

6th Annual Symposium on Regenerative Rehabilitation
Nov 1-3, 2017
Pittsburgh, PA
Tentative Agenda

Wednesday, November 1st

	Location: PPG Place, Winter Gardens
6:00pm	Doors open
6:30pm	Welcome to Pittsburgh and Opening Remarks: Michael Boninger, MD Professor & Vice Chair for Research, Physical Medicine & Rehabilitation University of Pittsburgh Schools of the Health Sciences Senior Medical Director, Post-Acute Care for the Health Service Division Vice President for Medical Affairs for Community Provider Services UPMC
6:40 – 9:00pm	Special Session on Regenerative Rehabilitation for Traumatic Brain Injury (TBI)
6:40-6:50pm	Rocky S. Tuan, PhD Distinguished Professor Director, Center for Cellular and Molecular Engineering Professor and Executive Vice Chairman for Orthopaedic Research Arthur J. Rooney, Sr. Chair Professor in Sports Medicine Department of Orthopaedic Surgery Director, Center for Military Medicine Research Associate Director, McGowan Institute for Regenerative Medicine University of Pittsburgh School of Medicine Professor, Departments of Bioengineering & Mechanical Engineering and Materials Science <i>Title: Overview and Development of TBI Research Program at Pittsburgh</i>
6:50-7:20pm	Steven W. Levison, PhD Professor of Neuroscience Director, Laboratory for Regenerative Neurobiology Department of Pharmacology, Physiology and Neuroscience Rutgers University, Cancer Research Center <i>Title: Cell Replacement After Traumatic Brain Injuries: Contributions of Resident vs. Transplanted Neural Stem Cells</i>
7:20-7:50pm	Patrick M. Kochanek, MD, MCCM Ake N. Grenvik Professor of Critical Care Medicine Vice Chair, Department of Critical Care Medicine Professor of Anesthesiology, Pediatrics, Bioengineering, and Clinical and Translational Science Director, Safar Center for Resuscitation Research Children's Hospital of Pittsburgh of UPMC <i>Title: New Therapies for TBI: Operation Brain Trauma Therapy (OBTT) and Beyond</i>
7:50-8:20pm	Elizabeth R. Skidmore, PhD, OTR/L, FAOTA Chair and Associate Professor, Department of Occupational Therapy School of Health and Rehabilitation Sciences University of Pittsburgh <i>Title: Optimizing TBI Rehabilitation to Promote Regeneration and Recovery</i>
8:20-9:00	Panel Discussion
9:00-10:00pm	Networking Reception with heavy hors d'oeuvres and wine bar

Thursday, November 2nd

	Location: Wyndham Grand Downtown Pittsburgh	
7:45 to 8:45am	Continental Breakfast available Seating available in Sterling I, II and III	Sterlings Foyer
8:30 – 8:50am 8:30-8:40am	Introduction: Fabrisia Ambrosio, PhD, MPT Associate Professor, Department of Physical Medicine and Rehabilitation Director, Cellular Rehabilitation Laboratory University of Pittsburgh	Commonwealth Two
8:40-8:50am	Welcome: Hiroshi Kuroki, PT, PhD Professor, Rehabilitation Science for Bone and Joint Disorders Human Health Sciences Kyoto University, Japan	
8:50 – 9:40am	Keynote Speaker: David J. Mooney, PhD Fellow, National Academy of Inventors (NAI) Robert P. Pinkas Family Professor of Bioengineering Wyss Institute for Biologically Inspired Engineering Harvard John A. Paulson School of Engineering and Applied Sciences Harvard University <i>Title: Exploiting Mechanics to Promote Regeneration</i>	Commonwealth Two
9:40 – 9:55am	Morning Break	Commonwealth Foyer
9:55 – 11:55am	Session 1: on Mechanobiology Part 1 <i>Moderator: TBA</i>	Commonwealth Two
9:55-10:20am	Adam Feinberg, PhD Associate Professor, Departments of Materials Science & Engineering and Biomedical Engineering Carnegie Mellon University <i>Title: Advanced Biofabrication Strategies for Engineering 3D Muscle Tissue</i>	Commonwealth Two
10:20-10:45am	Thomas A. Rando, MD, PhD Neurology Service Chief, VAPAHCS Professor, Department of Neurology and Neurological Sciences Stanford University School of Medicine <i>Title: Regenerative Rehabilitation Therapy for Volumetric Muscle Loss</i>	Commonwealth Two
10:45-11:10am	Hidetoshi Sakurai, MD, PhD Associate Professor, Center for iPS Cell Research and Application Kyoto University, Japan <i>Title: Regenerative Therapy for Muscle Dystrophy by Transplantation of Muscle Stem Cells Derived from Human iPS Cells</i>	Commonwealth Two
11:10-11:35am	Ngan F. Huang, PhD Biomedical Engineer, Veterans Affairs Palo Alto Health Care System Assistant Professor, Department of Cardiothoracic Surgery Stanford University	Commonwealth Two

