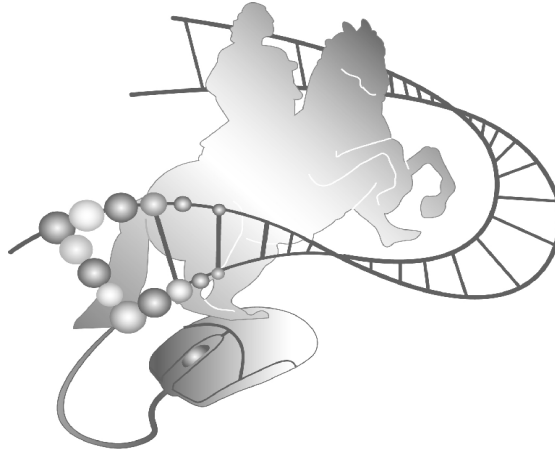


2. Workshop
Computational Biology in Saxony:
Problems and Perspectives
March 14, 2003
Dresden University of Technology



Organizers:

Prof. Dr. Wolfgang E. Nagel, Technische Universität Dresden, Zentrum für Hochleistungsrechnen
Dr. Andreas Deutsch, Technische Universität Dresden, Zentrum für Hochleistungsrechnen

Programm:

- | | |
|---|--|
| <p>9:00 Welcome
<i>Andreas Deutsch, ZHR, TU Dresden</i></p> <p>9.15 Microtubule depolymerization by the kinesin-related protein MCAK
<i>Jonathon Howard, MPI-CBG, Dresden</i></p> <p>9.45 Bidirectional cooperative motion of molecular motors
<i>Frank Jülicher, MPI-PKS, Dresden</i></p> <p>10.15 Surveying phylogenetic footprints: an efficient method and an application to vertebrate Hox clusters
<i>Peter F. Stadler, Claudia Fried Bioinformatics, University of Leipzig</i></p> <p>10.45 Coffee</p> <p>11.15 Modelling of tissue stem cell plasticity
<i>Markus Löffler, Ingo Röder, IMISE, University of Leipzig</i></p> | <p>13.30 Quantification and modelling of cell migration
<i>Peter Dieterich, University Clinic Dresden</i></p> <p>14.00 Ripple patterns in myxobacteria
<i>Uwe Börner, Markus Bär MPI-PKS, Dresden</i></p> <p>14.30 Coordinated growth of yeast colonies: mathematical and experimental analysis of possible regulatory mechanisms
<i>Thomas Walther, Thomas Bley, Bioprocessing, TU Dresden</i></p> <p>15.00 Physics of complex biological networks
<i>Stefan Bornholdt, IZBI, University of Leipzig</i></p> <p>15.30 Coffee</p> <p>15.45 Development of connectivity and electrical activity in neuronal networks
<i>Andreas Schierwagen, Computer Science, University of Leipzig</i></p> |
|---|--|

11.45 How do tumors grow in vitro?
*Dirk Drasdo, Stefan Höhme,
MPI-MIS, Leipzig*

12.15 Lunch

13.15 Computational biology and high performance computing: local perspectives
Wolfgang E. Nagel, ZHR, TU Dresden

16.15 Random evolution towards highly organized structures in idiotypic networks
*Markus Brede, Ulrich Behn
Theoretical Physics, University of Leipzig*

16.45 Simulation of immunological tissue
*Michael Meyer-Hermann,
Theoretical Physics, TU Dresden*

17.15 Wrap up

Workshop venue:

- Technische Universität Dresden, Zellescher Weg 12, Willers-Bau, Room C 207

For further enquiries and registration:

- Andreas Deutsch, Tel. 0351-463-31943,
Email: deutsch@zhr.tu-dresden.de
- Conny Okuma (Secretary), Tel. 0351-463-38246, Fax 0351-463-38245
Email: okuma@zhr.tu-dresden.de