Workshop
Regenerative Medicine
NATO STO HFM-243

Berlin, Germany, May 19th - 21st 2014
Preliminary Program
Monday, May 19th 2014

Welcome and Opening Remarks

12:00 - 12:10 Welcome from the Surgeon General Joint Medical Service, German Bundeswehr
Patschke (Koblenz, Germany)

12:10 - 12:20 Presentation NATO-HFM-Panel and the purpose of the workshop – Future NATO STO activities
Mees (Koblenz, Germany)

12:20 - 12:30 Welcome remarks from the chairman
Scherer (Fort Detrick, USA)

12:30 - 12:35 Organizational remarks
Willy (Berlin, Germany)

12:35 - 12:40 Break

Introductory Session I
Chairmen: Weller (Munich, Germany), Scherer (Fort Detrick, USA)

12:40 - 12:55 Introduction to the US military research program
Scherer (Fort Detrick, USA)

12:55 - 13:10 Bone loss and injury: What is the unique military need, and how best to impact a very crowded field?
Pfister (Fort Detrick, USA)

13:10 - 13:25 Introduction to the Armed Forces Institute of Regenerative Medicine (AFIRM) by the consortium Co-Director
Tuan (Pittsburgh, USA)

13:25 - 13:35 The Global Coalition e.V.
Volk (Berlin, Germany)

13:35 - 13:45 ESTROT (European Society of Tissue Regeneration in Orthopaedic and Trauma) – perspective
Calori (Milan, Italy)

13:45 - 14:10 Discussion
All

14:10 - 14:25 Break

Open Questions and Future Perspectives
Chairmen: Kohn (New Jersey, USA), Willy (Berlin, Germany)

14:25 - 14:40 Bone and muscle regeneration: Perspective and remaining challenges
Duda (Berlin, Germany)

14:40 - 14:55 Novel strategies for the engineering of different tissues
Reis (Guimarães, Portugal)

14:55 - 15:10 Stem cells for tissue regeneration: Hope, reality and future
Tuan (Pittsburgh, USA)

15:10 - 15:25 How is clinical experience driving future therapies?
Soria (Sevilla, Spain)

15:25 - 15:55 Discussion
All

15:55 - 16:25 Break
Bone Defect Management I
Chairmen: Boccaccini (Erlangen, Germany), Kollig (Koblenz, Germany)

16:25 - 16:40  Tools for healing of severe bone defects
Bégué (Clamart, France)

16:40 - 16:55  Diamond concept for treatment of infected non unions
Schmidmaier (Heidelberg, Germany)

16:55 - 17:10  From regeneration to substitution: Algorithm of treatment of non-unions and bone defects
Calori (Milan, Italy)

17:10 - 17:25  Scientific and commercial considerations in the design of bioactive scaffolds for bone regeneration
Kohn (New Jersey, USA)

17:25 - 17:40  Application of adult stem cells and biomimetic scaffolds for skeletal tissue engineering and regeneration
Tuan (Pittsburgh, USA)

17:40 - 19:00  Discussion
All & Working groups

20:00  Dinner
## Introductory Session II
Chairman: **Borchers** (Stuttgart, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 08:00 - 08:20 | **The RESTOR program:** Advanced reconstructive and regenerative strategies in response to a decade of combat  
**Davis** (USA) |
| 08:20 - 08:35 | **Discussion**  
All |
| 08:35 - 08:40 | **Break** |

## Bone Defect Management II
Chairmen: **Bégué** (Paris, France), **Schmidmaier** (Heidelberg, Germany)

<table>
<thead>
<tr>
<th>Time</th>
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| 08:40 - 08:55 | **KN:** Synthetic bone substitute that can duplicate the mechanical strength, elasticity and bioactivity of bone  
**Zreiqat** (Sydney, Australia) |
| 08:55 - 09:10 | **Epigenetic changes of MSCs will improve osteogenic regeneration**  
**Nüssler** (Tuebingen, Germany) |
| 09:10 - 09:25 | **Negative impact of CD8+ effector T cells on bone fracture regeneration**  
**Schmidt-Bleek** (Berlin, Germany) |
| 09:25 - 09:40 | **Development of calcium phosphate based biomaterials for bone regeneration and their application in maxillofacial and orthopedic surgery**  
**Loca** (Riga, Latvia) |
| 09:40 - 09:55 | **Novel biomaterials with angiogenic potential (e.g. bioactive glasses) for bone regeneration**  
**Boccaccini** (Erlangen, Germany) |
| 09:55 - 11:25 | **Discussion**  
All & Working groups |
| 11:25 - 12:25 | **Break** |

