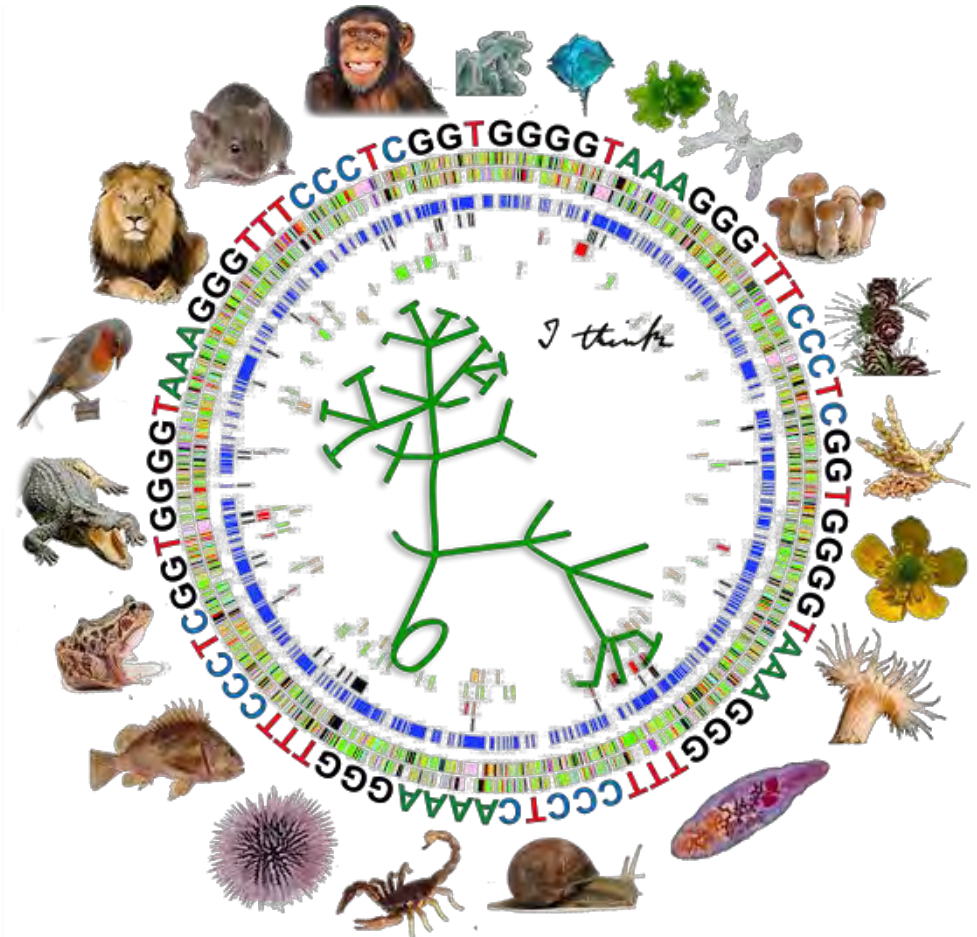


Glimpses of Project Small Variations For Big Changes



By: Dr. Nusrat Jabeen & Dr. Mushtaq Hussain

"Small Variations for Big Changes" Project Win Int'l Grants

The Project "Small Variations for Big Changes" developed by Dr. Mushtaq Hussain from Institute of Biological, Biochemical and Pharmaceutical Sciences (IBBPS), Dow University of Health Sciences (DUHS) and Dr. Nusrat Jabeen from Department of Microbiology, Federal Urdu University of Arts Science and Technology (FUUAST) won two international grants. The funding agencies are European Society of Evolutionary Biology (ESEB) and United States Education funds for Pakistan (USEFP). The Project

