



Leopoldina  
Nationale Akademie  
der Wissenschaften



## 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

**Venue:**  
Austrian Academy of Sciences  
Festive Hall  
Dr. Ignaz Seipel-Platz 2  
1010 Vienna, Austria

For further information please contact:  
[event@oeaw.ac.at](mailto:event@oeaw.ac.at)

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

**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 Wüstholtz** | 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, Vienna  
*Agent-Based Computational Demography*

