

International Workshop on Evolution in the Time of Genomics



7 – 9 May 2012 | Venice, Italy
Istituto Veneto di Scienze, Lettere ed Arti
Palazzo Franchetti

Programme

7 May | 8 May | 9 May

Monday, 7 May

Session 1

Some basic issues in evolution: Neutralist vs. selectionist view; adaptive vs. non-adaptive evolution

9:00 - 9:30

Werner Arber "Molecular mechanisms of genetic variation as revealed by microbial genetics"

09:30 - 10:00

Tomoko Ohta "Drift and selection in the light of epigenomics"

10:00 - 10:30

Saitou Naruya "Neutrality as egalitarian view of genome evolution"

10:30 - 11:00

Coffee break

11:00 - 11:30

Peter/Rosemarie Grant "Evolution viewed from the environment"

11:30 - 12:00

Giorgio Bernardi

12:00 - 12:30

Adam Eyre-Walker "A resolution of the mutation load paradox in humans"

12:30 - 13:00

Wen Hsiung Li

Inheritance of acquired characters

15:00 - 15:30

Daniel Jarosz "Protein folding, environmental stress, and the evolving relationship between genotype and phenotype"

15:30 - 16:00

Eugene Koonin "Underappreciated contribution of horizontal gene transfer in the evolution of eukaryotes"

16:00 - 16:30

Mark Ptashne "Basic models tell us more than we can at first know" -Karl Popper

16:30 - 17:00

Jim Shapiro "Rethinking the (Im)possible"

17:00 - 17:30

Coffee break

Mobile elements and genome evolution

17:30 - 18:00

Norihiro Okada "Sensory drive speciation in cichlid fishes"

18:00 - 18:30

Jerzy Jurka "Impact of transposable elements on population diversification and genome evolution"

18:30 - 19:30

Opening of the Poster Sessions

Tuesday, 8 May

Session 2

Evolution and developmental biology

9:00 - 9:30

Eric Davidson

09:30 - 10:00

Walter Gehring "The evolution of vision"

10:00 - 10:30

TBC

10:30 - 11:00

Coffee break

11:00 - 11:30

Takashi Gojobori

11:30 - 12:00

Shozo Yokoyama "Synthesis of experimental molecular biology & evolutionary biology"

12:00 - 13:00

Short communications

Mitochondrial evolution

15:00 - 15:30

Cecilia Saccone

15:30 - 16:00

Douglas Wallace "The bioenergetic origins of complexity and disease"

16:00 - 16:30

Bill Martin

16:30 - 17:00

Coffee break

17:00 - 17:30

Short communication

Wednesday, 9 May

Session 3

Gene expression and genome variation

9:00 - 9:30

Gary Felsenfeld "Chromatin boundaries, gene expression and long range interactions in the nucleus"

09:30 - 10:00

Daniel Hartl "Evolutionary epigenetics of the Y chromosome"

10:00 - 10:30

Tal Dagan

10:30 - 11:00

Coffee break

11:00 - 11:30

Fernando Alvarez-Valin

11:30 - 12:00

Aoife Mc Lysaght "Evolution of dosage-balanced genes"

12:00 - 12:30

David Haussler "Three periods of regulatory innovation during vertebrate evolution"

12:30 - 13:00

Toshimichi Ikemura "Powerful visualization of regional genomic signatures"

Directing evolution

15:00 - 15:30

Hamilton Smith "A synthetic approach to making a minimal bacterial cell"

15:30 - 16:00

Marc van Montagu "Evolution in the Plant Kingdom and the difficulty to communicate science"

16:00 - 16:30

Coffee break

16:30 - 17:30

Short communications

Closing session

17:30 - 18:30

TBC

18:30 - 19:00

General discussion