis spinus*): an analysis of aggressive interactions and body condition.
 16.134 — A. SMITHSON and J. CROSSWELL: The effects of memory constraints on foraging in bumblebees, genus *Bombus*, and the potential for frequency-dependant selection among floral variants.
 16.135 — M. VANCATOVA: Infanticide and primate evolution.
 16.136 — M.A. VANCATOVA, V. CANCELA and L. JEBAVY: Environmental stress and the changes of behavioural patterns in higher primates.
 16.137 — R. ZILBERMAN, Y. YOM-TOV and B. MOAV: Extra-pair paternity and identified extra-pair sales in a sunbird population (*Nectarinia osea osea*) in Israel.

SYMPOSIUM 17:

UNITS OF SELECTION AND THE ORIGIN OF EVOLUTIONARY NOVELTIES

Organized by Günter P. WAGNER

Tuesday 24, August

Morning session: 10h–12h

- 10:00–10:15 — Introduction by G.P. WAGNER.
 10:15–10:45 — E. SZATHMARY: The integration of genetic information.
 10:45–11:15 — E. JABLONKA: The role of non-DNA inheritance systems in the transitions to new levels of individuality.
 11:15–11:45 — M.D. LAUBICHLER: Identifying units of selection: conceptual and methodological issues.
 11:45–12:00 — Open discussion.

Wednesday 25, August

Morning session: 10h–12h

- 10:00–10:30 — T. GARLAND: Analyzing correlated character evolution with phylogenetic trees.

- 10:30–11:00 — V. KOUFOPANOU: The evolution of Soma in the Volvocales.
 11:00–11:30 — H.P.A. DOPAZO and P. ALBERCH: Evolution of life-history patterns through intra-uterine competition and heterochronic mechanisms.
 11:30–12:00 — F. SCUDO: The evolution of endocytobiosis in metazoans.

POSTERS:

- 17.138 — J. FLEGR: Regulating mechanisms and the origin of r-K dichotomy.
 17.139 — N. IORDANSKY: Cascade correlations, key innovations, and macroevolution.

SYMPOSIUM 18:

HETEROCHRONY IN EVOLUTION

Organized by Kenneth J. McNAMARA and Raimund FEIST

Thursday 26, August

Morning session: 10h–12h

- 10:00–10:20 — V. MOSBRUGGER: Heterochrony and the evolution of land plants.
 10:20–10:40 — D. KORN: Iterative progenesis in the evolution of Late Devonian ammonoids.
 10:40–11:00 — R. FEIST: A paedomorphocline in Late Devonian phacopine trilobites.
 11:00–11:20 — R.R. SCHOCH: Cranial development, heterochrony and skull kinesis in temnospondyl larvae.
 11:20–11:40 — S. SMIRNOV: Paedomorphosis, latent capacities and "neomorphic" features in anuran skull morphology.
 11:40–12:00 — G.D. GUERX, P. BEERLI and H. HOTZ: Viviparity poses no apparent evolutionary constraints on morphological sexual dimorphism in European salamandrids.

First afternoon session: 14h–16h

- 14:00–14:20 — K.J. McNAMARA: Heterochrony and the evolution of insects.
 14:20–14:40 — M.M. SMITH: Heterochrony in relation to the evolution of enamel and enameloid in the vertebrate record.
 14:40–15:00 — M.J. RAVOSA: An ecological perspective on heterochrony and speciation in Malagasy sifakas.
 15:00–15:20 — P. LUCKETT: Heterochrony and dental evolution in dasyuroid marsupials.
 15:20–15:40 — H.J. KEENE: Heterochronic mechanisms in human dental evolution.
 15:40–16:00 — M. ZELDITCH and F.L. BOOKSTEIN: Beyond rates and timings: heterochrony and heterotopy in the evolution of cotton rat skulls.

Second afternoon session: 16h30–18h30

- 16:30–16:50 — B.T. SHEA: Developmental controls, allometry and heterochrony.
 16:50–17:10 — A. MINELLI and G. FUSCO: Body segmentation and segment differentiation; how much scope for heterochronic changes?
 17:10–17:30 — M. SHISHKIN: Heterochrony as an effect on stabilizing selection.
 17:30–17:50 — C.P. KLINGENBERG: Heterochrony and allometry: connections and distinctions.
 17:50–18:10 — K. GIBSON: Brain size, brain maturation patterns and the evolution of human intelligence.
 18:10–18:30 — General discussion.

SYMPOSIUM 19:

HYBRID ZONES

Organized by Godfrey M. HEWITT and Pierre BOURSOT

Tuesday 24, August

Morning session: 10h-12h

- 10:00-10:24 — J.W. ARNTZEN: Phylogenetic and ecological hierarchy in newt hybrid zones (genus *Triturus*).
10:24-10:48 — P. BOURSOT, B. DOD, J. DALLAS and F. BONHOMME: Historical aspects of the radiation of the house mouse; consequences on genomic coadaptation and the formation of hybrid zones.
10:48-11:12 — M. ARNOLD: Hybridization in irises.
11:12-11:36 — D. HOWARD: Dynamics of the *Allonemobius* hybrid zone.
11:36-12:00 — J. SITES, K. REED and N. BARTON: Understanding mosaic hybrid zones.

First afternoon session: 14h-16h

- 14:00-14:24 — J. MALLET: Are *Heliconius* hybrid zones stabilized by selection on colour patterns?
14:24-14:48 — D. SHAW: Rapid and asymmetrical change to the structure of the chromosomal hybrid zone in the Australian grasshopper *Caledia captiva*.
14:48-15:12 — R. BUTLIN and R. NEEMS: Sexual signals in the *Chorthippus parallelus* hybrid zone.
15:12-15:36 — D. FAIRBAIRN: Speciation within the water strider genus *Aquarius*: Concordance between morphological and allozyme variation across a hybrid zone.
15:36-16:00 — J. SPENCE: Interspecific hybridization as a technique in evolutionary studies of pondskaters (Gerridae): two vignettes.

Second afternoon session: 16h30-18h30

- 16:30-16:50 — L. CRESPIN and P. BERREBI: The hybrid zone of barbels: another tension zone?
16:50-17:10 — B. NÜRNBERGER, C. MACCALLUM and N. BARTON: Correlations among quantitative traits in the *Bombina* hybrid zone.
17:10-17:30 — K.S. GALES: The position of the chromosomal cline in the alpine grasshopper *Podisma pedestris*.
17:30-17:50 — C. MACCALLUM, B. NÜRNBERGER and N. BARTON: The importance of habitat preference in a tension zone.
16:50-18:10 — M. CHERRY, W.S. GRANT and E. HARLEY: Mating behaviour determines the direction of introgression between two hybridizing African toad species: a test using mitochondrial DNA analysis.
18:10-18:30 — S. BAIRD: Modelling hybrid zones using junction theory.