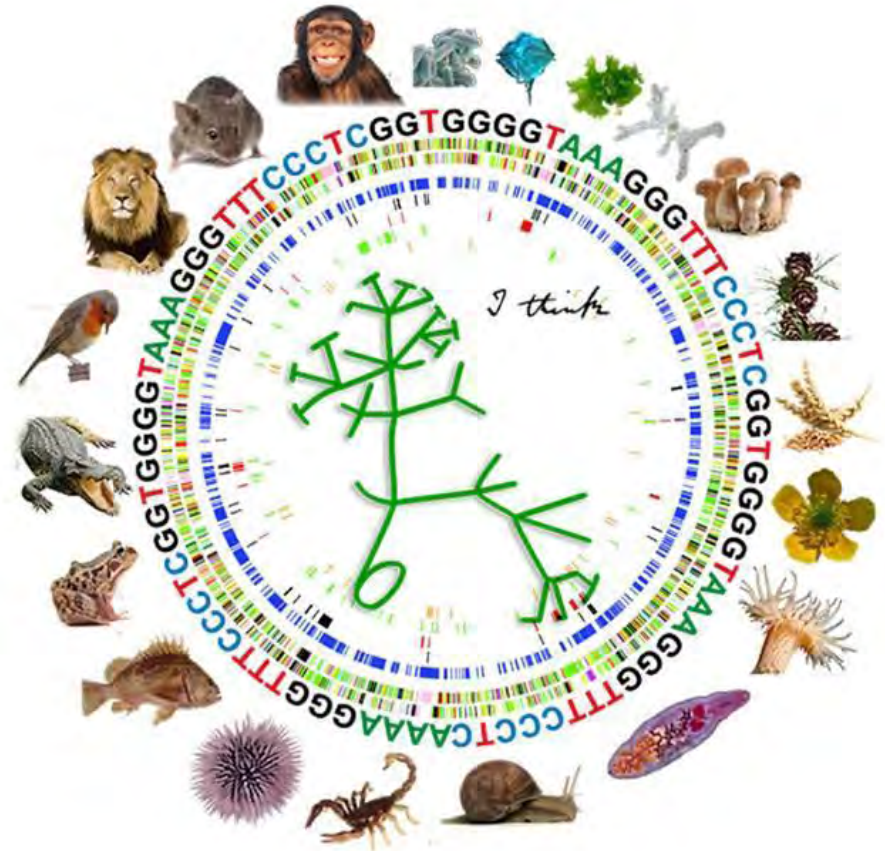
comprises phylogenomic studies of developmental genes in plants and animal. In addition, molecular evolution of the pathogens associated with the Pakistani population will also be explored in the same grant.

The Project also includes holding national and international level seminar and workshops to develop public understanding of evolutionary biology and its application in modern biology and medicine.

FIS

Foundation for Integrated Sciences

In September 2014, Building a
Foundation for Integrated Sciences



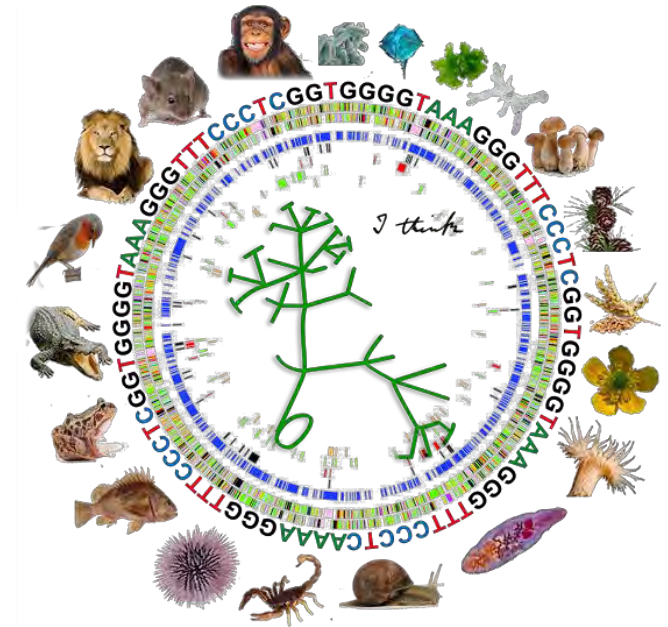
Team FIS during Preparation of Seminar Series





