# Fourth Annual Symposium on Regenerative Rehabilitation

**As of June 24, 2015**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thursday, Sept. 24th</strong></td>
<td>Registration Open</td>
<td>Doubletree: Atrium-2nd Floor</td>
</tr>
<tr>
<td>1:30-3:00pm</td>
<td>Pre-Symposium Workshop: ‘Regenerative Medicine 101’</td>
<td>University Halls II-IV</td>
</tr>
<tr>
<td>2:30-3:30pm</td>
<td>Fabrisia Ambrosio, PhD, MPT Assistant Professor, University of Pittsburgh</td>
<td></td>
</tr>
<tr>
<td><strong>6:00-7:30pm</strong></td>
<td><strong>Opening of Symposium</strong> (day one)</td>
<td>Mayo campus: Gonda Bldg. Geffen Auditorium</td>
</tr>
<tr>
<td>6:00-6:10pm</td>
<td>Opening Plenary Session: ‘Pathway to the clinic: Translational Examples of Regenerative Rehabilitation for the Treatment of Volumetric Muscle Injuries”</td>
<td>University Halls I-II-IV</td>
</tr>
<tr>
<td>6:10-6:35pm</td>
<td>Welcome and Introduction</td>
<td>Landow Atrium Gonda Bldg.</td>
</tr>
<tr>
<td>6:35-7:00pm</td>
<td>Moderator: Michael Boninger, MD (tentative)</td>
<td></td>
</tr>
<tr>
<td>7:00-7:25pm</td>
<td>Benjamin T. Corona, PhD Research Physiologist, Extremity Trauma and Regenerative Medicine Center for the Intrepid, San Antonio Military Medicine Center San Antonio, TX</td>
<td></td>
</tr>
<tr>
<td><strong>7:25pm</strong></td>
<td>Stephen F. Badylak, DVM, PhD Professor of Surgery University of Pittsburgh</td>
<td></td>
</tr>
<tr>
<td><strong>7:30-8:30pm</strong></td>
<td>evening Cocktail Reception</td>
<td></td>
</tr>
<tr>
<td><strong>Friday, Sept. 25th</strong></td>
<td>Registration Opens</td>
<td>University Halls II-IV</td>
</tr>
<tr>
<td>7:00am</td>
<td>Continental Breakfast Seating available in: University Hall I, Commons and Boardrooms I &amp; II</td>
<td></td>
</tr>
<tr>
<td>7:15-8:15am</td>
<td>Local Keynote Speaker:</td>
<td></td>
</tr>
<tr>
<td>8:00am</td>
<td>Anthony J. Windebank, MD Professor of Neurology, Mayo Clinic Topic: Stem Cell Therapies for the treatment of ALS</td>
<td></td>
</tr>
<tr>
<td>8:00-8:15am</td>
<td>Introductory Remarks</td>
<td></td>
</tr>
<tr>
<td>8:15-9:15am</td>
<td>University Halls II-IV</td>
<td></td>
</tr>
</tbody>
</table>
Fourth Annual Symposium on Regenerative Rehabilitation

As of June 24, 2015

9:15-9:30am  
Break  
Atrium-2nd Floor

9:30-10:55am  
**Session #1: Interfacing Rehabilitation with Gene Therapies**  
University Halls II-IV

9:30-9:55am  
Andre Terzic, MD, PhD  
Director, Mayo Clinic Center for Regenerative Medicine  
*Title:* ‘Regenerative Medicine Blueprint: From Principles to Practice’

9:55-10:20am  
Martin Childers, DO, PhD  
Professor of Rehabilitation Medicine, University of Washington  
*Topic:* Gene Therapy for neuromuscular disease

10:20-10:45am  
Christopher H. Evans, PhD  
Professor of Orthopedics and Physical Medicine and Rehabilitation,  
Mayo Clinic  
*Topic:* Gene Therapy for Cartilage and Bone Regeneration

10:45-10:55am  
Short talk selected from abstracts – TBA

10:55-11:05am  
Break  
Atrium-2nd Floor

11:05-12:30pm  
**Session #2: Mechanical Stimulation as a Tool to Promote Muscle Regeneration**  
University Halls II-IV

11:05-11:30am  
Nathan LeBrasseur, PhD  
Associate Professor of Physical Medicine and Rehabilitation,  
Mayo Clinic  
*Topic:* The Effect of Exercise on Skeletal Muscle Signaling Responses