Evening session: 20h30-22h30

- 20:30-20:50 — P. VAN DIJK and T. SCHOTMAN: Phylogeography of cpDNA in 2x and 4x *Plantago media*.
20:50-21:10 — R. RIBI and H. TRUB: Isolating mechanisms between the hybridizing snails *Viviparus ater* and *V. contectus*.
21:10-21:30 — F. FELBER, M. FELBER-GIRARD and A. BUTTLER: Habitat differentiation in a narrow hybrid zone between diploid and tetraploid *Anthoxanthum alpinum* (Poaceae).
21:30-21:50 — A. SCHOLL and E. OBRECHT: A mosaic hybrid zone of *Bombus argillaceus* and *B. ruderalis* (Hymenoptera: Apidae) in France.
21:50-22:10 — C. LARGIADER and A. SCHOLL: Hybrids in brown trout populations from Switzerland.
22:10-22:30 — M. LOERTSCHER and A. SCHOLL: Analysis of a contact zone among three nominal *Erebia* species *E. tyndarus*, *E. cassioides* and *E. nivalis* (Lepidoptera: Satyridae) in the Swiss Alps.

POSTERS:

- 19.140 – P. ALIBERT *et al.*: Developmental stability in hybrid populations of the house mouse.
- 19.141 – P. BENNINGER, A. PORTER, H. GEIGER, H. and A. SCHOLL: The hybrid zone between the butterflies *Pieris napi napi* and *P. napi bryoniae* (Lepidoptera: Pieridae) in Switzerland, with an estimate of the adult male survivorship curve.
- 19.142 – A. BIERE and S. HONDERS: Dynamics of a fungal pathogen, *Ustilago violacea*, in sympatric populations of its hybridizing host species *Silene alba* and *S. dioica* (Caryophyllaceae).
- 19.143 – P. DOS SANTOS, D. SELIVON and S.R. LATUIKU: Evidence of introgressive hybridization between *Anastrepha fraterculus* and *A. sororcula* revealed by mtDNA RFLP analysis.
- 19.144 – J.P.A. GARDNER and R.J. THOMPSON: Physiological energetics of the hybridizing marine bivalve molluscs *Mytilus edulis* and *M. trossulus* in Newfoundland, Eastern Canada.
- 19.145 – C. HUMBERT-DROZ: Reproductive interactions in a narrow hybrid zone between diploid and tetraploid *Anthoxanthum alpinum* (Poaceae) compared with pure populations.
- 19.146 – M. KATOH, R. SPANNRING and G. RIBI: Electrophoretic evidence for natural hybridization in freshwater snails.
- 19.147 – M. MACHOLAN: Morphological and biochemical study in the *Mus musculus* / *Mus domesticus* hybrid zone in Western Bohemia.
- 19.148 – X.-R. WANG and A.E. SZMIDT: Hybridization and chloroplast DNA variation in a *Pinus* species complex from Asia.
- 19.149 – R. WENGER, H. GEIGER, H. and A. SCHOLL: Genetic analysis of a hybrid zone between *P. daplidice* (Linnaeus, 1758) and *P. edusa* (Fabricius, 1777) (Lepidoptera: Pieridae) in Northern Italy.

SYMPOSIUM 20:

ENDOSYMBIOSIS OR ENDOCYTOBIOLOGY

Organized by Paul NARDON and François ROUSSET

Thursday 26, August

Morning session: 10h–12h (Chairman: M. SOLIGNAC)

- 10:00–10:10 — P. NARDON: Introduction.
- 10:10–10:35 — P. NARDON and A.M. GRENIER: Symbiosis and evolution.
- 10:35–11:00 — Th. BRIGGE, N. SPRINGER, H.J. SCHMIDT and H.-D. GORTZ: Establishment and maintenance of intranuclear symbiosis of bacteria in *Paramecium caudatum*. A comparison of infectious and non-infectious bacteria.
- 11:00–11:25 — T. RIGAUD, D. BOUCHON, G. MARTIN, J.P. MOCQUARD, R. RAIMOND, C. SOUTY-GROSSET and P. JUCHAULT: Feminizing *Wolbachia* in isopod Crustacea: endocytobiosis as a source of evolutionary changes.
- 11:25–11:50 — K.L. MANGIN and W.D. HAMILTON: Co-dispersal and the evolution of cooperation: a simulation model.
- 11:50–12:00 — General discussion.

First afternoon session: 14h–16h (Chairman: B. CAMPBELL)

- 14:00–14:25 — R. CERFF, H. BRINKMANN and W.F. MARTIN: Evidence for a chimaeric nature of nuclear genomes: Eubacterial origin of eukaryotic glyceraldehyde-3-phosphate dehydrogenase genes.
- 14:25–15:00 — H.E.A. SCHENK: From cyanelle to cyanoplast: intertaxonomic combination and evolutive consequences.

- 15:00–15:25 — C. LOUIS: Does symbiosis exist in virus-invertebrate interactions?
 15:25–15:45 — P. WREDE, G. SCHNEIDER, S. RÖHLK, I. KNOPF and M. HAUSWALD: Targeting sequences are analysed in the view of endocytobiology.
 15:45–16:05 — M. SOLIGNAC and F. ROUSSET: Diversity of the arthropod endosymbiont *Wolbachia* and its effect on host sexuality.

Second afternoon session: 16h30–18h30 (Chairman: H.E.A. SCHENK)

- 16:30–16:55 — L. STEVENS: Cytoplasmic incompatibility in *Tribolium* flour beetles.
 16:55–17:20 — R. GIORDIANO, S. O'NEILL, L. BOYLE, T. KARR and H. ROBERTSON: The rickettsial endosymbiont, *Wolbachia pipientis*, and cytoplasmic incompatibility in *Drosophila mauritiana* and *Drosophila sechellia*.
 17:20–17:50 — B.C. CAMPBELL: Phylogeny of intracellular bacteria of insects.
 17:50–18:15 — G. DAMIANI, C. BANDI, L. MAGRASSI, U. LAUDANI, A. GRIGOLO and L. SACCHI: Specific relationships between cockroach endosymbionts and flavobacteria revealed by 16S rDNA. Phylogenetic analysis.
 18:15–18:30 — General discussion.

POSTERS:

- 20.150 — P. KORANYI, S. VARGA, E. PREININGER and I. GYURJAN: Transfer of nitrogen-fixing ability: Establishment of artificial endosymbioses between prokaryotes and plants.
 20.151 — P. NARDON and A.-M. GRENIER: Nucleocytoplasmic incompatibility in the weevil *Sitophilus*.
 20.152 — C. SOUTY-GROSSET, F. GRANDJEAN, R. RAIMOND and T. RIGAUD: Feminizing sex factors dynamics and mitochondrial DNA analysis in *Armadillidium vulgare* Latr. (Crustacea, Isopoda).