Small Variations For Big Changes

(Inauguration at DIMC on 7th-8th November 2014 at Dow International Medical College Karachi)
(DIMC)



Small Variations For Big Changes

(Inauguration at DIMC on 7th-8th November 2014)



Vice Chancellor, Dr. Masood Hameed, Dow University of Health Sciences (left) , Dr. Nusrat Jabeen (PI from FUUAST, Introducing the Project) , Dr. Mushtaq Hussain (bottom middle, PI from DUHS, Delivering Talk on Evolution) & Dr. Iqbal Chaudhary (Right) from HEJ Research Institute Karachi , expresses their views during the Inauguration ceremony of the Project "SMALL VARIATIONS FOR BIG CHANGES"

Small Variations For Big Changes (7th-8th November 2014 at DIMC)



Dr. M.Iqbal Chaudhary & Dr. Masood Hameed Khan presenting the Shield among Dignitaries and FIS team Members

Small Variations For Big Changes (7th-8th November 2014 at DIMC)

Team FIS



Small Variations For Big Changes (7th-8th November 2014 at DIMC)

Poster Exhibition



Small Variations For Big Changes (7th-8th November 2014 at DIMC)

Team FIS at Poster Exhibition



Small Variations For Big Changes (7th-8th November 2014 at DIMC)

Work Shop on Bioinformatics



Small Variations For Big Changes (7th-8th November 2014 at DIMC)

In News



Research topic

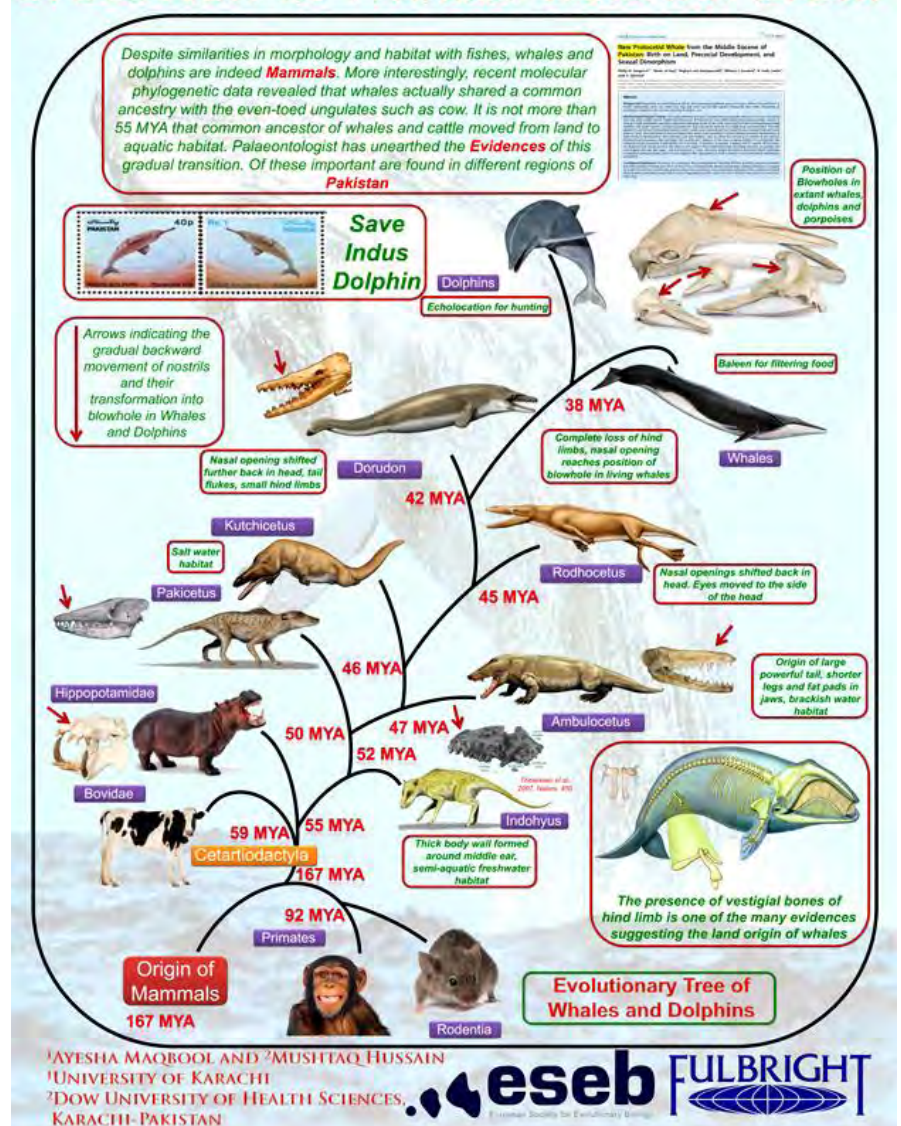
The workshop on bioinformatics was held after the seminar. Bioinformatics is an academic field where technology, engineering, mathematics and statistics have to work together to understand biological data. It includes the practical implementation of the tools and techniques used in scientific research. At the workshop, Prof Hussain focused on the study and application of sequence data mining, genome browsers, genetic sequence alignments, evolutionary model selection, phylogenetic reconstruction, phylogenetic analysis, protein modeling, protein structure assessment, protein model validation, molecular docking and structural phylogenomics.

