

# RegMed Forum 2016 – 10 Years BCRT

October 06-07, 2016 | Berlin

## Program

### Thursday, October 06, 2016

Berlin-Brandenburgische Akademie der Wissenschaften | Markgrafenstrasse 38 | 10117 Berlin

#### Registration

Foyer BBAW | All Participants

**08:15 – 08:45**

#### Welcome and Overview / Opening Symposium

Leibniz-Saal | All Participants

**08:45**

##### Overview

Hans-Dieter Volk, Georg Duda, Andreas Lendlein

**08:50**

##### Where Are We, Where Are We Going?

Hans-Dieter Volk | BCRT | Charité – Universitätsmedizin Berlin

#### Session I

Strategies for Supporting Regeneration after Bone/Muscle Injury

Chair: Andrew Carr | SAB

Co-Chair: Georg Duda | BCRT

**09:10**

##### Remaining Challenges in Musculoskeletal Regeneration: Induce Endogenous Repair Mechanism in Tendon

Andrew Carr | SAB | University of Oxford, UK

**09:35**

##### Learning from Bone Regeneration

Georg Duda | BCRT | Charité – Universitätsmedizin Berlin

**09:55**

##### Extracellular Matrix Organization and Mineralization in Bone Regeneration

Peter Fratzl | MPI

**10:10**

##### Visualization of Bone – Immune Interaction

Anja Hauser | DRFZ

**10:25**

##### Hereditary Forms of Bone Fragility and Treatment Strategies

Uwe Kornak | BCRT | Charité – Universitätsmedizin Berlin

**10:40**

##### Regenerative Strategies after Muscle Injury from Bench-to-Bedside and Reverse

Tobias Winkler | BCRT | Charité – Universitätsmedizin Berlin

**11:00**

##### Developing a new ECM Platform – a Joint Industry and Basic Research Approach

Ingo Heschel | Matricel GmbH

Ansgar Petersen | BCRT | Charité – Universitätsmedizin Berlin

**11:20**

##### Coffee Break

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#### Session II

##### Regenerative Approaches in Cardiovascular Diseases

**Chair: Stephane Heymans | SAB**      **Co-Chair: Carsten Tschöpe | BCRT**

- 11:40**      **Molecular Mechanism of Cardiomyopathy**  
Stephane Heymans | SAB | Maastricht University Medical Centre
- 12:00**      **Inflamed Heart – Targeted Therapies**  
Carsten Tschöpe | BCRT | Charité – Universitätsmedizin Berlin
- 12:15**      **CardAP – A Unique Cell Type for Cardiac Muscle Regeneration**  
Michael Sittinger | BCRT | Charité – Universitätsmedizin Berlin  
Sophie Van Linthout | BCRT | Charité – Universitätsmedizin Berlin
- 12:30**      **Lunch Break**  
**Poster Session**

#### Session III

##### Regenerating / Reshaping the Immune System by Immune Cell Therapies

**Chair: Cliona Rooney | SAB**      **Co-Chair: Petra Reinke | BCRT**

- 14:00**      **Immune Cell Therapy**  
Cliona Rooney | SAB | Baylor College of Medicine Houston, USA
- 14:25**      **Transgenic T Cells for Immunotherapy**  
Wolfgang Uckert | MDC
- 14:45**      **Regulatory T Cell Therapy from Bench-to-Bedside**  
Petra Reinke | BCRT | Charité – Universitätsmedizin Berlin
- 15:05**      **Selection and Expansion of Long-Lived T Cells for Sustained Immune Regeneration**  
Michael Schmück-Henneresse | BCRT | Charité – Universitätsmedizin Berlin
- 15:20**      **“CD8+ Treg: Old, New Players in Immune Tolerance”**  
Ignacio Anegón | SAB | CHU des Nantes
- 15:40**      **Immune Cell Therapy – an Industrial Point of View**  
Lothar Germeroth | Juno Therapeutics, Inc.
- 16:00**      **Coffee break**

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- 17:00**            **Opening Ceremonial Act (for invited guests only) and Scientific Get-Together (open)**
- Welcome**  
                  Dr. Torsten Fischer | Head of the Public Relations Department of Helmholtz-Zentrum Geesthacht
- 17:05**            **Short Welcoming Speech by Representative of the Land of Brandenburg**  
                  Carsten Feller | Brandenburg Ministry for Science, Research and Culture
- 17:20**            **Speech by Board of Charité – Universitätsmedizin Berlin**  
                  Karl Einhäupl | Chief Executive Officer of the Charité – Universitätsmedizin Berlin
- 17:35**            **Speech by Executive Board of HZG**  
                  Michael Ganß | Administrative Director of Helmholtz-Zentrum Geesthacht
- 17:50**            **Short Welcoming Speech by Representative of the Berlin Institute of Health**  
                  Axel Pries | Extraofficial Member of the Executive Board – Berlin Institute of Health  
                  Dean of the Charité – Universitätsmedizin Berlin
- 18:05**            **Word of Thanks and Ceremonial Opening**  
                  Board of Directors of the Berlin-Brandenburg Center for Regenerative Therapies
- 18:25**            **Laudatory Speech**  
                  Jörg Vienken | SAB
- 18:40**            **„BCRT Gets the Blues“**  
                  Albrecht Wendel | SAB
- Karlsson Penthouse | (Zugang über Wissenschaftsforum Berlin) Markgrafenstrasse 37 | 10117 Berlin
- 20:00**            **Opening of the Buffet by the Board of Directors**

