

Weekly Colloquium

Tuesday, 4/24/2018, 12:30pm, Billings Building – Rosedale Conference Room

“Intrinsic mechanisms for cerebral ischemic tolerance”

Miguel A. Perez-Pinzon, Ph.D.

**Miller Professor of Neurology, Neuroscience Program
Vice-Chair for Basic Science (Neurology)**

**Director, Cerebral Vascular Disease Research Laboratories
University of Miami Miller School of Medicine**

Miami, FL



My main research expertise is in the area of cerebral ischemia, which results from cardiac arrest or a stroke. My research focuses on the areas of synaptic, vascular and mitochondrial dysfunction that ensue following cerebral ischemia. Over the last 22 years, my laboratory has investigated the signaling pathways that lead to neuroprotection against ischemia following ischemic preconditioning (IPC). Another major emphasis has been our work in cardiac arrest and its devastating effect on hippocampal pathology. Our overall goal is to develop new therapies for pre- and post-treatment in stroke and cardiac arrest patients

Publications:

Stradecki-Cohan, H. M., Youbi, M., Cohan, C. H., Saul, I., Garvin, A. A., Perez, E., Dave, K. R., Wright, C. B., Sacco, R. L. & Perez-Pinzon, M. A. Physical Exercise Improves Cognitive Outcomes in 2 Models of Transient Cerebral Ischemia. *Stroke* **48**, 2306-2309, (2017). PMID:28663509

Koronowski, K. B., Khoury, N., Saul, I., Loris, Z. B., Cohan, C. H., Stradecki-Cohan, H. M., Dave, K. R., Young, J. I. & Perez-Pinzon, M. A. Neuronal SIRT1 (Silent Information Regulator 2 Homologue 1) Regulates Glycolysis and Mediates Resveratrol-Induced Ischemic Tolerance. *Stroke* **48**, 3117-3125, (2017). PMID:29018134

Cohan, C. H., Stradecki-Cohan, H. M., Morris-Blanco, K. C., Khoury, N., Koronowski, K. B., Youbi, M., Wright, C. B. & Perez-Pinzon, M. A. Protein kinase C epsilon delays latency until anoxic depolarization through arc expression and GluR2 internalization. *J Cereb Blood Flow Metab* **37**, 3774-3788, (2017). PMID:28585865