11:30-11:55am  
George J. Christ, PhD  
Professor of BME and Orthopaedic Surgery  
University of Virginia  

11:55-12:20pm  
Fabrisia Ambrosio, PhD, MPT  
Assistant Professor, University of Pittsburgh  
*Topic:* Electric Stimulation Rejuvenates Muscle Stem Cell Behavior

12:20-12:30pm  
Short talk selected from abstracts – TBA

12:30-1:30pm  
Lunch Break – Buffet Lunch  
Seating available in University Hall I, Commons and Boardrooms I & II  
Atrium-2nd Floor

12:45-1:15pm  
Meet the Mentor  
Commons Room

1:15-2:00pm  
Poster Session and networking  
Chancellor Room
Fourth Annual Symposium on Regenerative Rehabilitation

As of June 24, 2015

2:00-3:00pm  Defining Compatibility Gaps and Programmatic Needs: DoD and VA Perspectives
Moderator: Thomas Rando, MD, PhD (tentative)
Speakers: TBD

University Halls II-IV

3:00-3:15pm  Break

Atrium-2nd Floor

3:15-4:50pm  Session #3: Manipulation of the Microenvironment to Enhance Neurological Regeneration and Recovery

3:15-3:50pm  Linda Noble – Haeusslein, PhD
Professor of Neurological Surgery and Physical Therapy and Rehabilitation, University of California, San Francisco
Topic: Optimizing a Platform for Regenerative Strategies in SCI

University Halls II-IV

3:50-4:15pm  Randy Trumbower, PT, PhD
Assistant Professor of Rehabilitation Medicine, Emory University
Topic: Intermittent Hypoxia for the Treatment of SCI

4:15-4:40pm  Kendall H. Lee, MD, PhD
Professor of Neurosurgery and Physiology, Mayo Clinic
Topic: Limb Reanimation in SCI

4:40-4:50pm  Short talk selected from abstracts – TBA

4:50-5:00pm  Break

Atrium-2nd Floor

5:00-6:00pm  Keynote Speaker:
Tony Wyss-Coray, PhD
Professor of Neurology, Stanford University
Topic: Systemic factors regulating brain function and behavior

University Halls II-IV

6:00pm  Conclusion of day two

Mayo Clinic:
Dan Abraham
Healthy Living Ctr.

6:00-8:00pm  Reception and Tours of Mayo Campus facilities

Sat, Sept. 26th
7:15-8:15am  Continental Breakfast

Doubletree:
Atrium-2nd Floor

8:00am  Opening of Symposium (last day)

University Halls II-IV

8:00-9:00am  Discussion on ‘Global Perspectives in Regenerative Rehabilitation’
Moderated by: Michael Boninger, MD
Medical Director of the Center of Excellence in Wheelchairs and Associated Rehabilitation Engineering at the VA Pittsburgh Health Care System and Professor and Chair, Physical Medicine and Rehabilitation, University of Pittsburgh
Fourth Annual Symposium on Regenerative Rehabilitation

As of June 24, 2015

9:00-9:10am  Break  Atrium-2nd Floor

9:10-10:25am  Session #4: Interfacing Rehabilitation with Stem Cell Therapies  University Halls II-IV

  9:10-9:35am  George H. Kraft, MD  Professor of Rehabilitation Medicine and Neurology  University of Washington  
  Topic: Stem Cell Therapies for the Treatment of Multiple Sclerosis

  9:35-10:00am  Marni D. Boppart, ScD  Associate Professor of Kinesiology and Community Health  University of Illinois  
  Topic: Stem Cell Transplantation and Exercise for Muscle Regeneration

  10:00-10:25am  Carmen Terzic, MD, PhD  Chair, Physical Medicine and Rehabilitation, Mayo Clinic  
  Topic: Stem Cell Therapies and Cardiovascular Rehabilitation

10:25-11:00am  Panel Discussion on ‘Vision of this emerging field from the educators and students perspectives’  University Halls II-IV
  Moderated by: Anthony Delitto, PhD, PT, FAPTA  Professor and Associate Dean of Research, School of Health and Rehabilitation Sciences, University of Pittsburgh

11:00-11:15am  Closing Remarks (Announcement regarding the 5th Symposium)  University Halls II-IV
  Randy Trumbower, PT, PhD  Assistant Professor of Rehabilitation Medicine, Emory University

11:15am  Conclusion of Symposium