	<i>Title: Physiologically Oriented Engineered Skeletal Muscle for Treatment of Volumetric Muscle Loss</i>	
11:35-11:45am	Oral Presentation selected from abstracts TBA	Commonwealth Two
11:45-11:55am	Oral Presentation selected from abstracts TBA	Commonwealth Two
11:55 – 2:00pm	Lunch and networking Buffet lunch will be provided Seating available in Sterling Rooms I, II & III	Sterlings Foyer
2:00 – 3:15pm	Session 1: on Mechanobiology Part 2 <i>Moderator: TBA</i>	Commonwealth Two
2:00–2:25pm	Martin Stoddart, PhD Principal Scientist, Stem Cell Focus Area AO Research Institute Davos, Switzerland <i>Title: Multiaxial Load as a Driver of Human MSC Chondrogenesis</i>	Commonwealth Two
2:25–2:50pm	Keiji Naruse, MD, PhD Professor and Chair, Department of Cardiovascular Physiology Graduate School of Medicine, Dentistry and Pharmaceutical Sciences Okayama University, Japan <i>Title: Mechanomedicine: Mechanobiology and Its Implications for the Field of Regenerative Rehabilitation</i>	Commonwealth Two
2:50-3:15pm	William Thompson, DPT, PhD Assistant Professor, Department of Physical Therapy School of Health & Rehabilitation Sciences Indiana University – Purdue University Indianapolis <i>Title: Mechanical Control of MSC Fate: The Role of the Actin Cytoskeleton</i>	Commonwealth Two
3:15 – 5:45pm	Session 2: Neurologic Applications of Regenerative Rehabilitation <i>Moderator: Linda Noble</i>	Commonwealth Two
3:15–3:40pm	S. Thomas Carmichael, MD, PhD Professor and Chair, Department of Neurology Geffen School of Medicine at UCLA Co-Director, UCLA Broad Stem Cell Center <i>Title: Re-Building Brain Tissue After Stroke</i>	Commonwealth Two
3:40–4:05pm	Michel Modo, PhD Associate Professor, Departments of Radiology, Bioengineering and Center for Neural Basis Cognition University of Pittsburgh <i>Title: Exploring Synergistic Effects of Physical and Cell Therapy in Stroke</i>	Commonwealth Two
4:05 – 4:20pm	Afternoon Break	Lobby of Commonwealth

4:20–4:45pm	<p>Lawrence Wechsler, MD Henry B. Higman Professor and Chair, Department of Neurology University of Pittsburgh School of Medicine Vice President for Telemedicine UPMC <i>Title: Clinical Trials of Stem Cell Transplantation for Treatment of Stroke</i></p>	Commonwealth Two
4:45–5:10pm	<p>Carmelo Chisari, MD University Hospital of Pisa Pisa, Italy <i>Title: Clinical and Neurophysiological Evidences of Brain Plasticity</i></p>	Commonwealth Two
5:10–5:35pm	<p>George Kraft, MD Emeritus Professor, Department of Rehabilitation Medicine and Neurology Institute for Stem Cell and Regenerative Medicine University of Washington <i>Title: The Use of Autologous Stem Cells in Rehabilitation of Multiple Sclerosis</i></p>	Commonwealth Two
5:35–5:45pm	<p>Oral Presentation selected from abstracts <i>TBA</i></p>	Commonwealth Two
5:45 – 7:00pm	<p>Poster Session Poster presenters will be at their posters during this time for questions</p>	Commonwealth One
6:15 – 7:15pm	<p>Networking Reception with heavy hors d'oeuvres and wine bar</p>	Commonwealth Foyer, One & Two
7:00 – 8:00pm	<p>Special Session Panel Discussion: “Glories, Gripes & Grapes” <i>Moderator: TBA</i> Panelists:</p> <p>Esther E. Dupont-Versteegden, PhD Professor, Director Rehabilitation Sciences Doctoral Program Endowed University Professor in Health Sciences Division of Physical Therapy, College of Health Sciences University of Kentucky</p> <p>G. Kelley Fitzgerald, PT, PhD, FAPTA Associate Dean of Graduate Studies, School of Health and Rehabilitation Sciences Professor, Department of Physical Therapy Professor, Clinical and Translational Science Institute Director, Physical Therapy Clinical and Translational Research Center University of Pittsburgh</p> <p>Ralph Nitkin, PhD Health Scientist Administrator NIH (NICHD)</p> <p>Kimberly Topp, PT, PhD, FAAA Professor and Chair, Dept. of Physical Therapy & Rehabilitation Science University of California, San Francisco</p>	Commonwealth Two

