

The road to the future: biomedical research paving the way towards precision medicine

15 years of biomedical research at EURAC Research

24-25 November 2016, Bolzano

November 24th 2016

- 14:00 Welcome and Introduction
Roland Psenner, EURAC President, Bolzano, Italy
Arno Kompatscher, President of the Autonomous Province of South-Tyrol, Italy
Peter P. Pramstaller, Head of EURAC Center for Biomedicine, Bolzano, Italy
- 14:45 Keynote address - Precision Medicine: Today and Tomorrow
Geoffrey Ginsburg, Duke University Schools of Medicine and Engineering, USA

Session I: From population to patients

- 15:30 From p-values to proteins: making biological and translational sense out of human genetic data
Mark McCarthy, University of Oxford, UK
- 16:15 Coffee break
- 16:45 Regulation of self renewal in Cancer Stem Cells
Pier Giuseppe Pelicci, European Institute of Oncology (IEO), Milan, Italy
- 17:30 From deep phenotyping to genotyping and clinical translation: the Verona Heart Study experience.
Domenico Girelli, University of Verona, Italy
- 19:30 Evening Reception
Maretsch Castle Bolzano-Bozen

November 25th 2016

- 8:45 Keynote address - Stories of Science, cells and freedom
Elena Cattaneo, Department of BioSciences, Centre for Stem Cell Research, University of Milan, Italy

Session II: Post GWAS approaches for understanding diseases

- 9:30 The Role of Genome Sequencing in Precision Medicine for Rare Diseases and Cancer
Jenny Taylor, University of Oxford, UK
- 10:15 Coffee break

10:45 From GWAS to functional variant in the era of precision medicine
Karen Mohlke, University of North Carolina at Chapel Hill, USA

11:30 Exploring the Translatome
Alessandro Quattrone, Centre for Integrative Biology, University of Trento, Italy

Session III: The molecular basis of diseases

12:15 Translational aspects of hereditary movement disorders: from genes to human cellular models
Christine Klein, University of Lübeck, Germany

13:00 Lunch

14:00 iPSCs as model system for inherited cardiac diseases
Karl-Ludwig Laugwitz, Technical University of Munich, Germany

14:45 Modelling neurodegeneration: Molecular mechanisms and target discovery in Parkinson's
Richard Wade-Martins, University of Oxford, UK

15:30 Genetic Engineering of Hematopoiesis to treat Human Disease
Luigi Naldini, San Raffaele Scientific Institute, Milan, Italy

16:15 Coffee break

Session IV: Impacting healthcare

16:45 The role of biobanking in the development of precision medicine
Marialuisa Lavitrano, University of Milano-Bicocca, Italy

17:30 ELSI approaches to personalised medicine: consent and involvement in next generation sequencing
Heidi Howard, Centre for Research Ethics and Bioethics, Uppsala University, Sweden; EURAC Center for Biomedicine, Bolzano, Italy

18:15 Concluding remarks
Andrew Hicks, EURAC Center for Biomedicine, Bolzano, Italy
Peter P. Pramstaller, EURAC Center for Biomedicine, Bolzano, Italy

18:30 End