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#### Registration

Foyer BBAW | All Participants

**08:00 – 08:30**

#### Session IV

**Biomaterials and Regeneration**

**Chair: Jörg Vienken | SAB**

**Co-Chair: Andreas Lendlein | BCRT | HZG**

- 08:30**      ***Multifunctional Polymer-Based Biomaterials***  
**International Approach to Biomaterial Research and Translation**  
Yakai Feng | Tianjin University, China
- 08:55**      **Biomaterials and Translational Technologies**  
Andreas Lendlein | BCRT | HZG
- 09:15**      **Biomaterial-Induced Stem Cell Modulation/ Differentiation**  
Nan Ma | BCRT | HZG
- 09:30**      **Hemocompatibility of Biomaterials – towards a Personalized Approach**  
Friedrich Jung | BCRT | HZG
- 09:45**      ***Minimally Invasive Procedures and Gentle Treatments***  
**Cardiovascular Implant Design – from Clinical Need to Device Design**  
Markus Reinthaler | BCRT | HZG  
Ulf Landmesser | Charité – Universitätsmedizin Berlin
- 10:00**      **Cardiovascular Devices – from Conception to Broad Clinical Application**  
Bruno Scheller | InnoRa GmbH
- 10:20**      ***Tissue Regeneration***  
**Cardiac Patch (Crossfield F/B)**  
Christof Stamm | BCRT | Deutsches Herzzentrum Berlin
- 10:35**      **Multimodal Evaluation of Bone Regeneration Induced by a 3D Architected Hydrogel**  
Philipp Lohmann | Forschungszentrum Jülich, Institute of Neuroscience and Medicine
- 10:50**      **Coffee Break**

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#### Session V

##### Precision Medicine in Regenerative Medicine

**Chair: Ignacio Anegon | SAB**

- 11:10 Application of Biomarkers in RegMed**  
Hans-Dieter Volk | BCRT | Charité – Universitätsmedizin Berlin
- 11:30 Genomics in RegMed**  
Stefan Mundlos | BCRT | Charité – Universitätsmedizin Berlin
- 11:50 Translational Bioinformatics – Tool for Linking Phenotype and Genotype**  
Tomasz Zemojtel | BCRT | Charité – Universitätsmedizin Berlin
- 12:10 Lunch Break**  
**Poster Session**

#### Session VI

##### Advanced Disease Models and Technologies

**Chair: Albrecht Wendel | SAB**

**Co-Chair: Uwe Marx | TissUse GmbH**

- 13:10 Advanced *In Vitro* Models Using “Human-on-the-Chip” Technology**  
Uwe Marx | TissUse GmbH
- 13:35 Stem Cell Core Unit Berlin**  
Harald Stachelscheid | BCRT | Charité – Universitätsmedizin Berlin  
N.N.
- 13:50 *In Vitro* Nephrogenesis Using Human iPS Cells**  
Krithika Hariharan | BCRT | Charité – Universitätsmedizin Berlin
- 14:05 Immunogenicity and Immunomodulation of Human iPS Cells and their Derivatives**  
Bella Rossbach | BCRT | Charité – Universitätsmedizin Berlin
- 14:20 How Does our Mouse Models under Standard Housing Conditions Reflect the Real Life?**  
Kerstin Mühle | BCRT | Charité – Universitätsmedizin Berlin
- 14:35 Are Large Animal Models the Better Human Models?**  
Evi Lippens | BCRT | Charité – Universitätsmedizin Berlin
- 14:50 Replacement of Animal Experiments: No Fast-Selling Item**  
Albrecht Wendel | SAB

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|--------------|--|
| <b>15:05</b> | <b>Coffee Break</b>  |
| <b>15:25</b> | <b>Award for “Paper of the Year 2015”</b><br>Werner Wolf   SAB<br>Klaus von der Mark   SAB |
| <b>15:55</b> | <b>End</b>   |
| <b>15:55</b> | <b>Meeting BCRT Board with SAB</b>   |