## Central and Peripheral Nerve Defects
Chairmen: **Feigal** (San Francisco, USA), **Vajkoczy** (Berlin, Germany)

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 12:25 - 12:40 | **KN:** Central and peripheral nerve defect treatment  
**Feigal** (San Francisco, USA) |
| 12:40 - 12:55 | **Challenges of nerve regeneration**  
**Rosen** (Lebanon, USA) |
| 12:55 - 13:10 | **Stem cell therapy in spinal cord injury**  
**Özdemir** (Denizli, Turkey) |
| 13:10 - 13:25 | **Cell based therapies for cerebrovascular diseases and TBI**  
**Bolze** (Leipzig, Germany) |
| 13:25 - 13:40 | **Actual and future perspectives of ocular neuroregeneration and rescue**  
**Scott** (Birmingham, UK) |
| 13:40 - 14:25 | **Discussion**  
All |
| 14:25 - 14:55 | **Break** |
## Soft Tissue Defect Management

**Chairmen:** Schaser (Berlin, Germany), Pfister (Fort Detrick, USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>14:55 - 15:10</td>
<td>Engineering of vascularized human implants and their first application</td>
<td>Walles</td>
<td>Wuerzburg, Germany</td>
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<tr>
<td>15:10 - 15:25</td>
<td>Novel extracellular matrix proteins for cardiovascular tissue regeneration - In vitro elastogenesis - deciphering the key for elastin fiber generation for engineering tissues and organs</td>
<td>Schenke-Layland</td>
<td>Stuttgart, Germany</td>
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<tr>
<td>15:25 - 15:40</td>
<td>Using of autologous cultured keratinocytes in coverage of large tissue defects</td>
<td>Marinescu</td>
<td>Bucharest, Romania</td>
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<tr>
<td>15:40 - 15:55</td>
<td>MSC as drug cells for cell therapy of burns</td>
<td>Lataillade</td>
<td>Clamart/Paris, France</td>
</tr>
<tr>
<td>15:55 - 16:10</td>
<td>Tissue engineering based strategies in tendon repair - Role of complement &amp; influence of inflammation</td>
<td>Schulze-Tanzil</td>
<td>Berlin, Germany</td>
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<tr>
<td>16:10 - 16:25</td>
<td>Generation of cartilage for repairing joints damaged due to injury</td>
<td>Feigal</td>
<td>San Francisco, USA</td>
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<tr>
<td>16:25 - 16:40</td>
<td>Cell therapy in organ transplantation</td>
<td>Soria</td>
<td>Sevilla, Spain</td>
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<td>16:40 - 16:55</td>
<td>New approach in the fight against bacterial infections</td>
<td>De Vos</td>
<td>Brussels, Belgium</td>
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<td>16:55 - 18:10</td>
<td>Discussion</td>
<td>All</td>
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<td>18:10 - 18:30</td>
<td>Break</td>
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## Nutritional Considerations

**Chairmen:** Lataillade (Paris, France), Schenke-Layland (Tübingen, Germany)

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<tbody>
<tr>
<td>18:30 - 18:45</td>
<td>Nutrition – An important factor in regeneration</td>
<td>Nüssler</td>
<td>Tuebingen, Germany</td>
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<td>18:45 - 19:00</td>
<td>The influence of glucose on transplanted cell survival</td>
<td>Petite</td>
<td>Paris, France</td>
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<tr>
<td>19:00 - 19:30</td>
<td>Discussion</td>
<td>All</td>
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<tr>
<td>20:00</td>
<td>Dinner</td>
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**Wednesday, May 21st 2014**