SYMPOSIUM 21:

THE POPULATION BIOLOGY OF *DROSOPHILA*

Organized by Bryan SHORROCKS and Jean DAVID

Tuesday 24, August

Morning session: 10h–12h (Chairman: B. SHORROCKS)

- 10:00–10:20 — J.G. SEVENSTER and J.M. VAN ALPHEN: Aggregation and coexistence in a neotropical *Drosophila* community.
 10:20–10:40 — M. SANTOS: Heterozygote deficiencies under Levene's population subdivision structure.
 10:40–11:00 — S. CAVICCHI, D. GUERRA, V. LA TORRE and R. HUEY: Chromosomal analysis of heat-shock resistance in *Drosophila melanogaster* evolving at different temperatures in the laboratory.
 11:00–11:20 — P. CAPY and J. DAVID: *Drosophila melanogaster*-*Drosophila simulans*: sibling species and false friends.
 11:20–11:40 — D. JOLY and R.S. SINGH: Genetics of sperm length variation in *Drosophila*.
 11:40–12:00 — Poster session.

First afternoon session: 14h–16h (Chairman: J. DAVID)

- 14:00–14:20 — M. VEUILLE, V. BENASS, S. AULARD and S. MAZEAU: Molecular variation in ADH confirms *D. melanogaster* African origin.
 14:20–14:40 — T. YAMAZAKI, H. SHIBATA, N. INOMATA and E. OKUYAMA: Molecular polymorphism and evolution of the duplicated *Amy* locus in *Drosophila melanogaster* and its sibling species.

- 14:40–15:00 — E. HEIKKINEN, V. LAUNONEN and L. BACHMANN: On the evolution of a "pvB380" *Bam*HI satellite DNA family in the *Drosophila virilis* group.
 15:00–15:20 — J.-M. DELPUECH, C.F. AQUADRO and R.T. ROUSH: Non-involvement of the long terminal repeat of transposable element 17.6 in insecticide resistance in *Drosophila*.
 15:20–16:00 — Poster session.

POSTERS:

- 21.153 — S. AULARD, C. BIEMONT and F. LEMEUNIER: The distribution of two transposable elements, MDG1 and 412, within and between inverted and non-inverted chromosomes in a natural population of *D. melanogaster*.
 21.154 — J.M. COMERON and M. AGUADE: Divergence and polymorphism at the Xdh region of *Drosophila*.
 21.155 — M. HAMBLIN and C.F. AQUADRO: A study of DNA sequence variability at the glucose dehydrogenase locus in natural populations of *D. simulans* and *D. melanogaster*.
 21.156 — F. MESTRES and L. SERRA: Distribution of lethal genes within chromosomal inversions in colonizing populations of *Drosophila subobscura*.
 21.157 — W.J. MILLER *et al.*: Molecular transition of a former transposable P element to a new stationary host gene in *Drosophila guanche*.
 21.158 — E.J.K. NOACH, G. DE JONG and W. SCHARLOO: Phenotypic plasticity in six body length characters of isofemale lines of *Drosophila melanogaster*.
 21.159 — L. O'BRIEN, C. DYTHAM, E. BERTHIER, K. DOOHER, D. COATES and B. SHORROCKS: The invasion of genetically modified *Drosophila*.
 21.160 — M. PASCUAL and L. SERRA: First contact of *D. subobscura* and *D. pseudoobscura* in nature: is their coexistence possible?
 21.161 — J. ROZAS and M. AGUADE: Transfer of genetic information by gene conversion between chromosomal arrangements of *Drosophila subobscura*.
 21.162 — J. ROZAS, C. SEGARRA, C. ZAPATA, G. ALVAREZ and M. AGUADE: Nucleotide variation at the RP49 region of *Drosophila subobscura*: a temporal and geographic study.
 21.163 — J. VAN'T LAND, W. CAN DELDEN and A. KAMPING: Variation in *ln(2L)t* frequency in relation to the *Adh* and *Gpdh* polymorphisms in tropical populations of *Drosophila melanogaster*.
 21.164 — R.S. WELLS: Convergence and divergence at the glycerol-3-phosphate dehydrogenase locus in the genus *Drosophila*.

SYMPOSIUM 22:

EVOLUTIONARY BIOLOGY OF MARINE ORGANISMS

Organized by Eleftherios ZOUROS and François BONHOMME

Tuesday 24, August

First afternoon session: 14h–16h

- 14:00–14:05 — F. BONHOMME: Introduction.
 14:05–14:35 — R. VRIJENHOEK, R.A. LUTZ, C. CRADDOCK, M. BLACK, S. KARL, W.R. HOEH and R. GUSTAFSON: Gene flow and speciation in deep-sea hydrothermal vent organisms.
 14:35–15:00 — D. JOLLIVET and D. DESBRUYERES: Can the hydrothermal environment be responsible for the low genetic differentiation among deep-sea hydrothermal vent alvinellid polychaetes?
 15:00–15:30 — N. KNOWLTON and L.A. WEIGT: Speciation in snapping shrimps: allopatry versus sympatry.
 15:30–16:00 — H.A. LESSIOS: The first stage of speciation as seen in organisms separated by the isthmus of Panama.

Second afternoon session: 16h30-18h30

- 16:30-17:00 — J. JACKSON, S.M. SHUSTER, A.H. CHEETHAM and A. HERRERA: Shifting balance, founder events and bryozoan speciation.
17:00-17:20 — S. PIERTNEY and G.A. CARVALHO: Genetic relatedness and inbreeding within metapopulations of the intertidal Isopod *Jaera albifrons* (Leach).
17:20-17:40 — E. DE MATTHEIS, M. COBOLLI and D. DAVOLOS: Genetic structure in two supralittoral amphipods: *Orchestia montagui* and *Talitrus saltator*.
17:40-18:00 — P. DOHERTY, S. PLANES and P. MATHER: Gene flow and larval duration of coral reef fishes through the Great Barrier Reef.
18:00-18:30 — S.R. PALUMBI and E.C. METZ: Genetics of speciation in Pacific sea urchins and the evolution of gamete binding proteins.

Wednesday 25, August

Morning session: 10h-12h

- 10:00-10:30 — J. HILBISH and R. WILHELM: Natural selection within a hybrid population of the mussels *Mytilus edulis* and *M. galloprovincialis*.
10:30-10:50 — M. VALERO *et al.*: Genetic differentiation between populations of the red alga *Gracilaria verrucosa*.
10:50-11:10 — F. CALDARA, L. BARGELLONI and T. PATARNELLO: Mitochondrial DNA sequence variation in the Mediterranean grey mullets (Mugilidae).
11:10-11:30 — G.A. DURRHEIM, E.H. HARLEY, V.A. CORFIELD and M.H. RICKETTS: Novel codon usage and deep phylogenetic rooting of tunicates.
11:30-12:00 — E. ZOUROS: The unusual properties of the bivalve mitochondrial DNA: implications for population and evolutionary studies.