Friday, November 3rd

	Location: Wyndham Grand Downtown Pittsburgh	
7:45 – 8:45	Continental Breakfast available General seating available in Sterling I & II	Sterlings Foyer
7:30 – 8:15am	Special Interest Group: Clinical-track Breakfast / Networking Spend the breakfast meeting with clinicians and clinical-track students, sharing stories, debating treatments and brainstorming strategies. As the frontline in dealing with this new clinical population, your ideas and enthusiasm are key to translational success of Regenerative Rehabilitation.	Sterling III
8:30am	Fabrisia Ambrosio, PhD, MPT Associate Professor, Department of Physical Medicine and Rehabilitation Director, Cellular Rehabilitation Laboratory University of Pittsburgh	Commonwealth Two
8:35 – 11:00am	Session 3: Translate Your Science: Technologies, Methods & Approaches <i>Moderator: TBA</i>	Commonwealth Two
8:35 – 8:50am	Ryosuke Ikeguchi, MD, PhD Associate Professor Department of Orthopaedic Surgery and Rehabilitation Medicine Kyoto University Graduate School of Medicine <i>Title: Rehabilitation and Regeneration of Peripheral Nerve Injury</i>	Commonwealth Two
8:50 – 9:05am	And Koichi Nakayama, MD, PhD Professor and Chair, Department of Regenerative Medicine and Biomedical Engineering, Faculty of Medicine Saga University, Saga City, Japan <i>Title: Introduction of Scaffold-Free Bio 3D Printer for Organ Regeneration</i>	
9:05 - 9:10am	Joint Question and Answer session	
9:10 – 9:35am	Robert Gaunt, PhD Assistant Professor, Department of Physical Medicine and Rehabilitation University of Pittsburgh <i>Title: Human brain-computer interfaces for sensorimotor science and rehabilitation</i>	Commonwealth Two
9:35 – 9:50am	George J. Christ, PhD Professor, Departments of Biomedical Engineering and Orthopaedic Surgery Mary Muilenburg Stamp Professor of Orthopaedic Research Director, Basic and Translational Research in Orthopaedic Surgery Head, Laboratory of Regenerative Therapeutics University of Virginia <i>Title: Comprehensive Evaluation of VML Injury and Repair in Animal Models: From Biological Relevance to Biomechanics</i>	Commonwealth Two
	And	

9:50 – 10:05am	Shawn Russell, PhD Assistant Professor, Department of Orthopaedic Surgery Lab Director, Motion Analysis and Motor Performance University of Virginia. <i>Title: Quantifying the Impact of TA VML Injuries on Rat Gait</i>	
10:05-10:10am	Joint Question and Answer session	
10:10 – 10:25am	Morning Break	Commonwealth Foyer
10:25-10:50am	James J. Irrgang, PT, PhD, ATC, FAPTC Professor and Chair, Department of Physical Therapy School of Health and Rehabilitation Sciences Vice Chair, Clinical Outcomes Research Department of Orthopaedic Surgery School of Medicine University of Pittsburgh <i>Title: Evaluating Clinical Outcomes of Biological Treatments</i>	Commonwealth Two
10:50-11:00am	Oral Presentation selected from abstracts TBA	Commonwealth Two
11:00am	Final remarks	Commonwealth Two
11:15pm	Symposium adjournment	
12:00pm	Hotel check-out	
Optional Post-Symposium Workshops: Preregistration required; no on-site registration will be offered. Box lunch will be provided.		Sterling Rooms
12:00-12:30pm	Workshop check-in – pick-up boxed lunch	Sterlings Foyer
12:30 – 1:30pm	Regenerative Rehabilitation Research Training – concurrent sessions	
Track 1	Clinical Research for Regenerative Rehabilitation Marcas Bamman, PhD Director, National Rehabilitation Research Resource to Enhance Clinical Trials (REACT) Director, Center for Exercise Medicine University of Alabama, Birmingham	Sterling I
Track 2	<i>Rehabilitation Strategies in Preclinical Models: An Overview of the Fundamentals</i> Linda Noble, PhD Professor, Department of Neurology and Psychology Dell Medical School The University of Texas at Austin And Gordon L. Warren, PhD, FACSM Distinguished University Professor, Department of Physical Therapy Byrdine F. Lewis School of Nursing and Health Professions Georgia State University	Sterling III