Austrian Cluster for Tissue Regeneration

AUVA

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LUDWIG BOLTZMANN INSTITUTE Traumatology
The Research Center in Cooperation with AUVA

13th TERMIS Winterschool 2026

"An Interactive Seminar Series on Current Hot Topics in Regenerative Medicine"

Bridging Tissue Engineering & Clinical Needs

"Pitch your Project Ideas" Challenge

Poster Session with Wine Tasting

Radstadt – Austria
January 11th-14th, 2026

With support from the Society of the Advancement of Research in Shock and Tissue Regeneration

MatureTissue
Joint DC by UASTW and TUW

FH University of Applied Sciences TECHNIKUM WIEN

Stadt Wien Wirtschaft, Arbeit und Statistik

Universität für Weiterbildung Krems

DONAU UNIVERSITÄT KREMS

Program

Sunday, January 11th

16:00-19:15

16:00 Welcome

Heinz Redl, Johannes Grillari

16:15 – 19:15 From Bedside to Bench

In biomedical research, it is easy to get lost in your own professional bubble of lab organization, scientific details and the peculiarities of academia. The reality check of clinical needs and feasibility might not get the attention it deserves. Often, we go years without ever meeting the target audience of our research or never meet them at all: patients. In this session, we will go into aspects of the "real world" to be taken into account when seeking to meet clinical needs. Two surgeons will give insights into their experiences by the bedside. Finally, in a closing workshop you will reflect upon how you can involve these new insights as well as open innovation concepts into your current or future research projects.

Chair: Conny Schneider (LBI Trauma)

Speakers:

1. *Moritz Katzensteiner (AUVA Trauma Center Linz, Austria)*
2. *Stefan Nehrer (University for Continuing Education Krems, Austria)*
3. *Conny Schneider (LBI Trauma, Austria)*

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Monday, January 12th

08:30-11:30 / 16:30-19:00

08:30 – 11:30 Advanced Strategies

Regenerative medicine faces significant challenges that demand innovative approaches to enhance therapeutic efficacy and consistency. While therapeutic cells play a critical role in triggering regeneration processes, traditional cell therapies are often labor intensive, costly, and unpredictable in their outcomes. To address these limitations, advanced strategies such as modified cells, micro tissue grafting, and external biophysical stimulation techniques are gaining traction. This session will explore biophysical methods such as bioreactor-based cell stimulation, shockwave treatment, and micro tissue grafting as tools to enhance biological processes and tissue regeneration. Participants will also work on integrating these technologies into their own research projects, with a focus on their potential for translational applications.

Chairs: Andreas Teuschl (University of Applied Sciences Technikum Wien)

Speakers:

1. *TBD (FH Technikum Wien, Austria)*
2. *Jürgen Groll (University of Würzburg, Germany)*
3. *Justin Cooper-White (University of Queensland, Australia)*

BREAK

11:30-16:30

16:30 – 18:00 Senescence and Regenerative Processes

Senescent cells have been implicated as contributing factors in a variety of age associated diseases and indeed, their removal by a novel class of drugs termed senolytics is successful in alleviating almost any age-associated disease tested in pre-clinical models so far. We will here discuss to what extent senescent cells inhibit regeneration and if senolytics might accelerate regenerative processes.

Chair: Mikolaj Ogrodnik (LBI Trauma)

Speakers:

1. Mikolaj Ogrodnik (LBI Trauma, Austria)
2. Julien Cherfils-Vicini (Côte d'Azur University, France)
3. Lindsay Dawson (Texas A&M University, United States)

18:00-19:30: Poster Session

Chair: Veronika Hruschka

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Tuesday, January 13th

08:30-11:30 / 16:30 – 18:00

08:30 – 11:30 From Innovation to Implementation: Translating Medical Inventions into the Market

Bringing novel medical products from the lab to the clinic involves navigating a complex landscape of development, regulation, and intellectual property. In this session, a representative from a biotech start-up company will share insights on transforming inventions into market-ready solutions, while expert patent attorneys will discuss the crucial role of securing intellectual property rights to protect and commercialize innovation. Attendees will gain a comprehensive understanding of the strategies, challenges, and legal considerations involved in successfully launching medical technologies.

Chairs: Johannes Grillari (LBI Trauma)

Speakers:

1. *Matthias Hackl (TAmiRNA, Austria)*
2. *Gerda Redl (Redl Life Science Patents, Austria)*
3. *Mario Gimona (LBI NVPM, Austria)*
4. *Andreas Traweger (Paracelsus Medical University, Austria)*

BREAK

11:30-16:30

Co-funded by the European Union

16:30 – 18:00 INTERREG Symposium: Nanoprecision Medicine

Be it diagnostics, therapy or research: nanomedicine opens up hitherto unseen possibilities. NanoPrecMed connects leading research institutions from Austria and the Czech Republic with the goal of jointly advancing the development of a competitive biotech/biopharma industry in the regions. The project promotes innovation, education, translation, and economic development in the Austrian-Czech border regions.

Chair: Conny Schneider (LBI Trauma)

Speakers:

1. *Vaclav Brazda (Brno University of Technology, Czech Republic)*
2. *Jaroslaw Jacak (University of Applied Sciences Upper Austria, Austria)*
3. *Johannes Grillari (LBI Trauma, Austria)*

SOCIAL EVENT

18:00

Wednesday, January 14th

08:30-11:30

08:30 – 11:30 Understanding human Disease – from biomimetic Modelling to (patho)mechanistic and translational Research

Human pathologies have been studied for centuries, however, translating the vast amount of existing knowledge into efficient clinical therapies remains challenging. A major hurdle is the lack of adequate organotypic disease models for pre-clinical research, as current approaches barely reflect the complexity and functionality of adult tissues in vivo, e.g. including vascularisation. In addition, diseases which manifest early in development are particularly hard to model because of the heterogeneity observed in embryonic and somatic stem cell models. While Omics approaches have generated vast amounts of useful data, the complexity of translating them into clinically relevant findings requires the use of advanced methods for biomimetic modelling, such as advanced predictive in vitro modelling, integrated big data approaches or high content analyses.
This session will critically deal with recent advances and current challenges in personalised and tissue-engineering based modelling of tissue homeostasis and disease – with the aim to spark discussion on feasible strategies to more accurately represent functional human tissues for identification of druggable pathomechanisms in human pathologies.

Chairs: Peter S. Zammit (King's College London) & Philipp Heher (Newcastle University)
Speakers: TBD

Closing Remarks

Registration

Early bird registration until December 4th
Registration Deadline: December 18th

Information: https://trauma.lbg.ac.at/13th-termis-winterschool/?lang=en
Registration form: https://eveeno.com/13-termis-winterschool

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Scientific Committee:

Susanne Wolbank, Veronika Hruschka, Johannes Grillari (LBI Trauma)
Conny Schneider (NanoPrecMed Consortium)
Stefan Nehrer (University for Continuing Education Krems)
Andreas Teuschl (FH Technikum Wien)
Heinz Redl (Austrian Cluster for Tissue Regeneration)

Event venue:

The TERMIS Winterschool takes place at Hotel "Zum jungen Römer", Römerstraße 18, 5550 Radstadt. The town is reachable via train and there are several buses between the station and the hotel. Alternatively, shuttle service can be organized with the hotel via phone or you can take the opportunity have a nice walk (about 2 km) through beautiful Radstadt.

Cover picture

A truly eye-opening histological image: hematoxylin and eosin staining of an eyeball, showing wounded cornea (top), lens (the dark pink blob) and iris to both sides © Jonas Flatscher