POSTERS:

- 22.165 — C. BATARGIAS and E. ZOUROS: Development and potential applications of highly polymorphic microsatellite and cDNA nuclear markers in Gilthead seabream, *Sparus aurata*.
22.166 — P. BIJOK, H. HUMMEL and R. HOGAARDS: The effect of stressing factors associated with position in intertidal zone and geographic distance on size and changes in genotype of *Mytilus edulis* (L.) and *Macoma balthica* (L.).
22.167 — M.E. D'AMATO and D. CORACH: Molecular evolution of repetitive DNA sequences between Aeglidae and related South American decapods.
22.168 — A. HERRERA and J.B.C. JACKSON: Life history variation and local adaptation in two bryozoans from Panama.
22.169 — R. JABBOUR and F. BLANC: Divergence and phylogenesis between four species in the pearl oyster genus *Pinctada* (Bivalvia: Pteridae).
22.170 — A. MAGOULAS, N. TSIMENIDES and E. ZOUROS: Mitochondrial DNA diversity in populations of anchovy (*Engraulis encrasicolus*) of the Mediterranean and adjacent seas.
22.171 — E. POULIN and J.-P. FERAL: The non dispersal strategy of the echinoid *Abatus cortatus*: Importance of the species spatial structure and the consequences on its genetic structure.
22.172 — M.S. SANCHEZ: Mitochondrial DNA in three sea otter, *Enhydra lutris* populations.
22.173 — S.V. VOLODIN and N.F. SHEVCHENKO: Use of discriminant and cluster analysis for investigation of spatial stock structure in the Black Sea whiting (*Merlangius merlangus euxinus*).

SYMPOSIUM 23:

TROPICAL BIOLOGY

Organized by Doyle McKEY and Pierre CHARLES-DOMINIQUE

Monday 23, August

Morning session: 10h-12h

- 10:00-10:15 — D. McKEY and P. CHARLES-DOMINIQUE: Introduction.
10:15-10:45 — C. TARDY: A paleoenvironmental approach to tropical rain-forest.
10:45-11:15 — M. COLYN: Speciation and paleoenvironmental Quaternary in Central Africa.
11:15-11:45 — M.-C. ANSTETT, G. MICHALOUD and M. HOSSAERT-McKEY: Survival of the fig-pollinator mutualism in tropical environments: Effect of seasonality and varying duration of receptivity on critical population size.
11:45-12:00 — Discussion.

Second afternoon session: 16h30-18h30

- 16:30-17:00 — P. BLANC: Basal repetition in plants: variations on a theme.
17:00-17:30 — C. JULLIOT: Frugivory and seed dispersal by red howler monkey: evolutionary aspect.
17:30-18:00 — S.H. McKAMEY: Reevaluating the role of ants in species diversity patterns of neotropical Membracidae (Insecta: Homoptera).
18:00-18:30 — J. KOELLA: On evolution in malaria-host-vector systems.

Evening session: 20h30-21h30

- 20:30-21:30 — Film: "Tropical forest of Guyana: regeneration and biodiversity" — Directed by A.R. DEVEZ; written by P. CHARLES-DOMINIQUE, H. PUIG and D. SABATIER.
21:30-22:30 — Discussion: The Tropics and evolutionary biology.



SYMPOSIUM 24:

EVOLUTIONARY BIOLOGY OF TREES AND FORESTS

Organized by Yan LINHART and Francis HALLÉ

Tuesday 24, August

First afternoon session: 14h-16h

- 14:00-14:20 — G. MÜLLER-STARCK: Genetic response to environmental stress in European forest tree populations.
14:20-14:40 — M.E. MALVOLI *et al.*: Genetic variation of stands and varieties of *Juglans regia* in Italy.
14:40-15:00 — R.M. BATEMAN and W.A. DIMICHELE: A non-adaptive saltational model for the evolution of tree architectures: Carboniferous rhizomorphic lycopsid phylogeny.
15:00-15:20 — B.K. EPPERSON: Spatial structure of genetic variation in populations of forest trees.
15:20-15:40 — Y. LINHART: Evolutionary consequences of multi-species parasitism on forest trees.
15:40-16:00 — F. HALLÉ: Recent findings in canopy biology of tropical forests.

Second afternoon session: 16h30-18h30

- 16:30-16:50 — T. SPECK, N. ROWE and J. GALTIER: The appearance of the self-supporting habit in seed-plants: biomechanical approach.
16:50-17:10 — G. MICHALOUD, M. KOBBI, S. CARRIERE and F. KJELLBERG: The evolution of the

symbiotic reproductive system between figs and fig wasps.

17:10–17:30 — K. BAWA: Genetic structure of tropical tree populations.

17:30–17:50 — V. MOSBRUGGER: The role of constraints in the evolution of trees.

17:50–18:30 — Posters and general discussion.

POSTERS:

24.174 — M.-H. CHEVALLIER: Genetic diversity in the genus *Acacia*: phylogenetic relationships among species.

24.175 — J. CROS, Ph. LASHERMES, Ph. MARMEY, F. ANTHONY and A. CHARRIER: Variation at the chloroplastic DNA level between coffee species: phylogenetic implications.

24.176 — M. GARDES and T.D. BRUNS: Structure and dynamics within a guild of ectomycorrhizal Fungi in a Californian bishop pine forest.

24.177 — S. MARK: Correlation between the spatial patterns of myrmecochorous herbs, seed foraging ants and the dynamic mosaic of forest patches.

24.178 — S. MAZER and N.T. WHEELWRIGHT: Fruit size and shape: allometry at different taxonomic levels in bird-dispersed plants.

24.179 — A.E. SZMIDT, S. CHANGTRAGOON and X.-R. WANG: Contrasting patterns of genetic diversity in two tropical pines: *Pinus khasya* (Royle) and *P. merkasii* (Jung & De Vriese).

24.180 — P. VAKKARI, T. POYKKO and J. MIKOLA: Heritability of growth in natural stands of scotch pine.

SYMPOSIUM 25:

WHY SEX ?

Organized by Rick MICHOD and Pierre-Henri GOUYON

Friday 27, August

Morning session: 10h–12h

10:00–10:15 — R. MICHOD and P.-H. GOUYON: Introduction.

10:15–10:30 — J.R. PECK: Beneficial mutations and the evolution of sex.

10:30–10:45 — B.O. BENGTTSSON: The evolutionary stability of early meiotic behaviour.

10:45–11:00 — J. MAYNARD SMITH: The significance of sex in prokaryotes.

11:00–11:15 — A. DE VISSER, R. HOEKSTRA and H. VAN DEN ENDE: The evolution of sex: experiments in progress with the unicellular alga *Chlamydomonas*.

11:15–11:30 — M. DOEBELI: Some effects of genetic variability on population dynamics.

11:30–11:45 — S.E. KELLEY: Sex and viruses in *Anthoxanthum odoratum*.

11:45–12:00 — S. RICHERD, C. DESTOMBE and M. VALÉRO: Reproductive cycles and the evolution of sex: the question of haploid and diploid phases alternation.