“Cows and whales at one point in time were related to each other. There is genetic evidence that suggests this”
DUHS professor Dr Mushtaq Hussain

Following the presentations, the participants, including PhD, MPhil students and other medical students interested in evolution and scientific research, tried what they learnt on different computer softwares. The workshop helped the participants understand biology and evolution better by using statistics and mathematical data.

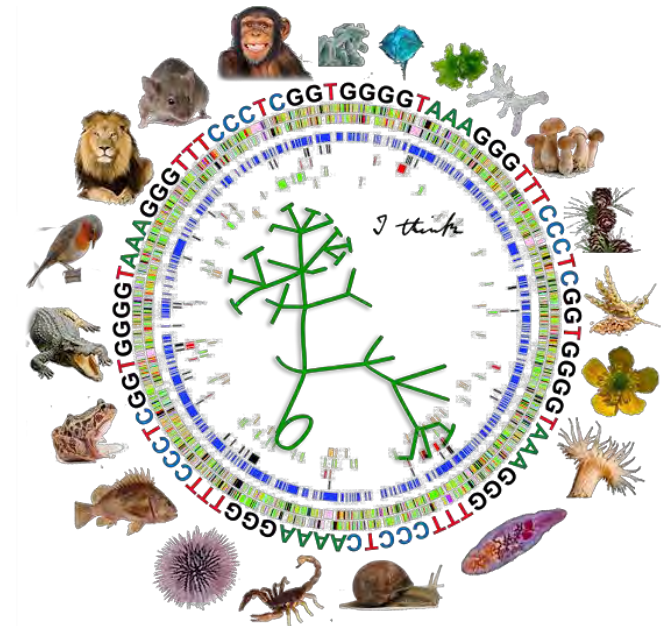
EVOLUTION OF WHALES: PAKISTAN STORY

EVOLUTION OF WHALES: PAKISTAN STORY





Small Variations For Big Changes (10th-11th December 2014 at Dow Medical College Karachi) (DMC)

