

First INTERREG - 6th TERMIS

Winterschool 2018

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

Radstadt – Austria
January 14th-17th, 2018

Society of the Advancement of Research in Shock and Tissue Regeneration

Preliminary Program

Sunday, January 14th

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: "To be determined"
Severin Mühleder

 **BREAK** 
18:05-18:35

In Vitro Systems

18:35-19:05: "Bioreactors in Musculoskeletal Tissue Engineering"
Philipp Heher

19:15-19:45: "Biomaterials Based Approaches for Skeletal Muscle Tissue Regeneration"
Sahar Salehi

Monday, January 15th

08:30-11:40

In Vitro Systems

08:30-09:00: "Lab-on-a-Chip Technologies for BioScience Applications"
Peter Ertl (to be determined)

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 Stem Cells and their Niche – how much do we know?"
Andreas Traweger

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

❧ BREAK ❧
11:40-16:30

Monday, January 15th

16:30-19:00

Angiogenesis & Prevascularization

16:30-17:00: "Angiogenesis and organotypic vasculature"
Wolfgang Holthoner

17:10-17:40: "Extracorporeal shockwave treatment" (tbd)
Paul Slezak

17:50-18:20: "Light treatment in Regenerative Medicine" (tbd)
Peter Dungal

Neuro

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

Tuesday, January 16th

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: "Gene Therapy"
Ara Hacobian (to be determined)

Tuesday, January 16th

08:30-11:40 / 16:30 – 17:40

Cartilage

09:50-10:20: “Cartilage Engineering: From **Bench** to Bedside”
Sylvia Nürnberger

10:30-11:00: “Cartilage and Tendon Engineering: Large Animal Models”
Gil Oreff

Muscle

11:10-11:40: “Hippo pathway in heart development and disease”
Giancarlo Forte

❧ **BREAK** ❧
11:40-16:30

16:30-17:00: “Role of Muscle Satellite Cells in Health and Disease”
Pete Zammit

17:10-17:40: “Transgenic Animal Models”
Pete Zammit's group

❧ **SOCIAL EVENT** ❧
18:00

Wednesday, January 17th

08:30-10:40

Imaging

08:30-09:00: "From nice Pictures to solid Data"

Pavol Szomolanyi (to be determined)

09:10-09:40: "Hard Tissue Histology-Methods and Quantitative Evaluation"

Stefan Tangl

09:50-10:20: "Morphological In Vitro Methods: LM, SEM, ESEM, CLSM"

Sylvia Nürnberger

10:30-11:00: "Micro-CT Imaging of Materials and Tissues in Preclinical Models"

Patrick Heimel

11:10-11:40: "Assessment of bone scaffold deformation behaviour using 4D microtomography"

Dan Kyrir

🎀 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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