First afternoon session: 14h–16h

14:00–16:00 — Round table with R. MICHOD, J. MAYNARD SMITH, G. BELL, S. STEARNS, B.O. BENGTTSSON and S. JAIN.

POSTERS:

25.181 — G.-D. GUÉX, P. BEERLI, A.D. BARBOUR and H. HOTZ: A dynamic model to describe equilibrium conditions in mixed populations of a hemiclinal hybrid and its sexual host in European water frogs.

25.182 — A.B. KOROL and K.G. ILIADI: Recombination increase resulting from directional selection for geotaxis in *Drosophila melanogaster*.

25.183 — B. LARSEN: Reproductive strategies in Arctic plant communities. Trade-off between sexual

- and vegetative reproduction.
- 25.184 — R.D. SEMLITSCH *et al.*: Differences in larval performance among coexisting hemiclones of hybridogenetic water frogs are of similar magnitude as those between hybrids and parental species.

SYMPOSIUM 26:

EVOLUTION AND ETHICS REVISITED

Organized by Michael RUSE and Michel VEUILLE

Friday 27, August

Morning session: 10h–12h

- 10:00–10:40 — M. RUSE: Evolution and ethics.
10:40–11:20 — F. WUKETITS and M. WUKETITS: Human moral behavior — a sophisticated form of altruistic behaviour in social animals.
11:20–12:00 — F. AYALA: Ethics transcends biology.

First afternoon session: 14h–16h

- 14:00–14:40 — R. GRANTHAM: Extracting ethics from cultural evolution.
14:40–15:20 — S.C. STEARNS: The ethics of biodiversity.
15:20–16:00 — D. GRAUR and M. GRAUR: Conditions for implementation and genetic consequences of four types of eugenic programs.

SYMPOSIUM 27:

THE USE OF MORPHOLOGICAL DISTANCE IN THE STUDY OF EVOLUTION

Organized by Richard REYMENT and Jean-Christophe AUFFRAY

Monday 23, August

Morning session: 10h–12h

- 10:00–10:15 — R. REYMENT and J.-C. AUFFRAY: Introduction and presentation.
10:15–10:45 — F.L. BOOKSTEIN: Morphometrics and "morphological distances".
10:45–11:00 — Discussion on F.L. Bookstein's communication.
11:00–11:20 — R. REYMENT: Evolution of the multivariate shape phenotype.
11:20–11:40 — S. REIG: Comparison of traditional and landmark based results in a morphometric study.
11:40–12:00 — Discussion on the first session communications.

First afternoon session: 14h–16h

- 14:00–14:20 — M. CORTI, C. FADDA, E. CAPANNA, E. SIMSON and E. NEVO: Shape changes and adaptation of the skull during speciation of the mole rat *Spalax ehrenbergi*: geometric morphometrics.
14:20–14:40 — J.-C. AUFFRAY, S. RENAUD, P. ALIBERT and E. NEVO: Fluctuating asymmetry in the "actively" speciating mole rat *Spalax ehrenbergi*: bilateral shape comparison and

traditional approaches.

- 14:40–15:00 — H. LEIRS, W. VERHEYEN, R. VERHAGEN, W. WENDELEN and L. DE BRUYN: Morphometrical problems due to variable growth seasonality in *Mastomys* rats.
15:00–15:20 — C.P. KLINGENBERG: Ontogeny of within-group variation: shifting standards for morphological distance.
15:20–15:35 — Poster presentation.
15:35–16:00 — Discussion on the second session communications.

POSTERS:

- 27.185 — A. BARBOSA: Scanning behaviour of visual- and tactile-feeding waders (Charadrii: Aves).
27.186 — A. BARBOSA: Evolution of bill and leg morphology in waders (Charadrii: Aves).
27.187 — T. CHASSOVNIKAROVA and S. GERASIMOV: Morphometric and epigenetic distances within genus *Apodemus*.
27.188 — S. GERASIMOV, R. KANEVA, F. POITEVIN and J. CATALAN: Craniometric distances and discriminant keys for determination of three species of genus *Crocodylus*.
27.189 — V. KOUFOPANOU and G. BELL: Developmental mutants of *Volvox*: does mutation recreate phylogenetic diversity?
27.190 — D. RASSKIN-GUTMAN, A.D. BUSCALIONI and J.J. MORATALLA: Theoretical morphospace of trydactyl dinosaur footprints using d'ARCYGRAPH. Evolutionary implications.

SYMPOSIUM 28:

POPULATION AND EVOLUTIONARY BIOLOGY OF MICROBES

Organized by Bruce R. LEVIN and Patrick GRIMOND

Monday 23, August

Morning session: 10h–12h

- 10:00–10:10 — Introduction.
10:10–10:40 — B. LEVIN: The population genetics of multiple antibiotic resistance: traversing the adaptive valleys.
10:40–11:10 — J. MITTLER: Evolution of virulence in temperate bacteriophages.
11:10–11:40 — R. KORONA: Selection-driven divergence of bacterial populations in homogeneous habitat.
11:40–12:00 — Poster presentation.

First afternoon session: 14h–16h

- 14:00–14:30 — M. TIBAYRENC: Parasitic protozoa and the clone concept.
14:30–15:00 — P. SYKORA: Macroevolution of bacterial plasmids: a model for plasmid speciation.
15:00–15:30 — V. PERROT: What can microbes tell us on the evolution of haploidy and diploidy?
15:30–16:00 — P. WIENER: Allelopathy and resource competition in a microbial system.

Second afternoon session: 16h30–18h30

- 16:30–17:00 — D. TONKYN and N. MOORE: Spatial and temporal dynamics of a genetically engineered root-colonizing bacterium.
17:00–17:30 — R. ANTIA and M. NOWAK: The within-host dynamics of antigenically varying parasites.
17:30–18:00 — T.E. DOLAN and R.B. DOLAN: Population structure of *Pythium* and *Saprolegnia* species in a small pond.
18:00–18:30 — General discussion.

POSTERS:

- 28.191 – S. JAMANN, A. NONFOUX, M.P. FERNANDEZ and A. MOIROUD: Genetic diversity in natural *Frankia* communities: the effect of soil environment.
28.192 – A.S. SADEK: Enhancement of *Bacillus thuringiensis* for field and store applications.
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SYMPOSIUM 29:

GENETIC STRUCTURES

Organized by Marcy K. UYENOYAMA and Denis COUVET

Monday 23, August

Second afternoon session: 16h30–18h30

- 16:30–17:10 — J. DALLAS, V. BAUCHAU and F. BONHOMME: Gene flow and neighbourhood size in Belgian mice.
17:10–17:50 — E. LINDERS, G. MEIJER, B. MEGNEGNEAU, H. TURIN and M.M. VAN DAMME: Variation and population structure of vegetative compatibility of the pathogenic fungus *Phomopsis subordinaria*.
17:50–18:30 — D. HECKEL: Use of RAPDs in populations genetics: genetic aspects of reproducibility, verifiability and bias.

