

5th TERMIS/Expertissues

Winterschool 2017

"In Vitro/In Vivo Preclinical Models and
Imaging in Musculoskeletal Tissue
Regeneration"



Radstadt – Austria
January 15th-18th, 2017

Society of the Advancement of Research in Shock and Tissue Regeneration

Program

Sunday, January 15th

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: "Cells from Human Derived Waste Materials"
Susanne Wolbank

17:35-18:05: "Isolation and Characterisation of Extracellular Vesicles"
Severin Mühleder

❖ BREAK ❖
18:05-18:35

In Vitro Systems

18:35-19:05: "Bioreactors in Musculoskeletal Tissue Engineering"
Christiane Fuchs

19:15-19:45: "Role of Muscle Satellite Cells in Health and Disease"
Pete Zammit



Monday, January 16th

08:30-11:40



In Vitro Systems

08:30-09:00: "Lab-on-a-Chip Technologies for BioScience Applications"
Peter Ertl

09:10-09:40: "3D Bioprinting"
Aleksandr Ovsianikov

Open Innovation

09:50-10:20: "Open Innovation in Science"
Veronika Hruschka

Tendon & Ligament

10:30-11:00: "Tendon Repair - Lessons from tissue development and senescence"
Andreas Traweger

11:10-11:40: "Silk as versatile Biomaterial for Musculoskeletal Tissue Engineering"
Andreas Teuschl

❧ BREAK ❧
11:40-16:30



Monday, January 16th

16:30-19:00

Angiogenesis & Prevascularization

16:30-17:00: “Basics of Angiogenesis and Prevascularization”
Wolfgang Holthoner

17:10-17:40: “Models of Wound Regeneration / Angiogenesis”
Rainer Mittermayr

17:50-18:20: “From Vascular Structures to Functional Tissue”
Paul Slezak and Peter Dungal

Neuro

18:30-19:00: “Investigating Nerve Regeneration – a Researchers Approach”
David Hercher

Tuesday, January 17th

08:30-11:40 / 16:30 – 17:40

Bone

08:30-09:00: “The clinical Impact of delayed Bone Healing and Non-Union in Long Bone Fractures”
Albert Kröpfl

09:10-09:40: “The Role of hypertrophic Chondrocytes in Bone Regeneration and stable Cartilage Formation”
Jon Bernhard

09:50-10:20: “Gene Therapy”
Ara Hacobian



Tuesday, January 17th

08:30-11:40 / 16:30 – 17:40



Cartilage

10:30-11:00: “Cartilage Engineering: From **Bench** to Bedside”
Sylvia Nürnberger

11:10-11:40: “Cartilage Engineering: From Bench to **Bedside**”
Nicole Rotter

❧ **BREAK** ❧
11:40-16:30

16:30-17:00: “Cartilage Engineering: Large Animal Models”
Dirk Barnewitz



Imaging

17:10-17:40: “Micro-CT Imaging of Materials and Tissues in Preclinical Models”
Patrick Heimel

❧ **SOCIAL EVENT** ❧
18:00



Wednesday, January 18th

08:30-10:40



Imaging

08:30-09:00: “From nice Pictures to solid Data“
Pavol Szomolanyi

09:10-09:50: “Hard Tissue Histology-Methods and Quantitative Evaluation“
Stefan Tangl

10:00-10:40: “Morphological In Vitro Methods: LM, SEM, ESEM, CLSM“
Sylvia Nürnberger

🎀 Closing Remarks 🎀

Registration

Early bird registration until December 12th

There will be space for posters in the meeting room and an organized poster discussion with the lecturers during the coffee breaks.

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