SenNet Annual Meeting Agenda

October 23 and 24, 2023

Graduate Hotel

Minneapolis, MN

Day 1 (Monday, October 23, 2023)
Join Zoom Meeting
https://pitt.zoom.us/j/91546844753

8:00-9:00 am	**Registration/Check-in with Catered Full Breakfast**

Introductions

9:00-9:20 am	**Opening remarks - Richard Hodes and Ananda Roy** National Institutes of Health
9:20-9:30 am	**Consortium Organization & Data Coordinating Center (CODCC)** PIs: Jonathan Silverstein, Ziv Bar-Joseph, Phil Blood
9:30-10:30 am	**Keynote Speaker** **Pura Muñoz Cánoves (Altos Labs, CA) - Rong to introduce**
10:30-10:40 am	**Break**

Updates from TDAs and TMCs (Session I)

10:40-10:55 am	**Buck Institute for Research on Aging (TMC)** Senescent cell mapping, identification and validation for human somatic and reproductive tissues PI: Judy Campisi
10:55-11:10 am	**University of Washington (TDA)** PIXEL-seq-based spatial, multi-omic profiling for senescent cell mapping with single-cell resolution PI: Liangcai Gu
11:10-11:25 am	**University of Minnesota (TMC)** Tissue Mapping Center for Senescent Cells PI: Laura Niedernhofer
11:25-11:40 am	**Stanford University (TDA)** Cellular Senescence Network: New Imaging Tools for Arthritis Imaging PI: Heike Daldrup-Link

11:40-11:55 am   **Sanford Burnham Prebys Medical Discovery Institute (TMC)**
Spatial mapping senescent cells across the mouse
lifespan by multiplex transcriptomics and epigenomics
PI: Peter Adams

11:55 am-1:00 pm   **Catered Lunch**

1:00-1:15 pm   **Selected Abstract Presentations**

Updates from TDAs and TMCs (Session II)
1:15-1:30 pm   **Massachusetts General Hospital (TDA)**
Single-cell proteomic identification of novel markers of senescence
PI: Zhixun Dou

1:30-1:45 pm   **The Jackson Laboratory (TMC)**
The Jackson Laboratory Senescence Tissue Mapping Center
PI: Nadia Rosenthal

1:45-2:00 pm   **UConn Health (TMC)**
The KAPP-Sen Tissue Mapping Center Collaborative
PI: George Kuchel

2:00–2:15 pm   **Johns Hopkins University (TDA)**
Three-dimensional maps of in the human pancreas
PI: Pei-Hsun Wu

2:15-2:30 pm   **Mayo Clinic (TDA)**
Spatially resolved protein and transcriptome mapping of
senescent cells
PI: Marissa Schafer

2:30-2:45 pm   **Break**

Updates from TDAs and TMCs (Session III)
2:45-3:00   **University of Pittsburgh (TMC)**
TriState SenNET (Lung and Heart) Tissue Map and Atlas
Consortium
PI: Toren Finkel

3:00-3:15 pm   **Buck Institute for Research on Aging (TDA)**
Evaluating diverse technologies for detecting and validating
senescent cells in vivo

PI: Simon Melov

3:15-3:30 pm **Duke University-Mount Sinai (TMC)**
Senescent Cell Evaluations in Normal Tissues (SCENT) Mapping
Center
PIs: Patty Lee, Andrew Nixon and Monica Kraft

3:30-3:45 pm **University of Minnesota (TMC)**
Midwest Murine Tissue Mapping Center
PI: David Bernlohr

3:45-4:00 pm **Columbia University Irving Medical Center (TMC)**
A Multi-scale Atlas of Senescence in Diverse Tissue Types
PI: Hemali Phatnani

4:00-6:00 pm **Poster and cocktail reception with light Hors D'oeuvre**

Evening Networking – Local Restaurants (Junior Investigators meet with PIs or Faculty for dinner)

Day 2 (Tuesday, October 24, 2023)
Join Zoom Meeting
https://pitt.zoom.us/j/98487545357

8:00-9:00 am **Check-in/Catered Full Breakfast**

9:00-9:15 am **Poster/Abstract Awards and recognition of the CUSP students**

9:15-10:15 am **Keynote Speaker**
Corina Amor Vegas (Cold Springs Harbor Laboratory, NY) -
Marissa to introduce

10:15-10:45 am **SenNet consortium benchmarking projects updates**
Mouse benchmarking project discussion

10:45-11:00 am **Break**

Updates from TDAs and TMCs (Session IV)
11:00-11:15 pm **Brown University (TDA)**
Spatial omics technologies to map the senescent cell
Microenvironment
PI: Nicola Neretti

11:15-11:30 am **Massachusetts Institute of Technology (TDA)**

Single-cell label-free identification of senescence by Raman
microscopy and spatial genomics
PI: Peter So

11:30-11:45 am **Columbia University (TDA)**
Senescence-on-a-chip: Building a microphysiological 3D skin
model
PI: Angela Christiano

11:45-12:00 pm **Johns Hopkins University (TMC)**
JHU-Mayo-NIA Murine Senescence Mapping Program
PI: Jennifer Elisseeff

12:00-1:15 pm **Catered Lunch**

Updates from TDAs and TMCs (Session V)
1:15-1:30 pm **Yale University (TMC)**
Cellular Senescence in Lymphoid Organs
PI: Rong Fan

1:30-1:45 pm **Pacific Northwest National Laboratory (TDA)**
Spatially resolved proteome mapping of senescent cells and their
tissue microenvironment at single-cell resolution
PI: Ljiljana Pasa-Tolic

1:45-2:00 pm **Washington University in St. Louis (TMC)**
Washington University Senescence Tissue Mapping Center
PI: Li Ding

2:00-2:15 pm **University of Michigan (TDA)**
Seq-Scope: Microscopic Examination of Spatial Single Cell
Transcriptome in Cell and Tissue Senescence
PI: Jun Hee Lee

2:15-2:30 pm **Yale University (TMC)**
Immune Cell Senescence Derived Inflammation
PI: Deep Dixit

2:30-2:45 pm **Mayo Clinic (TDA)**
Development of machine learning software to quantitatively map
telomere induced senescence in tissue sections during aging
PI: Joao Passos

2:45-3:00 pm   **Break**

3:00-4:00 pm   **Steering Committee Meeting (open to attendees)**

4:00-5:00 pm   **Junior Investigator Session**
                      30 minutes NIH Funding Opportunities - Christy Carter
                      30 minutes - Discussion

5:00 pm   **Adjourn (meeting takeaways by session chairs)**