Tuesday 24, August

Morning session: 10h–12h

- 10:00–10:20 — S. SHUSTER and P. SERVICE: Population subdivision and considerations of scale.
10:20–10:40 — M. BROOKES and R. BUTLIN: A simulation model of male dispersal in the small ermine moth *Yponomeuta padellus*.
10:40–11:00 — P. SEPPA: Sociogenetic organization of the two coexisting social forms of the red ant *Myrmica ruginodis*.
11:00–11:20 — A. ESTOUP, J.M. CORNUET and M. SOLIGNAC: Intracolony variability with microsatellite markers in honey bee, *Apis mellifera*.
11:20–11:40 — D. FORCIOLI, G. BENA, R. WATTIER, P. SAUMITOU-LAPRADE and J. CUGUEN: What is behind gynodioecy in the wild beet: a turbulent genome or migration effects?
11:40–12:00 — Poster session.

POSTERS:

- 29.193 – G. KENT *et al.*: Evolutionary comparison of WT1 (Wilms tumour gene).
29.194 – A. MAJOR and K. DOBOLYI: Spatial genetic structure in coexistent populations of *Achillea mobilis* L. and *Achillea ochroleuca* EHRH.
29.195 – J. MULLER: Spatial and temporal variation of clonal groups in two natural *Daphnia* populations.
29.196 – A. SANSOTTA, M. REGLI and M. SBORDONI: A permutational approach in Wright's fixation indices as a tool to analyze genetic structure of populations.
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SYMPOSIUM 30:

**POPULATION STRUCTURE OF PARASITIC PROTOZOA AND FUNGI :
MEDICAL AND EPIDEMIOLOGICAL IMPLICATIONS**

Organized by Francisco J. AYALA, Michel TIBAYRENC and Finn KJELLBERG

Friday 27, August

Morning session: 10h-12h

- 10:00-10:30 — F.J. AYALA: The clonal theory of parasitic Protozoa.
10:30-11:00 — A. BURT, D.A. CARTER, J.W. TAYLOR and T.J. WHITE: Preliminary analysis of nucleotide variation in *Coccidioides immitis* (Fungi: Ascomyceta).
11:00-11:30 — C. PUJOL *et al.*: Genetic structure of a *Candida albicans* yeast population on HIV + patients.
11:30-12:00 — L.C. RANFORD-CARTWRIGHT, H.A. BABIKER, D. CURRIE, D. CHARLWOOD, P. BILLINGSLEY and D. WALLIKER: Frequent cross-fertilisation in natural populations of the human malaria parasite *Plasmodium falciparum*.

First afternoon session: 14h-16h

- 14:00-14:30 — R. CIBULSKIS: The genetic structure of *Trypanosoma brucei* populations and the epidemiology of human sleeping sickness.
14:30-15:00 — B. LEVIN: Recombination rates and the genetic structure of bacterial populations: the clone concept revisited.
15:00-15:30 — F. KJELLBERG: What is clonality in unicellular organisms?
15:30-16:00 — M. TIBAYRENC: Clonality in parasitic protozoa and fungi: evolutionary and medical implications.

POSTERS:

- 30.197 — A.-L. BANULS, F. GUERRINI and M. TIBAYRENC: Biological nature of putative hybrid strains in Peruvian and Equatorial *Leishmania*.
30.198 — M.-P. DUBOIS, D. FERNANDEZ, K. ASSIGBETSE, J.-P. GEIGER and I. RIMBAULT: Genetic diversity analysis of a Sudanese population of *Fusarium oxysporum* sp. *rasinfectum* by RAPD and RFLP.
30.199 — J.-P. DUJARDIN, M. CRUZ, F. LE PONT, F. TARRIEU, R. LEON, R. ECHEVERRIA and M. TIBAYRENC: Allozymes evidence for the existence of sibling species within the main vector of Leishmaniasis in Ecuador, *Lutzomyia trapidoi*.
30.200 — E. EBERT: Local co-adaptation of a microsporidian parasite and its host *Daphnia magna*.
30.201 — J.-P. LAURENT and M. TIBAYRENC: Are clonal variability and biodiversity related to each other in *Trypanosoma cruzi*, the agent of Chagas' disease?
30.202 — M. QUINTEN *et al.*: Study of genetic diversity in *Fusarium oxysporum* sp. *albedinis* Algerian population.
30.203 — J. PEREIRA, J.-P. DUJARDIN and R. SALVATELLA: Isozymic polymorphism of four triatomine species in Uruguay.



SYMPOSIUM 31:

ADVANCES IN MOLECULAR SYSTEMATICS

(Second meeting of the International Society for Biochemical Systematics)

Organized by Valerio SBORDONI, Rory POST and Lutz BACHMANN

Thursday 26, August

Developments in molecular methodologies for systematics and ecology

Morning session: 10h-12h

- 10:00-10:15 — C. JEUNIAUX, J. SالدARRIAGA and M.-F. VOSS-FOUCART: Chitinases as a tool for chitin identification in skeletal structures: application to Priapulida phylogeny.
10:15-10:30 — G. STEINBRUCK: RAPD analysis in general and in the systematics of Ciliates.
10:30-10:45 — L. NIGRO and C. SIMON: Differences in proportion of sites free to vary in animal mitochondrial small subunit ribosomal RNA genes.
10:45-11:00 — D. TAUTZ: The rDNA ITS region as a tool for population genetical and phylogenetic analysis.
11:00-11:15 — S. COOPER and G. HEWITT: Using non-coding DNA sequences to investigate post-glacial expansion and subdivision in the grasshopper *Chorthippus parallelus*.
11:15-11:30 — J. HERMANS and S. MENKEN: Molecular systematics in the study of the evolution of insect host interactions.
11:30-11:45 — M.D. WILSON and R. POST: Integration of morphometric, cytogenetic and molecular techniques: a case study of *Simulium damnosum*.
11:45-12:00 — Poster session.

Detecting molecular boundaries between species

First afternoon session: 14h-16h

- 14:00-14:15 — J. GARDNER: Mitochondrial DNA variation in the marine mussels *Mytilus edulis* and *M. galloprovincialis*.
14:15-14:30 — U. ARNASON: The use of mtDNA sequences for resolving mammalian phylogenetic relationships.
14:30-14:45 — T.H. HSIAO, J.M. PASTEELS and M. ROWELL-RAHIER: Phylogeny of *Chrysolonima* beetles inferred from mtDNA sequence data: correlation with host plant affinity and defensive chemistry.
14:45-15:00 — C. FERRIS, R.P. OLIVER, A.J. DAVY and G.M. HEWITT: Native oak chloroplasts reveal an ancient division across Europe.
15:00-15:15 — D.E. HOWLAND and G.M. HEWITT: Molecular phylogenetics of beetles (Coleoptera) using mtDNA sequence data.
15:15-15:30 — M. TIBAYRENC: Population genetics and the notion of species in parasitic protozoa.
15:30-15:45 — J.R. POWELL: What *Drosophila* phylogenies tell us about evolution?
15:45-16:00 — E.R. SCHMIDT: Chromosome evolution and systematics of chironomids.

