Leopoldina
Nationale Akademie
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OAW
Austrian Academy
of Sciences

SYMPOSIUM

on the occasion of the meeting of the Presiding Board
of the German National Academy of Sciences Leopoldina
at the Austrian Academy of Sciences

Computational Mathematics – The Quiet Invaders

October 23, 2012

Festive Hall of the Austrian Academy of Sciences
Vienna, Austria

Program:

10:00–12:00   *Welcome address*

Thomas Lengauer | Department Computational Biology and Applied Algorithmics, Max Planck Institute for Informatics, Saarbrücken
Bioinformatics-assisted HIV therapy – spearheading personalized medicine?

Martin Nowak | Department of Organismic and Evolutionary Biology and Director of the Program for Evolutionary Dynamics, Harvard University, Cambridge, MA
Evolutionary dynamics of cancer

Christoph Bock | CeMM – Research Center for Molecular Medicine, Austrian Academy of Sciences, Vienna
Quantitative dissection of the epigenome's role in health and disease

12:00–13:00   Lunch break

13:00–15:00   **Olle Nerman** | Department of Mathematical Sciences, Chalmers University of Technology, Gothenburg
What can we learn from comparisons of empirically evaluated and model-based error rates in genomic and phenomic screenings?

Gisbert Wüstholz | Department of Mathematics, ETH Zurich
Computational aspects in diophantine geometry

Alexander Stark | IMP – Research Institute of Molecular Pathology, Vienna
Regulatory genomics – decoding Drosophila regulatory sequences

15:00–16:00   Coffee break

16:00–17:00   **Massimo Fornasier** | Faculty of Mathematics, Technical University of Munich
Mathematics Enters the Picture – The Restoration of Mantegna's Frescoes in Padua

Alexia Fürnkranz-Prskawetz | Vienna Institute of Demography, Austrian Academy of Sciences
Agent-Based Computational Demography

For further information please contact:
event@oeaw.ac.at

We kindly ask you to register until October 16, 2012 (free of charge): event@oeaw.ac.at