### Introductory Session III
Chairman: **Davis** (San Antonio, USA)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00 - 08:20</td>
<td><strong>Mechanism of blast injuries and potential impact for regenerative medicine</strong>&lt;br&gt;Watts (UK)</td>
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<tr>
<td>08:20 - 08:40</td>
<td><strong>Discussion</strong>&lt;br&gt;All</td>
</tr>
<tr>
<td>08:40 - 08:45</td>
<td><strong>Break</strong></td>
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### Industrial, Regulatory and Socio-Political-Economic Issues
Chairmen: **Reis** (Guimarães, Portugal), **Volk** (Berlin, Germany)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:45 - 09:00</td>
<td><strong>Regulation and pharmaceuticalization of cellular therapies</strong>&lt;br&gt;Soria (Sevilla, Spain)</td>
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<tr>
<td>09:00 - 09:15</td>
<td><strong>Socio-economic barriers to technology transfer in regenerative medicine:</strong>&lt;br&gt;Can we translate regenerative breakthroughs into medical products?&lt;br&gt;Kohn (New Jersey, USA)</td>
</tr>
<tr>
<td>09:15 - 09:45</td>
<td><strong>Discussion</strong>&lt;br&gt;All</td>
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<tr>
<td>09:45 - 10:05</td>
<td><strong>Break</strong></td>
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### Regenerative Laboratory Techniques
Chairmen: **Tuan** (Pittsburgh, USA), **Duda** (Berlin, Germany)

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:05 - 10:20</td>
<td><strong>Biofabrication strategies to develop novel scaffolds for regenerative medicine</strong>&lt;br&gt;(biomaterials for cell printing)&lt;br&gt;Boccaccini (Erlangen, Germany)</td>
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<tr>
<td>10:20 - 10:35</td>
<td><strong>Bioprinting and development of cell/matrix-based bioinks</strong>&lt;br&gt;Borchers (Stuttgart, Germany)</td>
</tr>
<tr>
<td>10:35 - 10:50</td>
<td><strong>Technological developments for stem cell expansion and differentiation / biomaterial testing / cell based therapies and testing systems</strong>&lt;br&gt;Charwat (Vienna, Germany)</td>
</tr>
<tr>
<td>10:50 - 11:05</td>
<td><strong>New modular system for generation of antigen-specific T-cells for adoptive therapy</strong>&lt;br&gt;Volk (Berlin, Germany)</td>
</tr>
<tr>
<td>11:05 - 11:20</td>
<td><strong>Large animal modeling in regenerative medicine: application examples</strong>&lt;br&gt;Bolte (Leipzig, Germany)</td>
</tr>
<tr>
<td>11:20 - 12:05</td>
<td><strong>Discussion</strong>&lt;br&gt;All</td>
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<tr>
<td>12:05 - 13:05</td>
<td><strong>Break</strong></td>
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</tbody>
</table>
Diagnostic Methods, Biomarkers and Monitoring Techniques

Chairmen: Walles (Wuerzburg, Germany), Marinescu (Bucharest, Romania)

13:05 - 13:20  Biomarkers in regenerative therapy & Immune regeneration in critically ill patients - biomarkers for stratification of ICU patients into risk groups and reconstitution of „immunoparalysis“ by immunostimulation of sepsis patients
Volk (Berlin, Germany)

13:20 - 13:35  Non-invasive optical tools for cell, tissue and organ monitoring
Schenke-Layland (Stuttgart, Germany)

13:35 - 13:50  Imaging of decellularized and recellularized human dermal matrices by real time non invasive HD-OCT and RCM
Draye (Brussels, Belgium)

13:50 - 14:05  Inflammatory signaling for bone regeneration
Zreiqat (Australia)

14:05 - 14:20  Innovative, mobile and robust diagnosis of cerebrovascular disorders and brain monitoring
Boltze (Leipzig, Germany)

14:20 - 14:50  Discussion
All

15:05 - 15:20  Break

Closing Remarks

Kohn (New Jersey, USA)

15:50 - 16:05  Initial thoughts from the workshop
Willy (Berlin, Germany)

16:05 - 16:35  Discussion
All & comments

16:35 - 16:45  Closing remarks
Scherer (Fort Detrick, USA / Berlin, Germany)

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