Second afternoon session: 16h30-18h30

- 16:30-16:45 — T. HANKELN, H. FRIEDL, P. ROZYNEK and E.R. SCHMIDT: Intron polymorphism in *Chironomus* globin genes: a tool in taxonomy.
16:45-17:00 — W. MAYER, H. KUPFERMANN, K. TRIKOVA, B. GRAHOVAC, X. O'HUIGIN, D. KLEIN and J. KLEIN: Trans-species evolution of MHC-DRB allelic lineages in anthropoid primates.
17:00-17:15 — A. WILMOTTE, A. NELISSEN and R. DE WACHTER: 16S and ITS rDNA sequences in cyanobacterial phylogeny.
17:15-17:30 — R. ABBOTT: Molecular phylogeography of European ragworts (*Senecio*).
17:30-17:45 — L. BACHMANN, J. GUTNECHT, M. RAAB-VETTER and D. SPERLICH: Evolution of satellite DNA in the *Drosophila obscura* group.
17:45-18:30 — Poster session and general discussion.

Evening session: 20h30–22h30

20:30–21:00 — V. SBORDONI: The structure of systematics and the role for molecular studies.

21:00–22:30 — Extraordinary General Meeting (open to non-members).

POSTERS:

31.204 – A.M. AVANZATI, M. BARATTI and F. BERNINI: Speciation among steganacarid mites (Acari, Oribatida) from the Canary Islands.

31.205 – A. CARAPPELLI, P.P. FANCIULLI, F. FRATI and R. DALLAI: Biochemical and molecular data in the diagnosis of species in the genus *Isotomurus* (Insecta, Collembola).

31.206 – E.H. HARLEY: Software for molecular systematics.

31.207 – J.-F. HUMBERT and J. CABARET: Use of the random amplified polymorphic DNA (RAPD PCR) for identification and phylogenetic analysis of nematodes parasite of ruminants.

31.208 – R. VÄINÖLÄ: Phylogeny of the crustacean genus *Mysis*: discordant rates of molecular and morphological evolution in different zoogeographical zones.

31.209 – F. VENANZETTI, D. CESARONI, X. MARIOTTINI and V. SBORDONI: Molecular phylogenies and speciation rates in *Dolichopoda*: evidence from mitochondrial DNA.

31.210 – C. WADE, P.E.M. MARTIN and R.J. POST: Has the MSP gene intron been lost or gained during nematode evolution?

FREE SESSION

POSTERS:

FS.211 – M. BEJI and D. COMBES: Multivariated analyses of auto-tetraploidisation incidence on the morphological and reproductive variability at some *Hedysarum coronarium* populations.

FS.212 – I. BERRAT, C. SCAPOLI and C. NESTI: Possible identity of transcription and translation signals in early vital systems.

FS.213 – P. GARCIA, M. EDGELL and F. BONHOMME: Estimation of turnover rates in the L1 family of transposable elements in mice.

FS.214 – A. KATAKI and P. BOURSOT: An assesement of DGGE and SSCP for application in population genetics.

FS.215 – C. POTEAUX and M. FISSIER: Brown trout biogeography and management.

FS.216 – S. SALVIDIO: Population stability in the European plethodontid salamander *Speleomantes ambrosii*.

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**SEA, ..., and
FUN !**

&

Situation Maps

Evolution 93

4th Congress of the European Society for Evolutionary Biology
Montpellier, August 22—28th, 1993

Restaurants in Montpellier

There are many excellent restaurants in Montpellier and its surroundings, this list gives some of the better-known ones where you would be advised to book a table in advance, especially for a large group. But if your group is small you may like to wander through the old town until you find a restaurant that takes your fancy.

If you go out to eat before 8 pm you will probably be alone! But after that the restaurants fill up quickly, so if you do not have a reservation be there around 8. (In summer a bit later, perhaps.)

Prices are moderate compared to most countries, over 300F for dinner (including a good local wine) is considered expensive here. Incidentally the local wines are very reasonable, and there are some very good ones. Top class Bordeaux and Bourgogne wines are expensive everywhere.

Le Jardin des Sens — 11 av. Saint Lazare - 67 79 63 38 - Elegant gourmet restaurant (2 stars in Guide Michelin). Expensive.

Le Chandelier — 3 rue Leenhardt - 67 92 61 62 - High-class gourmet restaurant (One star in Guide Michelin). In town, about 10 mins walk from center. Expensive.

Le Mas — Route de Vauguières - 67 65 52 27 - First class restaurant situated in an old farmhouse about 10 mins drive from town. Lovely garden for an aperitif in summer. Expensive.

Les Agapes — Esplanade de l'Europe, Antigone - 67 22 44 14 - Elegant gourmet restaurant beside the Lez in Antigone area. Expensive.

La Réserve Rimbaud — 820 av. de Saint Maur - 67 72 52 53 - Old comfortable restaurant with a beautiful terrasse overlooking the river Le Lez. Expensive.

Isadora — 6 rue du Petit Scel - 67 66 25 23 - Comfortable fairly small cellar restaurant, good food. Expensive.

Le Menestrel — Impasse Perrier, Place de la Préfecture - 67 60 62 51 - Excellent restaurant in a beautifully converted 12th century grain store in center of town. Medium price.

Le Palais Européen — Esplanade de l'Europe - 67 22 25 00 - Elegant brasserie, nice view to the river Le Lez from lovely terrace. Good food and regional wines. Medium price

L'Olivier — 12 rue Aristide Ollivier - 67 92 86 28 - Excellent small restaurant close to hotel Métropole. Medium price.

Le Louvre — 2 rue de la Vieille - 67 60 59 37 - Excellent small restaurant in city center. Medium price.

Brasserie du Théâtre — 22 bd Victor Hugo - 67 58 88 80 - Elegant brasserie with lovely terrace in summer, good food. Medium price. Central location beside Opera, open late.

Le Vieil Ecu — 1 rue des Ecoles Laïques - 67 66 39 44 - Good reasonably priced restaurant in an old chapel in the old town. Can be very crowded.

Le Vieux Four — 59 rue de l'Aiguillerie - 67 60 55 95 - Cosy reasonably priced cellar restaurant in the old town.

l'Assiette au Boeuf — 4 rue de Verdun - 67 92 67 16 - Popular reasonably priced restaurant in the center. Fast service. Open late.

Sphinx in Palavas — Quai Paul Cuneq - Palavas - 67 68 00 21 - The no.1 fish restaurant in the vicinity. Expensive. (See Palavas below.)

Sightseeing

Montpellier

The Old Town — The narrow streets of the old town make a pleasant place to walk either during the day when there are many small shops to stop in or during the evening on the way to a restaurant.