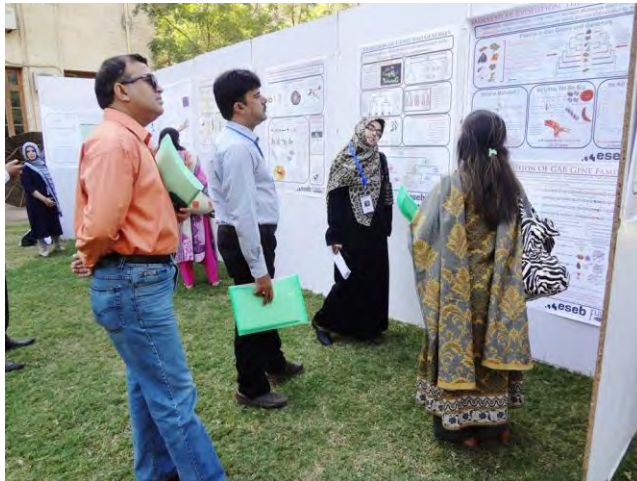
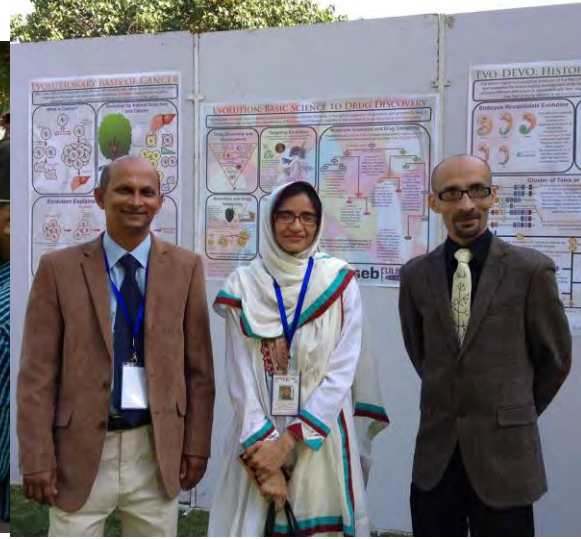


Small Variations For Big Changes (10th-11th December 2014 at DMC)



Principal DMC, Dr. Junaid Ashraf (top right), Dr. Mushtaq Hussain (top left) during his Talk on Evolution.

Small Variations For Big Changes (10th-11th December 2014 at DMC) Poster Exhibition



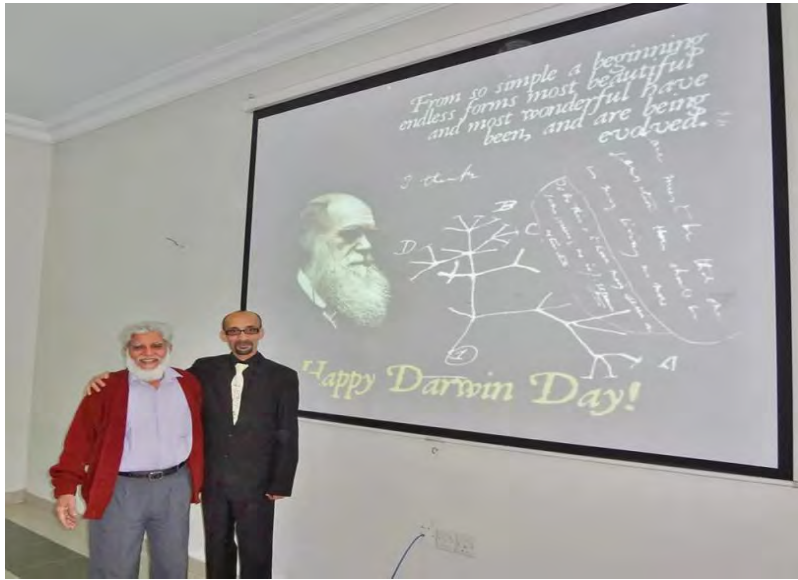
Small Variations For Big Changes (10th-11th December 2014 at DMC) Workshop



