



# NeuroRegeneration Symposium

September 1-2, 2015

BioScience Research Collaborative (BRC)

*The symposium will be in the auditorium, unless otherwise noted.*

## September 1, 2015

3:45 PM Welcome, Introductions, Charge to Participants

4:00 PM Keynote Address

***Combined Electrical Stimulation and Cell Engineering to Formulate New Circuits in the Chronically Injured Spinal Cord***

Philip Horner, Houston Methodist Research Institute

5:00 PM Posters and Networking Reception (Event Space)

## September 2, 2015

9:00 AM Overview

9:10 AM **Panel Discussion: Neuro Training Programs**

Moderator: Ben Deneen, Baylor College Medicine

Sean Savitz, PI, University of Texas Houston Stroke Training Program (T32 NINDS)

Rob Raphael, PI, NeuroEngineering IGERT (NSF)

Charles Cox, Representative, Potential NeuroRegeneration Training Program

Short Talks, Session I

Chair: Ben Deneen, Baylor College of Medicine

10:00 AM ***Stem Cell Therapy for Stroke: From Bench to Clinical Trials***

Sean Savitz, University of Texas Health Science Center at Houston

10:35 AM ***Cell Therapies for Neurotrauma***

Charles Cox, University of Texas Health Science Center at Houston

11:10 AM ***Long Term Striatal Changes in Functional Connectivity in Veterans with Mild Traumatic Brain Injury (mTBI)***

Mary Newsome, Michael E. DeBakey VA Medical Center/Baylor College of Medicine

11:45 AM Session Discussion

12:00 PM **Breakout Session with Lunch (Event Space)**

Short Talks, Session II

Chair: Laura Smith Callahan, University of Texas Health Science Center at Houston

1:30 PM ***Scalable Neurotechnologies***

Jacob Robinson, Rice University

2:05 PM ***The Challenges of Mammalian Hair Cell Regeneration***

Andy Groves, Baylor College of Medicine

2:40 PM ***Localized Inhibition of P2X7 Receptors Using a Nanocomposite Hydrogel Improves Locomotion and Bladder Function after Spinal Cord Injury in Rats***

Alvaro Munoz, Houston Methodist Research Institute

3:15 PM ***Daam2-PIP5K is a Regulatory Pathway for Wnt Signaling and Therapeutic Target for Remyelination in the CNS***

Hyun-Kyoung Lee, Baylor College of Medicine

3:40 PM Session Discussion

4:00 PM *Break*

4:10 PM **Break-In Discussion**

5:00 PM Conclusion, Closing Remarks, and Awards

5:10 PM Reception (Event Space)

Gulf Coast Consortia, [www.gulfcoastconsortia.org](http://www.gulfcoastconsortia.org)

A collaboration of: Rice University, Baylor College of Medicine, University of Houston, University of Texas Health Science Center at Houston, University of Texas Medical Branch at Galveston, University of Texas MD Anderson Cancer Center, Institute of Bioscience and Technology-TAMHSC

