


International Trauma Symposium

Ulm, 19th – 21st of September 2022

Monday, 09/19/2022

11:00 – 11:30	Registration
11:30 – 12:30	
12:30 – 13:00	Welcome

SESSION A – Acute Danger Response

Chair: Timothy Billiar (Pittsburgh), Frank Hildebrand (Aachen)



13:00 – 13:40	Timothy Billiar, Pittsburgh, USA Title: <i>A multiomic approach to understanding the human response to severe injury</i>
13:40 – 14:20	Anne Grunenwald, Paris, France Title: <i>Rhabdomyolysis, complement and inflammation</i>
14:20 – 15:00	Pär I Johansson, Copenhagen, Denmark Title: <i>Shock induced endotheliopathy (SHINE) in trauma – a metabolomic systems analysis</i>
15:00 – 15:20	
15:20 – 16:00	Martin Schwab, Zurich, Switzerland Title: <i>From bench to bedside for a regeneration enhancing therapy for spinal cord injury</i>
16:00 – 16:20	Markus Huber-Lang, PI of CRC 1149 project Title: <i>TRAKI: from bench to real world</i>
16:20 – 16:40	Tobias Böckers, PI of CRC 1149 project Title: <i>Hippocampal synapse loss in a trauma induced delirium like syndrome</i>
19:00 –	Dinner / Bella Vista (Speakers and Board)

Tuesday, 09/20/2022

SESSION B – Disturbance Factors

Chair: Elisabeth Binder (Munich), Ingo Marzi (Frankfurt)

08:00 – 08:40	Sebastian Weis, Jena, Germany Title: <i>Disease tolerance in sepsis</i>
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08:40 – 09:20	Matteo Bergami, Cologne, Germany Title: <i>Mitochondrial dynamics in brain injury</i>
09:20 – 10:00	Mervyn Singer, London, UK Title: <i>Can we accelerate recovery and avoid sarcopenia?</i>
10:00 – 10:20	
10:20 – 11:00	Elisabeth Binder, Munich, Germany Title: <i>Molecular mechanisms of gene x environment interaction: implications for psychiatric disorders</i>
11:00 – 11:40	Aline Bozek, Erlangen, Germany Title: <i>The control of inflammatory bone loss by L-arginine pathway.</i>
11:40 – 12:00	Francesco Roselli, PI of CRC 1149 project Title: <i>Neuronal control of local inflammatory response in brain trauma</i>
12:00 – 12:20	Melanie Haffner-Luntzer, PI of CRC 1149 project Title: <i>Influence of psychosocial trauma on fracture healing</i>
12:20 – 13:20	

SESSION C – Regenerative Potential


Chair: Johannes Grillari (Vienna), Sascha Halvachizadeh (Zurich)

13:20– 14:00	Philipp Leucht, New York, USA Title: <i>How understanding molecular mechanism in skeletal stem cell biology can lead to novel therapeutics</i>
14:00 – 14:40	Martin Stoddart, Davos, Switzerland Title: <i>Regulating MSC differentiation using mechanics</i>
14:40 – 15:00	
15:00 – 15:40	Christa Maes, Leuven, Belgium Title: <i>Activation of reparative skeletal stem/progenitor cells for bone healing</i>
15:40 – 16:20	Johannes Grillari, Vienna, Austria Title: <i>From cellular senescence to tissue regeneration</i>
16:20 – 17:00	Bent Brachvogel, Cologne, Germany Title: <i>Metabolic dysfunction in endochondral ossification</i>
19:00 –	Social program / Bootshaus (all participants)

Wednesday, 09/21/2022

SESSION C – Regenerative Potential

Chair: Stephan Zeiter (Davos), Philipp Leucht (New York)

08:00 – 08:40	Nikolaus Plesnila, Munich, Germany Title: <i>Long-term outcome after traumatic brain injury</i>
08:40 – 09:20	Christian Bucher, Berlin, Germany Title: <i>Immunoaging impacts fracture healing by altered signaling cascades</i>
09:20 – 09:40	Gilbert Weidinger, PI of CRC 1149 project Title: <i>The role of cellular plasticity in zebrafish appendage regeneration</i>
09:40 – 10:00	Jan Tuckermann, PI of CRC 1149 project Title: <i>Lessons from glucocorticoid action in bone</i>
10:00 – 10:20	

Podium – Pros and cons of animal modelling in trauma

Chair/Moderation: Jan Tuckermann (Ulm), Florian Gebhard (Ulm)

10:20 – 11:00	René H. Tolba, Aachen, Germany Title: <i>Translational large animal models in trauma surgery and education</i>
11:00 – 11:40	Stefan Treue, Göttingen, Germany Title: <i>Pro-active communication about responsible animal research</i>
11:40 – 12:10	All participants Open discussion
12:10 – 12:50	Stephan Zeiter, Davos, Switzerland Future / Outlook Title: <i>Developing innovations in fracture care: how to find the right pre-clinical model</i>
12:50 – 13:00	Florian Gebhard, Ulm, Germany Closing remarks
13:00 –	Snack / Departure

Organization:

Florian Gebhard, Markus Huber-Lang, Anita Ignatius, Jan Tuckermann, Leda Dimou, Stefan Reber