

PROGRAM

Molecular Mechanisms Driving Physiology and Pathology During Aging

Baldwin Auditorium (First Floor) 303 East Superior Street Chicago, Illinois 60611

Friday, October 7, 2022 8:150am - 6:00 pm

MORNING SESSION Program Chair: Navdeep Chandel, PhD

8:15am	9:00am	Breakfast – Refreshments Provided
9:00am	9:10am	Welcome and Introduction GR Scott Budinger, MD Pulmonary and Critical Care Medicine, Northwestern University
9:10am	9:30am	Introducing the Potocsnak Longevity Institute at Feinberg School of Medicine
		Douglas Vaughan, MD Department of Medicine, Northwestern University
9:30am	10:00am	Why diseases are tissue-specific? Lessons from mitochondrial diseases and stress responses
		Anu Suomalainen, MD, PhD University of Helsinki, Finland
10:00am	10:10am	Discussion
10:10am	10:25am	Mitochondrial integrated stress response controls lung epithelial cell fate
		SeungHye Han, MD Northwestern University
10:25am	10:30am	Discussion
10:30am	11:00am	Break – Refreshments Provided
11:00am	11:30am	Systematic functionalization of redox-regulated protein cysteines in aging Edward Chouchani, PhD Harvard University
11:30am	11:40am	Discussion
11:40am	11:55am	The aging brain microenvironment drives development of disease-associated microglia
		Rogan Grant Northwestern University
11:55am	12:00pm	Discussion

12:00pm	1:15pm	Lunch – (On Your Own)		
		AFTERNOON SESSION		
Program Chair: Benjamin Singer, MD				
1:15pm	1:45pm	Transitional states in regeneration and disease		
		Purushothama Rao Tata, PhD		
1:45pm	1:55pm	Discussion		
2:10pm	2:25pm	Profiling the TCR repertoire landscape during severe pneumonia		
		Luisa Morales-Nebreda, MD Northwestern University		
2:05pm	2:15pm	Discussion		
2:15pm	2:45pm	Aging and cellular and molecular biomarkers of successful		
		responses to therapy in severe pneumonia Alexander Misharin, MD, PhD		
		Northwestern University		
2.45pm	2:55pm	Discussion		
2:55pm	3:10pm	Expression of cleavage resistant Mertk prevents the age-related decline in muscle function after viral pneumonia		
		Connie Runyan		
		Northwestern University		
3:10pm	3:15pm	Discussion		
3:15pm	3:45pm	Break – Refreshments Provided		
3:45pm	4:00pm	Molecular Basis of Metformin Action Colleen Reczek, PhD		
		Northwestern University		
4:00pm	4:05pm	Discussion		
4:05pm	4:35pm	Metabolism of aging and delayed aging by caloric restriction		
		Rozalyn Anderson, PhD University of Wisconsin		
4:35pm	4:45pm	Discussion		
4:45pm		Closing Remarks		
		GR Scott Budinger, MD Pulmonary and Critical Care Medicine, Northwestern University		
5:00pm	6:00pm	Reception – Refreshments Provided		

CONFERENCE ORGANIZERS

This Pulmonary and Critical Care Medicine conference is organized by the investigators of the Program Project Grant (PPG) on Aging lead by GR Scott Budinger in collaboration with Drs. William Balch, Navdeep Chandel, Alexander Misharin, Richard Morimoto, Karen Ridge, Benjamin Singer, and Jacob Sznajder. Funding for this conference by the National Institute of Aging PPG award 1P01AG049665.