

3rd INTERREG - 8th TERMIS Winterschool 2020

“Musculoskeletal Tissue Regeneration:
From Mechanobiology to in Vitro/in Vivo
Models and Advanced Imaging”



Cornelia Schneider

Radstadt – Austria
January 12th -15th, 2020

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

Preliminary Program

Sunday, January 12th

16:00-18:05 / 18:35-19:45

Welcome

16:00: Heinz Redl

Cell sources

16:15-16:45: "Adipose derived cells – enzymatic and non-enzymatic isolation"
Eleni Priglinger

16:55-17:25: "Cellular senescence as a roadblock to tissue regeneration"
Johannes Grillari

17:35-18:05: "Tissue Copying – the Lego approach to wound healing"
Christiane Fuchs

☞ BREAK ☞
18:05-18:35

Angiogenesis

18:35-19:05: "Angiogenesis and organotypic vasculature"
Wolfgang Holthoner

19:15-19:45: Poster Session + Welcome Drink

Monday, January 13th

08:30-11:40 / 16:30-19:00

Extracellular Vesicles

08:30-09:00: "Recombinat EVs"
Madhushudhan Bobbili

Tendon & Ligament

09:10-09:40: "Tendon inflammation and degeneration – from "basic" discoveries" to biomarker
development
Andreas Traweger

09:50-10:20: "Silk as a versatile biomaterial for muskuloskeletal tissue engineering"
Andreas Teuschl

Neuro-Regeneration

10:30-11:00: "Regeneration of the nervous system – mechanisms and models"
David Hercher

11:10-11:40: "Motorcortex plasticity and impact of extracellular vesicles after spinal cord injury"
Sébastien Couillard-Després

☞ BREAK ☞
11:40-16:30

Light & Mechanobiology

- 16:30-17:00:** “Photomedical Therapies for regenerative medicine”
Joshua Tam
- 17:10-17:30:** “Biophysical Therapies in Regenerative Medicine and their Impact on Vascularization”
Peter Dungal
- 17:40-18:00:** “Pre-clinical Testing and Characterization of Shockwave Therapy”
Paul Slezak
- 18:10-18:30:** “The physics in biophysical therapy research – example: ESWT”
Cyrrill Slezak
- 18:30-19:00: Poster Session**

Tuesday, January 14th

08:30-11:40 / 16:30-17:40

Muscle

- 08:30-09:00:** “Hippo pathway in heart development and disease”
Giancarlo Forte
- 09:10-09:40:** “Role of muscle satellite cells in health and disease”
Pete Zammit
- 09:50-10:20:** “Reprogramming human skeletal muscle (Re)generation”
Francesco Saverio Tedesco

Cartilage

- 10:30-11:00:** “Cartilage and tendon engineering: Large animal models”
Iris Ribitsch
- 11:10-11:40:** “Cartilage Engineering: From bench to bedside”
Sylvia Nürnberger

🌀 BREAK 🌀
11:40-16:30

- 16:30-17:00:** “Development of a dual miRNA/pDNA” delivery system for cartilage tissue engineering”
Lia Andrea Blokpoel Ferreras

Bone

- 17:10-17:40:** “The clinical impact of delayed bone healing and non-union in long bone fractures”
Albert Kröpfl

🌀 SOCIAL EVENT 🌀
18:00

Wednesday, January 15th

08:30-11:40

Bone

08:30-09:00: “Cell-based vs. cell-free approaches for bone regeneration”
Darja Marolt

Bioprinting & Biofabrication

09:10-09:40: “3D Bioprinting”
Aleksandr Ovsianikov

Imaging

09:50-10:20: “From nice pictures to solid data”
Pavol Szomolanyi

10:30-11:00: “Hard Tissue Histology – Methods and Quantitative Evaluation”
Stefan Tangl

11:10-11:40: “Micro-CT imaging of materials and tissues in preclinical models”
Patrick Heimel

Open Innovation in Science

11:50-12:20: “Open Innovation in Science”
Veronika Hruschka

🎀 Closing Remarks 🎀

Registration

**Early bird registration until December 6th
Registration Deadline: December 20th**

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