

Noriaki Ono, DDS, PhD Associate Professor UTHealth Houston noriaki.ono@uth.tmc.edu

Research Interests

Spatial biology – Bone biology

- Cell lineage & skeletal stem cells
- Bone development & bone cancers

Strengths or Unique Resources

Mouse genetics – in vivo lineage-tracing approaches Frozen sections, Microscopy & Imaging

Type of collaborator you seek

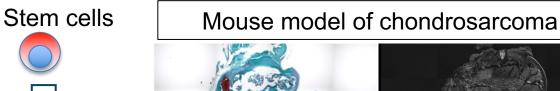
Spatial transcriptomics/genomics
Access to the platform, Computational collaborators
Publication List (link & gr code)

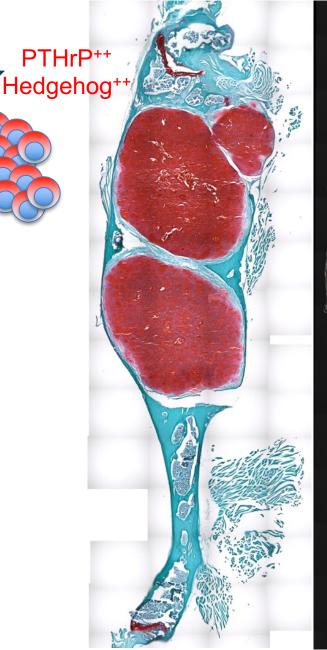
JCI Insight (2024), Nat Commun (2023, 2022, 2020) Nature (2018), etc.

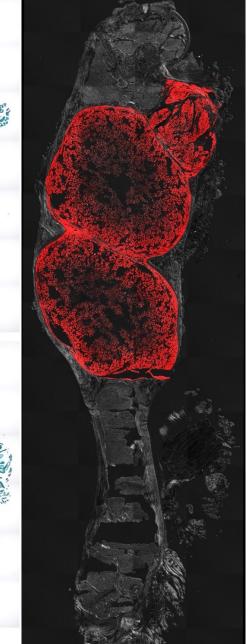
Lab or Faculty website (link & qr code)

UTHealth Ono & Ono Laboratory

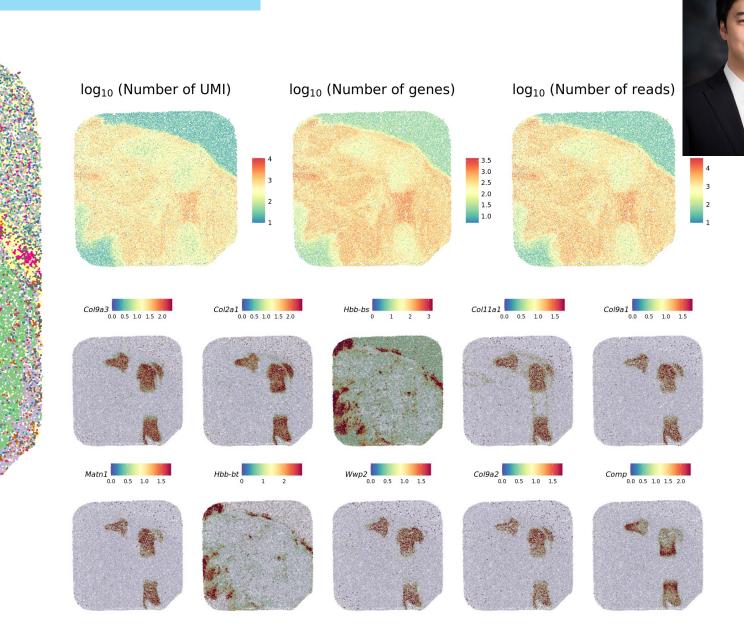
LinkedIn (link & qr code) linkedin.com/in/noriaki-ono-78bb0b18







Curio Seeker v1.1 E16.5 Control: PTHrPmCherry/+



→ To be integrated with droplet-based scRNA-seq (PIPseq)

Shion Orikasa

Resources to offer:

Set-up and know-how for...

- Mouse genetics & In vivo lineage-tracing
 54 mouse lines for studying embryonic, fetal, growing & adult bones
- Frozen sectioning
 Leica CM1860 cryostat (2X)
- High-quality imaging
 Zeiss Axio Observer Z1 automated microscope
 (with ApoTome)

Resources we are looking for:

- Single-cell spatial transcriptomics Access to hardware
 Discovery: 10X Visium HD Visium CytAssist
 Confirmation: 10X Xenium etc.
- Computational analysis of single-cell spatial datasets:
 "Cell-cell interaction in somatic mosaicism"
 - Interactions between tumor cells and their surrounding non-mutant cells
 - Oncogene-induced alterations of intercellular signaling