Small Variations For Big Changes (10th-11th December 2014 at DMC) **Team FIS**



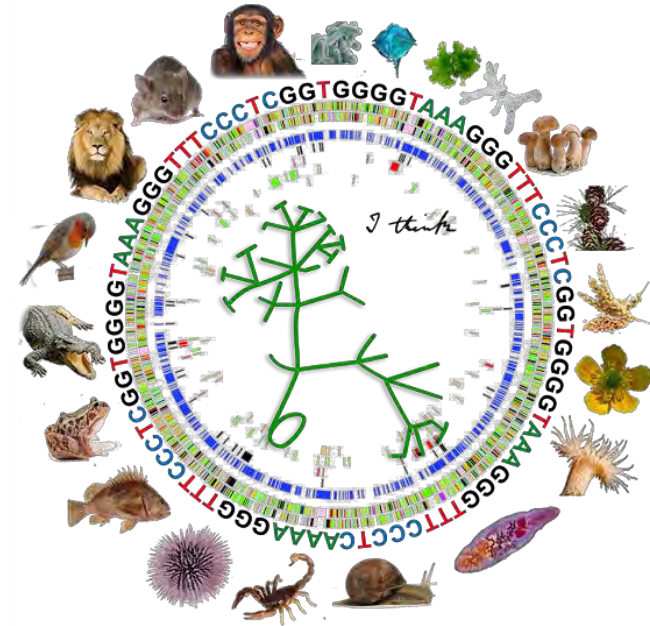
Team FIS Celebrating Darwin's Day





Small Variations For Big Changes

(1st-5th March 2015 at Shah Abdul Latif University,
Khairpur Sindh)
(SALU)



Small Variations For Big Changes

(1st-5th March 2015 at Shah Abdul Latif University,
Khairpur Sindh)
(SALU)



Excited Team FIS, before leaving Karachi to Khairpur

Small Variations For Big Changes

(1st-5th March 2015 at Shah Abdul Latif University, Khairpur Sindh)



Small Variations For Big Changes

(2nd -3rd March 2015 at **Shah Abdul Latif University, Khairpur Sindh**)



Vice Chancellor, SALU, Dr. Parveen Shah (top left), Dean faculty of Science Dr. Yasmeen Faiz Kazi (top right), Expressing their views on seminar. Dr. Mushtaq Hussain (bottom left) during his talk on evolutionary medicine

Small Variations For Big Changes

(2nd -3rd March 2015 at Shah Abdul Latif University, Khairpur Sindh),
Souvenir & Certificate Distribution



Small Variations For Big Changes

(2nd -3rd March 2015 at Shah Abdul Latif University, Khairpur Sindh), **Poster Exhibition**



Small Variations For Big Changes

(2nd -3rd March 2015 at Shah Abdul Latif University, Khairpur Sindh), **Workshop**



Small Variations For Big Changes

(Chill time of Team FIS at SALU)





At Faiz Mahal, Khairpur



At Kort Digi Fort



At Mohenjo-Daro



At SALU Botanical Garden

Small Variations For Big Changes

(2nd -3rd March 2015 at Shah Abdul Latif University, Khairpur Sindh)

In SALU News

blogs.salu.edu.pk/post/TWO-DAY-SEMINAR-POSTERS-EXHIBITIONS-ON-SMALL-VARIATION-FOR-BIG-CHANGES-AND-WORKSHOP-ON-“BIOINFORMATICS: TOOLS AND TECHNIQUES IN MODERN RESEARCH” CONCLUDES

Shah Abdul Latif University, Khairpur

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PARVEEN SHAH

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AND NIHCR, CENTRE OF
EXCELLENCE, QAUID-I-AZAM
UNIVERSITY, ISLAMABAD

A DELEGATION OF
OMBUDSMAN OFFICE SINDH
CALLS ON DR. PARVEEN
SHAH

SALUTA News

TWO M. PHIL SEMINARS
HELD IN THE DEPARTMENT
OF CHEMISTRY

FIRST SEMESTER
EXAMINATIONS 2015
STARTS

55TH MEETING OF ADVANCE
STUDIES & RESEARCH
BOARD HELD

SEMESTER EXAMS WILL
START FROM FRIDAY, 8TH
MAY

PRESS CONFERENCE ON THE
ACHIEVEMENTS OF SALU
HELD

MODEL EXHIBITION HELD
AT DEPARTMENT OF
ZOOLOGY

TWO-DAY SEMINAR, POSTERS EXHIBITIONS ON SMALL VARIATION FOR BIG CHANGES AND WORKSHOP ON “BIOINFORMATICS: TOOLS AND TECHNIQUES IN MODERN RESEARCH” CONCLUDES

