INDUCTION AND RESOLUTION OF CNS NEUROINFLAMMATION AND NEUROTOXICITY—Satellite symposium to SFN

Friday, October 18, 2019

Loyola University Chicago (LUC) Water Tower Campus, Regents Hall, 111 E. Pearson

Organizers: Drs. Julie Andersen, Michael Collins and Jean Harry [to register: harry@nih.gov]

SPONSORS: Neurotoxicity Society (NTS); GLENN Foundation for Medical Research; SENS Research Foundation; LUC Dept. Mol. Pharmacology & Neuroscience

<mark>8:30 a</mark>	m WELCOME and INTRODUCTION: Elaine Del-Bel, Ph.D. Universidade de Sao Paolo, NTS President
Session 1: Systemic /Central Interactions: Impact on Inflammation and Neurodegeneration Chairs: Elaine Del-Bel, Ph.D; Michael A. Collins, Ph.D.	
8:35 9:15 9:45	 Immunopathogenic brain invasion in aging and Alzheimer's disease Lennart Mucke, M.D., Gladstone Institute of Neurological Disease, UCSF, San Francisco, CA Role of intestinal microbiota-derived neuroinflammation in Parkinson disease Ali Keshavarzian, M.D., Rush University Medical Center, Chicago, IL Transneuronal Propagation of Pathologic α-Synuclein from the Gut to the Brain Models Parkinson's Disease Hanseok Ko, Ph.D., John Hopkins University Medical School, Baltimore, MD
10:15 BREAK	
Session 2: Identifying Targets and Mechanisms of Propagation or Resolution Chairs: Pablo Caviedes M.D., Ph.D., University of Chile; Jean Harry, Ph.D., NIEHS/NIH	
10:55	 Mechanisms and consequences of alpha-synuclein cell-to-cell spread in neuronal cells Edward M. Campbell, Ph.D., Microbiology & Immunology, Loyola Univ.Medical School, Chicago Novel GPCR signaling in neuroprotection derived from essential fatty acids Hee-Yong Kim, Ph.D., National Institute of Alcohol Abuse & Alcoholism, NIH, Bethesda, MD Omega-3 DHA and neuronal resolution in alcohol-induced neurotoxicity Michael A. Collins, Ph.D. Molecular Pharmacology, Loyola Univ. Medical School, Chicago
12:05 Lunch Break (on own)	
Session 3: Contribution of Senescence in Neurological and Neurodegenerative Disorders Chair: Julie Andersen, Ph.D.	
1:20 1:50 2:20 2:50	 Role of cellular stress in priming cellular senescence Viviana Perez, Ph.D., Linus Pauling Institute, Oregon State University Cellular senescence and its interplay with the immune system Armit Sharma, Ph.D., SENS Research Foundation Linking cellular senescence to neurodegenerative disease Darren Baker, Ph.D., Biochemistry and Molecular Biology, Mayo Clinic Rochester, NY Cellular senescence and its potential contribution to Parkinson's disease Julie Andersen, Ph.D., Buck Institute for Research in Aging
3:20	BREAK
3:30	Proteomic tools to decipher mechanisms of senescence in aging and age-related diseases
4:00 4:30 5:00	Birgit Schilling, Ph.D, Buck Institute for Research in Aging, Novato, CA Senolytics alter brain structure and function in tauopathy mouse models Miranda Orr, Ph.D., Barshop Institute, University of Texas, San Antonio, TX Senolytics: a potential new therapeutic avenue for treating neuropsychiatric disorders? Diana Jurk, Ph.D., Biol. Aging and Age-Related Disease Lab, Mayo Clinic Rochester, NY Closing Questions and Wrap-Up – Jean Harry, Ph.D.