SenNet Annual Meeting Agenda

October 23 and 24, 2023

Graduate Hotel

Minneapolis, MN

Day 1 (Monday, October 23, 2023)

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

Introductions

9:00-9:15 am **Opening remarks**
NIH Common Fund

9:15-9:30 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)

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

Day 2 (Tuesday, October 24, 2023)

| 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)** |

| 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	**Junior Investigator Session**
4:00-5:00 pm	**Steering Committee Meeting (open to attendees)**
5:00 pm	**Adjourn**