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

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:15-16:45</td>
<td>Susanne Wolbank</td>
<td>“Cells from human derived waste/donor materials”</td>
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<tr>
<td>16:55-17:25</td>
<td>Eleni Priglinger</td>
<td>“Adipose derived cells – enzymatic and non-enzymatic isolation”</td>
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<tr>
<td>17:35-18:05</td>
<td>Johannes Grillari</td>
<td>“Cellular senescence as a roadblock to tissue regeneration”</td>
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</tbody>
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**B R E A K**  
18:05-18:35

## Angiogenesis

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>18:35-19:05</td>
<td>Wolfgang Holnthoner</td>
<td>“Angiogenesis and organotypic vasculature”</td>
</tr>
</tbody>
</table>

### 19:15-19:45

**Poster Session + Welcome Drink**

## Monday, January 13th

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

## Extracellular Vesicles

<table>
<thead>
<tr>
<th>Time</th>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-09:00</td>
<td>Madhushudhan Bobbili</td>
<td>“Recombinat EVs”</td>
</tr>
</tbody>
</table>

## Tendon & Ligament

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:10-09:40</td>
<td>Andreas Traweger</td>
<td>“Tendon inflammation and degeneration – from “basic” discoveries” to biomarker development</td>
</tr>
<tr>
<td>09:50-10:20</td>
<td>Andreas Teuschl</td>
<td>“Silk as a versatile biomaterial for muskuloskeletal tissue engineering”</td>
</tr>
</tbody>
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## Neuro-Regeneration

<table>
<thead>
<tr>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30-11:00</td>
<td>David Hercher</td>
<td>“Regeneration of the nervous system – mechanisms and models”</td>
</tr>
<tr>
<td>11:10-11:40</td>
<td>Sébastien Couillard-Després</td>
<td>“Motorcortex plasticity and impact of extracellular vesicles after spinal cord injury”</td>
</tr>
</tbody>
</table>
Mechanobiology
16:30-16:50: “Pre-clinical Testing and Characterization of Shockwave Therapy”
   Paul Slezak
17:00-17:20: “Biophysical Therapies in Regenerative Medicine and their Impact on Vascularization”
   Peter Dungel
17:30-17:50: “The physics in biophysical therapy research – example: ESWT”
   Cyrill Slezak
18:00-18:20: “to be determined”
   Christiane Fuchs

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 Nürnberg

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
**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

**Contact Address:**  
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