### MORNING SESSION

**Program Chair:** Navdeep Chandel, PhD

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker &amp; Details</th>
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</thead>
</table>
| 9:00am - 9:10am | Welcome and Introduction                                                                 | GR Scott Budinger, MD  
Pulmonary and Critical Care Medicine, Northwestern University                                                                                      |
| 9:10am - 9:30am | Introducing the Potoesnak 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                                                                                     |                                                                                                                                                    |
| 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

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

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
CONFERENCE ORGANIZERS

This Pulmonary and Critical Care Medicine conference is organized by the investigators of the Program Program 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.

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