

Structured MD/PhD curriculum: Molecular Mechanisms of Regenerative Processes

Research fields:

Stem cell biology

Cardiac regeneration strategies

Molecular signatures of diseases

Post translational modification analysis

Epitope mapping

Location:

Albert-Einstein-Str. 3a, HS002
18059 Rostock

Speaker of the curriculum committee:

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Cooperation Partners:

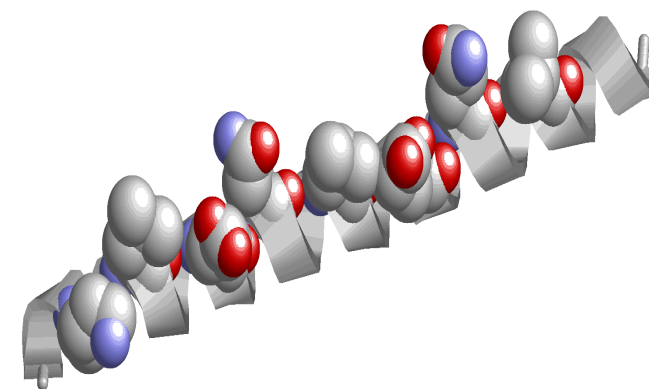
- Graduate Academy of the University of Rostock
- Proteome Alliance e. V.

5th Participants` Camp

Molecular Mechanisms of Regenerative Processes

4th June 2013

9:00 - 17:30



Albert Einstein Str. 3a, HS002

18059 Rostock

The conference is open to all interested students,
MD/PhD students, Postdocs, faculty, and staffs

General Information

The Participants` Camp is an event of the structured study path *Molecular Mechanisms of Regenerative Processes* at the University of Rostock.

In this context our junior scientists take the opportunity to present their topics, which are focussed among others on stem cell research and the involvement of genes and proteins in regenerative processes related to human health.

This interdisciplinary and international orientated programme is offered by the University Medicine Rostock and provides qualified young scientists the opportunity to gain an MD degree (*Dr. med. (medicinae)*), or a PhD degree (*Dr. rer. hum. (rerum humanarum)* or *Dr. rer. nat. (rerum naturalium)*) in the field of Life Science.

Med. Biotechnologists with a Master degree and students of the University Medicine (prerequisite: 1. state examination) as well as scientists of the Faculty of Mathematics and Natural Sciences and of the Faculty of Agricultural and Environmental Sciences (prerequisite: Dipl./ Master's degree in Life Science) are most welcome to enrol for our curriculum.

Programme

Time	Tuesday; 4th June, 2013
9:00	Prof. M. O. Glocker Welcome and Introduction
Invited Speaker	
9:15	Dr. Davor Turkovic Shotgun proteomics with the Synapt G2-S HDMS system - The benefits of data independent acquisition
Session I: Cardiac regeneration strategies	
10:00	Prof. R. David Generation of specific cardiomyocyte subtypes from stem cells
10:30	N. Voronina Genetic modification for cardiac angiogenesis using magnetic-nanoparticle based delivery of micro RNAs
10:50	F. Hausburg Reprogramming of somatic cells into cardiomyocytes
11:10	Coffee Break
Session II: Epitope mapping	
11:50	Dr. P. Lorenz Profiling of the humoral immune response by peptide microarrays.
12:20	K.F.M. Opuni A Novel method for epitope mapping by affinity mass spectrometry in the fmol range
12:40	M. Al-Majdoub The <i>TRIM21</i> autoantigen epitope: structural and biochemical characterization by affinity mass-spectrometry
13:00	Lunch break

Programme

Time	Tuesday; 4th June, 2013
Session III: External and internal disease dysregulation	
14:20	Prof. O. Hakenberg Molecular changes in bladder cancer and urine-based diagnosis
14:50	G. Mukherjee Phosphopeptide analysis using ionic liquid matrix MALDI-MS: Examples from bladder cancer samples
15:10	S. Zaatreh Implant– related infections in total joint arthroplasty: In-vitro analysis of the bacterial colonization and biofilm formation
15:30	Coffee Break
Session IV: Molecular signatures of diseases	
16:00	Prof. M. O. Glocker Clinical proteome analysis strategies
16:30	J. Yang Proteome signatures of Free Flaps - Mass spectrometric and proteome analysis of protein profile changes during Ischemia and Reperfusion
16:50	A. Hegglin Proteomic analysis of skin graft taking– a time course study
17:10	M. Jacobs Comparison of molecular processes in traumatized and healthy muscle tissue by mass spectrometric proteome analysis
17:30	Summary and Farewell
18:00	Get-together and BBQ