

## Information

### Registration

See the Website for registration information:  
[http://www.ibima.med.uni-rostock.de/workshop\\_2010](http://www.ibima.med.uni-rostock.de/workshop_2010)

Registration fee:

- 0 EUR for Rostock Scientists.
- 75 EUR for graduate students.
- 150 EUR for academia & industry.

Onsite registration is not possible.

The number of participants is limited, and the workshop is filling up -- if you are interested, please do not delay starting your registration process. After April 19, the remaining free admissions for Rostock Scientists will be allocated on a first-come, first served basis, see the website.

**Venue:** Yachthafenresidenz Hohe Düne  
[www.hohe-duene.de](http://www.hohe-duene.de).

From Rostock main station (Hauptbahnhof, Hbf) take the S-Bahn to Warnemünde (last stop). Then take the ferry across the Warnow (approx every 15 minutes). Upon leaving the ferry, the Hohe Düne Resort is a few minutes away, on the left.



## Sponsors

The workshop is kindly sponsored by Pfizer and Sanofi-Aventis, and supported by the Department of Medicine & the Department of Aging Science and Humanities, University Rostock.

The workshop includes the 'official' inauguration of the restructured and renamed Institute for Biostatistics and Informatics in Medicine and Ageing Research -- IBIMA in the Department of Medicine, University Rostock.

# IBIMA

Institute for **B**iostatistics and  
**I**nformatics in **M**edicine  
and **A**geing Research

## Workshop on Bioinformatics in Ageing Research

04./05. May 2010

Yachthafenresidenz Hohe Düne, Rostock

Sponsored by:



Supported by:

**Department of Medicine &  
Department of Aging Science and Humanities,  
University Rostock**



## Background

Evidence is accumulating that the first genuine anti-ageing interventions (e.g. approved pharmaceutical, nutraceutical and stem-cell-based therapies) may become available within the next decade. Model organism data, next-generation sequencing and other advances trigger a need for large-scale data analysis. The workshop convenes leading experts to present the state-of-the art and to talk about upcoming tasks and challenges in the bioinformatics and systems biology of ageing-related data.

## Organisation

### Organisation:

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## Program

### Tuesday May 4

- 16:00-16:10 Opening  
16:10-17:00 Günter Lepperdinger: Age-dependent and age-independent measures of fitness: what to learn from human primary mesenchymal stem cells  
17:00-17:30 Alexandra Stolzing, Jörg Galle: Mesenchymal stem cell heterogeneity and aging  
17:30-18:15 James Adjaye: Stem cells, tissue homeostasis and ageing  
18:30-19:00 Niels Grabe: A Systems Biological Approach for Researching Stromal Aging  
19:00-19:20 Michael Greeff: Semantic text mining in the analysis of neurodegenerative diseases  
19:20-19:40 Daniel A. Levitis: The declining opportunity for mutational action with increasing age  
19:40-19:50 Attila Altiner: Anti-ageing medicine from a General Practitioners perspective: The prevention of cardiovascular disease

### Wednesday May 5

- 9:20- 9:30 Announcements  
9:30-10:15 Joao Pedro de Magalhaes: Bioinformatics, systems biology and aging: navigating the new oceans of data to discover the Fountain of Youth  
10:15-10:45 Julio Vera: Investigating the molecular basis of the Cancer/Aging link through Systems Biology

- 10:45-11:05 Andreas Höflich: Mouse models for the study of longevity: complex trait or monogenetic origin?  
11:30-12:15 Almut Nebel, David Ellinghaus: High-throughput studies and bioinformatic analysis to tackle the genetics of human longevity  
12:15-12:45 Axel Kowald: The use of quantitative as well as qualitative models for investigating the aging process  
12:45-13:05 Robi Tacutu: The Longevity and Disease Networks: searching for new pro-longevity targets  
14:30-15:15 Aubrey de Grey: Design for a knowledge base of causal interactions between aspects of aging and therapies to combat it  
15:15-15:45 Georg Fuellen: The human preventome and the need to condense lots of information into simple hypotheses  
15:45-16:05 Stefan Schuster: Use of Metabolic Pathway Analysis in Biochemical Research Related to Ageing  
16:30-17:15 Anil Wipat: The Centre for the Integrative and Systems Biology of Ageing and Nutrition (CISBAN) and In-silico approaches to ageing research  
17:15-17:45 Jürgen Sühnel: JenAge - The Jena Centre for Systems Biology of Ageing  
17:45-18:05 Greg Tyrell: DNage- A Systems Biology Approach to Translation of Aging Research into Medicine for Premature Aging Disease  
18:05-19:00 (Panel) Discussion