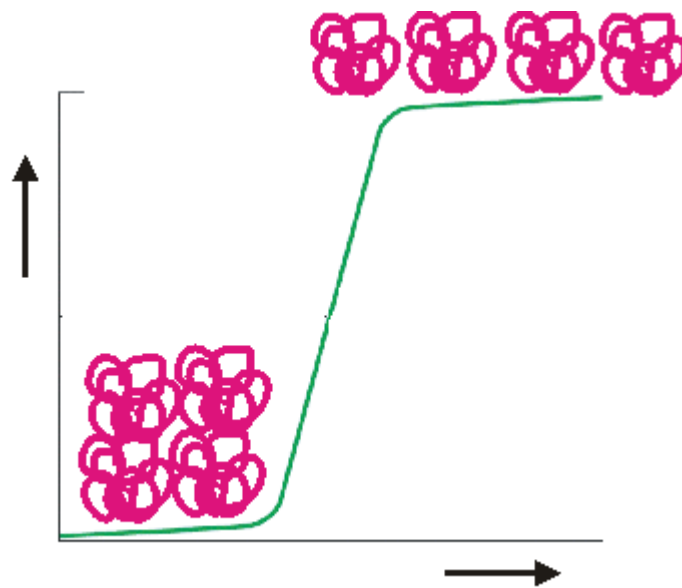


Structured Curriculum for MD and PhD students  
University Medicine Rostock

**Participants' Camp WS 2014**

&

**9<sup>th</sup> Proteome Forum – 2014**



3<sup>rd</sup> - 4<sup>th</sup> of December, 2014

**Wednesday, 3rd December 2014**

**Session I: Stem Cell and Cardiac Regeneration/Molecular Disease Mechanisms**

(Chair: Kwabena Opuni)

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10:00-12:00	<b>Laboratory Tour</b> <b>Frauke Hausburg</b> , Cardiac Stem Cell Translation Office
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12:00-13:00	<b>Lunch break</b>
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13:00-13:05	Welcome Address
13:05-13:50	<b>Prof. Dr. Robert David</b> , Reference and Translation Center for Cardiac Stem Cell Therapy Stem Cell derived Cardiac pacemaker Constructs
13:50-14:35	<b>Dr. Arash Yavari</b> , The Wellcome Trust Center for Human Genetics, Oxford University PRKAG2 – insights into heart rate regulation
14:35-15:00	<b>Marcus Wolfien</b> , Reference and Translation Center for Cardiac Stem Cell Therapy Next Generation Sequencing Data Analysis of Stem Cell Derived Cardiomyocyte Cell Types
15:00-15:25	<b>Praveen Vasudevan</b> , Reference and Translation Center for Cardiac Stem Cell Therapy Strategies for increased survival and integration of transplanted cells for cardiac regeneration and biological pacemaker implantation
15:25-15:50	<b>Sarah Zaatreh</b> , Department of Orthopedics In-vitro analysis of bacterial colonization and proliferation of human osteoblasts on magnesium surfaces.
15:50-16:15	<b>Martin Jacobs</b> , Proteome Center Rostock Proteome Analysis of Biochemical Pathways and Inflammatory Processes in Traumatized, Ischemic and Healthy Muscle Tissue by UPLC-ESI-IMS- Mass Spectrometry

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16:15-17:00	<b>Coffee Break</b>
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17:00-18:00	<b>Prof. Dr. Peter Højrup</b> , University of Southern Denmark Mysteries in proteomics and protein structural analysis? Keep your eyes open - always question your results and be prepared for unusual observations
18:00-19:00	<b>Dr. Günter Böhm</b> , Director of Applications, CTC Analytics AG, Zwingen, Switzerland Automated sample preparation for ´omics applications

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19:00-22:00	<b>Dinner</b> , "Zum Alten Fritz", Warnowufer 65, 18057 Rostock
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**Thursday, 4th December 2014**

**Session II: Stem Cell and Cardiac Regeneration/Structural Proteomics**

(Chair: Frauke Hausburg)

9:00-10:30

**Laboratory Tour**

**Dr. Cornelia Koy**, Proteome Center Rostock

10:45-11:10

**Yelena Yefremova**, Proteome Center Rostock

Probing Protein Solution Structure by nanoESI-MS

11:10-11:35

**K.F.M. Opuni**, Proteome Center Rostock

Characterization of Protein Complexes by Native Mass Spectrometry

11:35-12:00

**Hasan AL-Bony**, Institute of Immunology

Analysis of humoral immune responses to frame shift proteins in renal cancer

12:00-13:00

**Lunch break**

13:00-13:45

**Prof. Dr. Michael Glocker**, Proteome Center Rostock

Mass spectrometric characterization of limited proteolysis activity in plasma samples from Rheumatoid Arthritis patients

13:45-14:10

**Frauke Hausburg**, Reference and Translation Center for Cardiac Stem Cell Therapy

Non-viral introduction of micro-RNA into bone marrow derived CD133<sup>+</sup> stem cells

14:10-14:35

**Paula Müller**, Reference and Translation Center for Cardiac Stem Cell Therapy

Reprogramming of bone marrow derived human stem cells into cardiomyocytes using microRNA

14:35-15:00

**Natalia Voronina**, Reference and Translation Center for Cardiac Stem Cell Therapy

Non-viral targeted delivery of miRNAs for promoted angiogenesis

15:00-16:00

**Coffee break**

16:00-16:45

**Prof. Dr. Armin. Geyer**, Philipps-Universität Marburg

Constriction of peptides for the construction of antibody epitopes

16:45-17:00

Closing remarks

19:00-22:00

**Dinner**, "Restaurant Hopfenkeller", Kröpeliner Straße 18, 18055 Rostock

**Location on Campus:**