Place de la Comédie — This is the large 'square' in front of the Opera. The center of life in Montpellier. Here you can sit out on the square and take an aperitif, a meal, or just a coffee, at almost any time of the day or night and just watch the world go by.

The Cathedral — The 12th century gothic cathedral of St Peter in the old town is worth seeing.

The Medical Faculty — This claims to be the oldest continuously operating medical faculty in Europe. It is centered in a beautiful old building, that used to be a monastery, right beside the cathedral. Its anatomical museum is not for the squeamish!

Chateau Flaugergues — This is a pleasant way to pass the time in the evening between leaving the plant and going to dinner. It is a nearby chateau where they will give you a guided tour in English, and afterwards you can taste and, if you like, buy the wines they produce. This takes 1 - 2 hours and costs about 45F / person (min 450F).

Outside Montpellier

The Beach — The nicest sandy beach nearby is between La Grande Motte and Carnon. Bathing season is usually from beginning of May until end of September.

Avignon — An hours drive in the direction of Marseille (and La Gaude!) lies the historic city of Avignon. For nearly a hundred years this was the center of Christianity when the popes moved here from Rome in the 14th century. The papal palaces, the cathedral and many other buildings from that time can be visited, plus the magnificent walls that still surround the city.

Pont du Gard — Not far from Avignon you can walk across this bridge that carried the Roman aqueduct to Nimes. This masterpiece of Roman engineering is still in excellent condition after 2000 years.

Nimes — Everybody has heard of the Coliseum in Rome. Not everybody knows that the one in Nimes is in much better condition and in fact is still in use! Bullfights are still held here, where Roman gladiators once fought. See also Maison Carrée, a beautifully proportioned Roman temple.

Palavas — This small fishing village has become a popular tourist resort, and is THE place to eat fish. About 20 mins by car from Montpellier.

Shopping

There are several large shopping centers and supermarkets south of Montpellier on the road to Carnon, but you will need a car to reach these.

In Montpellier the Polygone shopping center has every kind of shop you could possibly want and most of them stay open until 7 pm in the evening. There is also a high-class department store, Galerie Lafayette. The INNO supermarket stays open until 8 pm and has an excellent selection of good food and wines. The Polygone is right beside (between) hotels Sofitel and Altea, and about 10 mins walk from Residentiale. Pullman is part of it.

University Restaurant

PHARMACY:
BLAISE-ROQUES
Quartier Vert-Bois
1444 route de Mende
Tél.: 67 52 62 50

Bus stop
Line 5
Verbois

Bus stop
Line 5
Faculté Lettres

DENTIST:
Stephen FONTÈS
528 route de Mende
Tél.: 67 61 09 85

PHYSICIAN:
Christian CHAIX
510 route de Mende
Tél.: 67 52 24 24

Congress Site
Université Montpellier II
(Sciences et Techniques du
Languedoc)

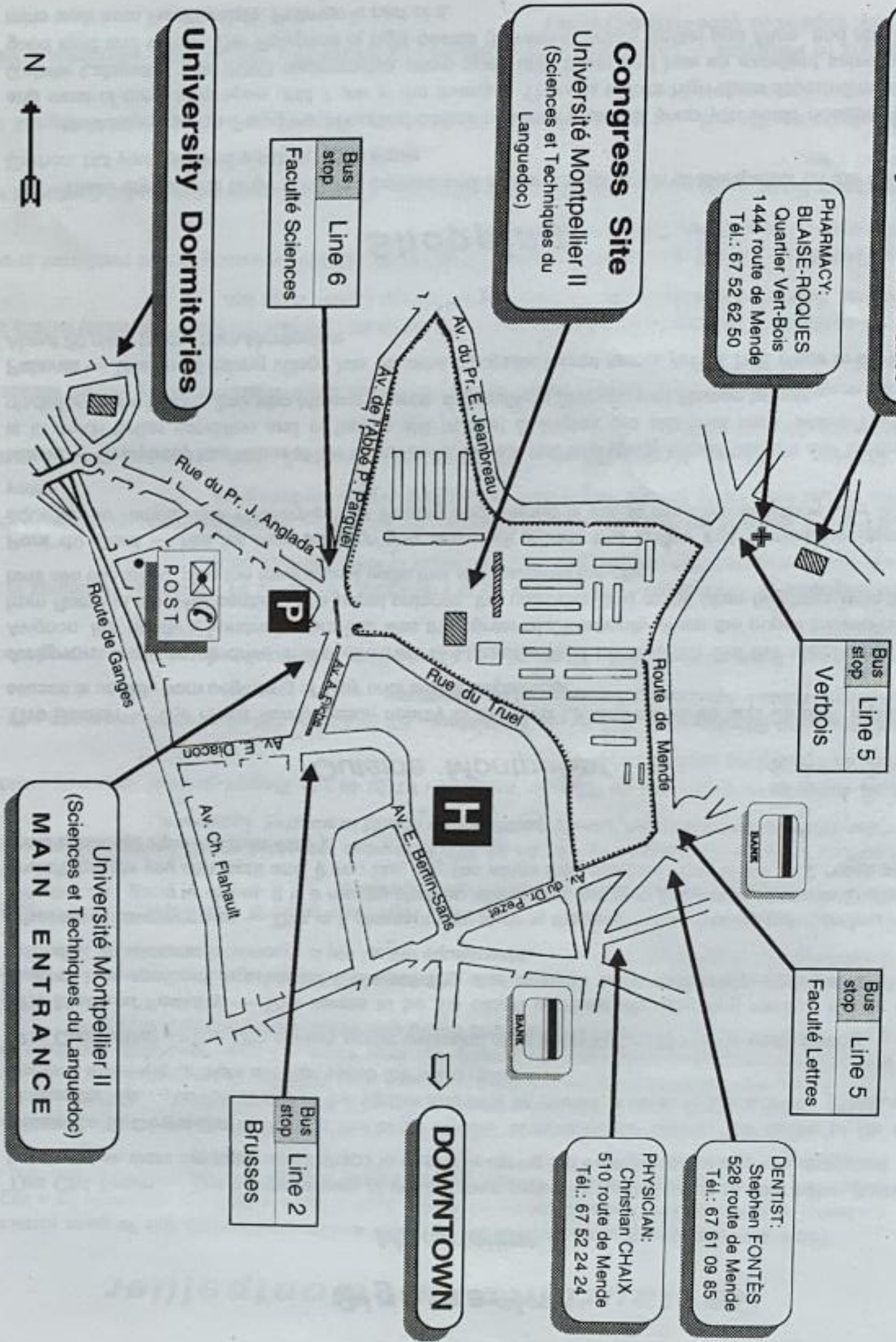
Bus stop
Line 6
Faculté Sciences

Bus stop
Line 2
Brusses

University Dormitories



Université Montpellier II
(Sciences et Techniques du Languedoc)
MAIN ENTRANCE



Situation Map:
Conference Buildings