March 5, 2015 at 10:32 AM



Prof. Dr. Parveen Shah, Vice Chancellor, SALU, Khairpur, Prof. Dr. Miandad Zardari, Pro-Vice Chancellor, Prof. Dr. Yasmeen Faiz Kazi, Prof. Dr. Nisar Ahmed Kanhar and others speak in the seminar and workshop held in the Department of Microbiology

Two-Day Seminar, Posters Exhibitions on Small Variation for Big Changes and Workshop on “*Bioinformatics: Tools and Techniques in Modern Research*” organized by Department of Microbiology in collaboration with Federal Urdu University of Science & Technology and DOW University of Medical & Health Sciences, Karachi sponsored by European Society for Evolutionary Biology and Fulbright USA concluded at Shah Abdul Latif University, Khairpur. Prof. Dr. Parveen Shah, Vice Chancellor, SALU, Khairpur presided over the inaugural session.

Enter search term

Month List

2012

October (9)

November (16)

December (16)

2013

January (13)

February (15)

March (21)

April (16)

May (11)

June (11)

July (11)

August (8)

2014

February (16)

March (23)

April (22)

May (21)

June (19)

July (11)

August (15)



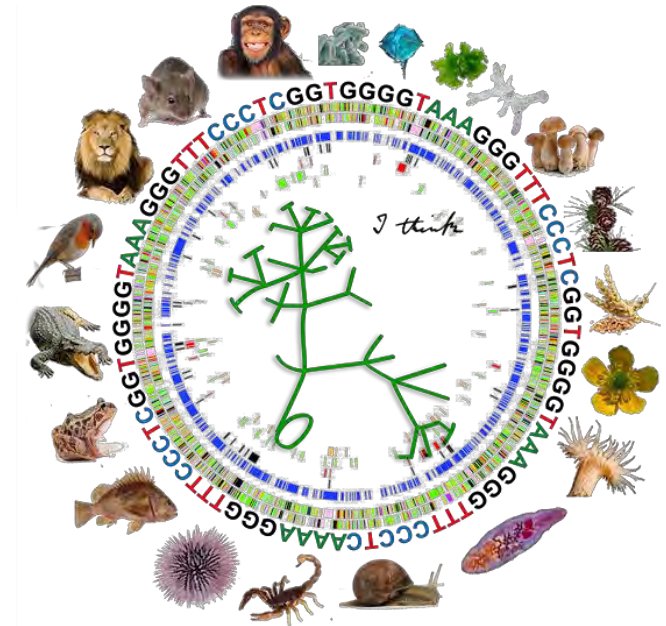
Small Variations For Big Changes

19th -20th March 2015 at

Federal Urdu University of Arts, Science & Technology, Karachi
(FUUAST)



Federal Urdu University
of Arts, Science and Technology



Small Variations For Big Changes

19th -20th March 2015 at
Federal Urdu University of Arts, Science & Technology, Karachi



Dean Science, FUUAST, Dr. Arif Zubair (top left), expressing his views. Dr. Zaheerul Haq Qasmi (top middle), PCMD-HEJ & Dr. Mushtaq Hussain (top right) during their talk at FUUAST

Small Variations For Big Changes 19th -20th March 2015 at, Federal Urdu University of Arts, Science & Technology, Karachi **Poster Exhibition**



Small Variations For Big Changes 19th -20th March 2015 at, Federal Urdu University of Arts, Science & Technology, Karachi **Workshop**



Small Variations For Big Changes 19th -20th March 2015
at, Federal Urdu University of Arts, Science & Technology, Karachi
Participants after certificate distribution



Small Variations For Big Changes 19th -20th March 2015 at, Federal Urdu University of Arts, Science & Technology, Karachi In News

