



DiBio
Dipartimento di Biologia

2014
1984

30

First Scientific Retreat of the Department of Biology

**30 years from foundation
1984-2014**

February 26-27, 2015

Aula Magna - Vallisneri Building
v.le Trieste, 3 - Padova

Program



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

Thursday, February 26

- 13.30 Registrazione
14.00 Saluto del Prof. Gerolamo Lanfranchi, Direttore del Dipartimento di Biologia
14.05 Proiezione
14.15 Saluto del Prof. Giuseppe Zaccaria, Magnifico Rettore dell'Università di Padova

Session 1 – Model organisms to study cell signalling - Chairman: Luca Scorrano

- 14.30 - 15.15 Conference
Massimo Zeviani, MRC Mitochondrial Biology Unit and University of Cambridge, UK
New mitochondrial disease genes and mechanisms
- 15.20 - 15.40 Presentation 1
Tatiana Varanita
The mitochondria shaping protein Optic Atrophy 1 counteracts cellular damage and controls metabolism in vivo
Research Unit: Biochemistry, Biology and Physiopathology of Mitochondria
 - 15.40 - 16.00 Presentation 2
Luigi Leanza
Selective killing of cancer cells by modulation of ion channels: from in vitro to in vivo models
Research Unit: Biochemistry
 - 16.00 - 16.20 Presentation 3
Nicola Franchi
Innate immunity in Tunicates
Research Unit: Developmental Biology and Morphogenesis
 - 16.20 - 16.40 Presentation 4
Andrea Vettori
Generation and application of transgenic reporter lines to study signaling pathways in zebrafish
Research Unit: Regulative Biology and Translational Genetics
 - 16.40 - 17.00 Presentation 5
Gabriella Mazzotta
Cryptochrome and the temporal control of visual plasticity in Drosophila melanogaster
Research Unit: Neurogenetics and Chronobiology

17.00 - 17.20 coffee break

Session 2 – Evolution & Ecology - Chairman: Andrea Pilastro

- 17.20 - 17.40 Presentation 6
Telmo Pievani
Two kinds of exaptation
Research Unit: Philosophy and History of Life Sciences
- 17.40 - 18.00 Presentation 7
Clelia Gasparini
Sex in the tank: what guppies can tell us about sexual selection and sexual conflict before and after mating
Research Unit: Ecoetology and Evolutionary Biology
- 18.00 - 18.20 Presentation 8
Leonardo Congiu
Sturgeon conservation: from ex-situ planning to next-generation sequencing
Research Unit: Molecular Ecology
- 18.20 - 18.40 Presentation 9
Gianfranco Santovito
New perspectives in the study of the antioxidant defences in Antarctic fish: the peroxiredoxins
Research Unit: Environmental Physiology and Experimental Zoology

- 18.40 - 19.00 Presentation 10
Marco Munari
Combined effects of seawater acidification and other stressors in marine bivalves at different stages of their life-history
Research Unit: Marine Ecology
- 19.00 - 19.20 Presentation 11
Maurizio G. Paoletti
Sustainable use of biodiversity? Which food, which strategies to feed the 9 billion humans in 2050?
Research Unit: Ecology of Biodiversity and Sustainability

19.20 drinks & snacks

Friday, February 27

Session 3 – Physiopathology & Molecular genetics - Chairman: Rodolfo Costa

- 08.30 - 08.50 Presentation 12
Elena Stocco
In vitro assessment of a novel composite scaffold for articular cartilage restoration
Research Unit: Biology of Endothelial Cells and Regeneration
- 08.50 - 09.10 Presentation 13
Elisa Palumbo
Understanding DNA replication dynamics in the mammalian genome, and in loci specifically involved in genetic instability
Research Unit: Cytogenetics and Molecular Genetics
- 09.10 - 09.30 Presentation 14
Giovanni Vazza
Deciphering the genetic landscape of Schizophrenia and Bipolar Disorder: genomic approaches on a population-based cohort.
Research Unit: Human Molecular Genetics
- 09.30 - 09.50 Presentation 15
Marco Bisaglia
Dopamine and oxidative stress in Parkinson's disease: is an antioxidant therapy valuable?"
Research Unit: Biophysics, Molecular and Cellular Physiology
- 09.50 - 10.10 Presentation 16
Tommaso Pozzobon
Angiogenesis in secondary syphilis: role of the bacterioferritin TpF1, antigen of Treponema pallidum
Research Unit: General Pathology

10.10 - 10.40 coffee break

Session 4 – Genomics & Bioinformatics - Chairman: Giorgio Valle

- 10.45 - 11.30 Conference
Stefano Gustincich, Neurobiology sector, SISSA, Trieste
SINEUPS: a new functional class of natural and synthetic antisense long non-coding RNAs that activate translation
- 11.30 - 11.50 Presentation 17
Francesco Filippini
From bioinformatic design to regenerative medicine: enhanced neuronal differentiation combining biomimetic peptides and nanocomposite scaffolds
Research Unit: Molecular Biology
- 11.50 - 12.10 Presentation 18
Nicola Vitulo
A deep survey of alternative splicing in grape
Research Unit: Genomics and Bioinformatics
- 12.10 – 12.30 Presentation 19
Francesco Chemello
MiRNA-mRNA networks at single cell level reveal the role of specific miRNAs in the regulation of metabolism of muscle fibers
Research Unit: Functional Genomics

- 12.30 - 12.50 Presentation 20
Maddalena Mognato
MicroRNAs in the cellular response to stress
Research Unit: Cell Biology

13.00 - 14.00 lunch

Session 5 – Plant Sciences - Chairman: Giorgio Casadoro

14.15 - 15.00 Conference
Lucia Colombo, Department of Biosciences, University of Milano
From Ovule to Seed: the female contribution

- 15.00 - 15.20 Presentation 21
Michela Zottini
Organelles as critical players in plant cell communication network
Research Unit: Plant Physiology and Molecular Biology
- 15.20 - 15.40 Presentation 22
Alessandro Alboresi
*Molecular analysis of *Nannochloropsis gaditana* for the production of biofuels and high added value molecules*
Research Unit: Photosynthesis and Plant Biotechnology
- 15.40 - 16.00 Presentation 23
Lorella Navazio
Calcium-based communications in plant root endosymbioses: the microorganism perspective
Research Unit: Plant Cell Biology
- 16.00 - 16.20 Presentation 24
Livio Trainotti
Molecular and hormonal regulation of fleshy fruit development and ripening
Research Unit: Botany

16.30 - 17.00 coffee break

Session 6 – Systematics & Phylogeny - Chairman: Alessandro Minelli

- 17.00 - 17.20 Presentation 25
Katia Sciuto
Barcoding P.A.T.H.S.: DNA barcodes for reference plant samples
Research Unit: Biology and Systematics of Algae and Higher Plants
- 17.20 - 17.40 Presentation 26
Moreno Clementi
A multidisciplinary approach to the study of the collection of Roberto de Visiani (1800-1878), Praefectus of the botanical garden of Padova
Research Unit: Palynology and Archaeobotany
- 17.40 - 18.00 Presentation 27
Lucio Bonato
Geophilomorph centipedes: diversity, phylogeny and evolution
Research Unit: Evolutionary Biology of Arthropods

Concluding remarks

18.10 drinks & snacks