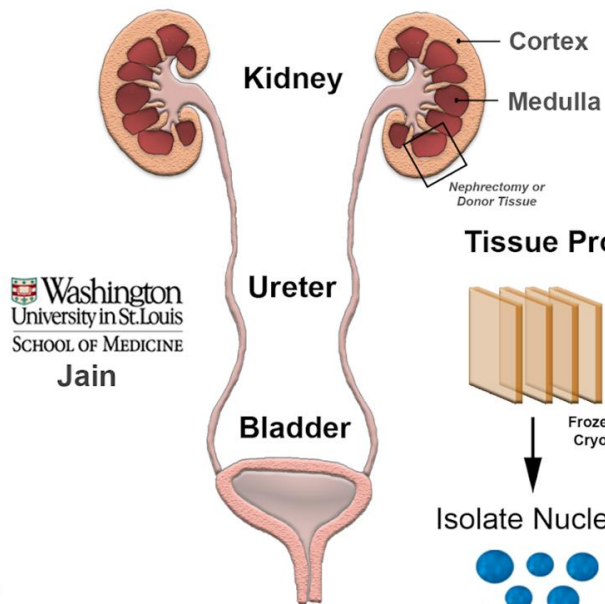


HuBMAP U54 UCSD Update

KULMAP Team

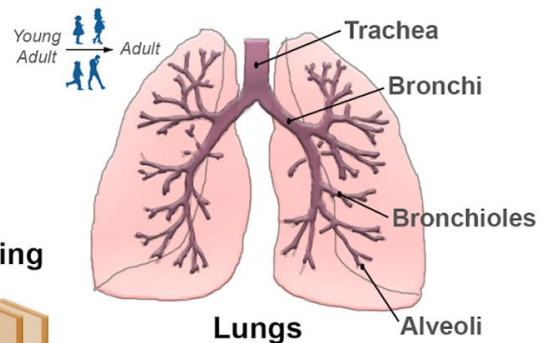
Sept. 23, 2019

Urinary System



Washington University in St. Louis
SCHOOL OF MEDICINE
Jain

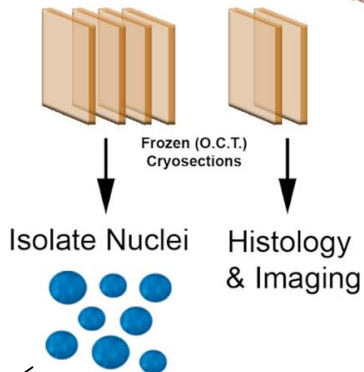
Respiratory System



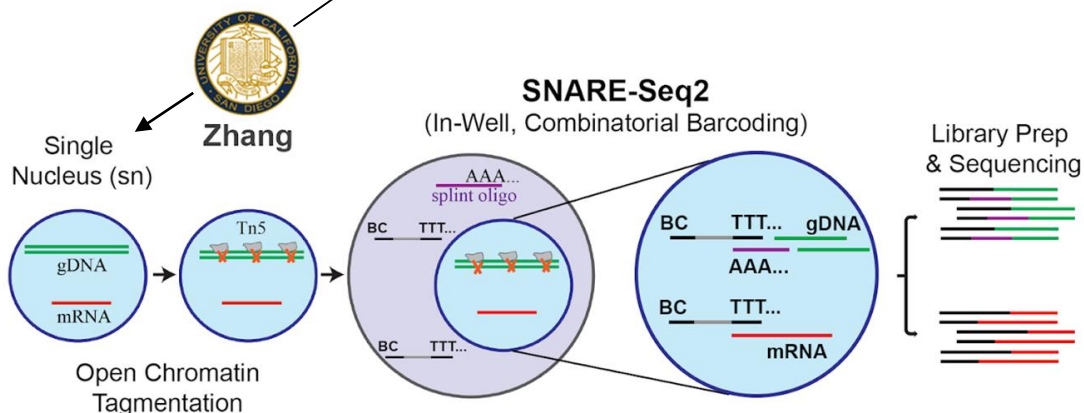
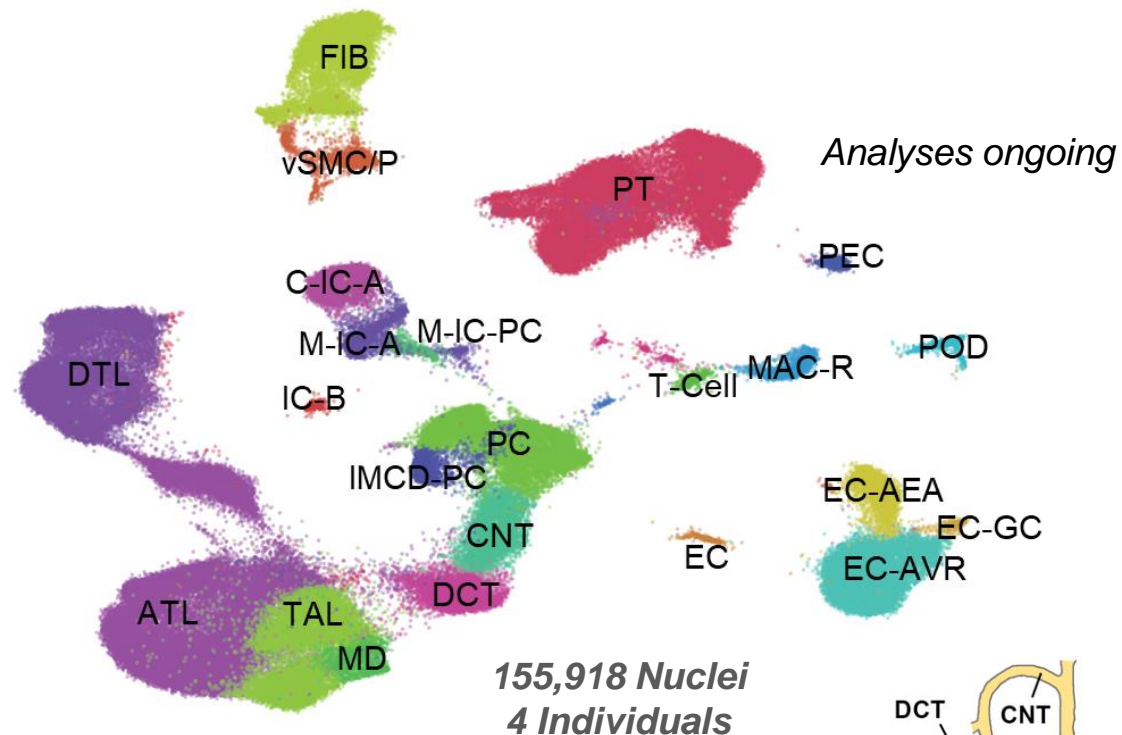
UNIVERSITY of ROCHESTER
MEDICAL CENTER
Pryhuber

THE UNIVERSITY of NORTH CAROLINA
at CHAPEL HILL
Hagood

Tissue Processing



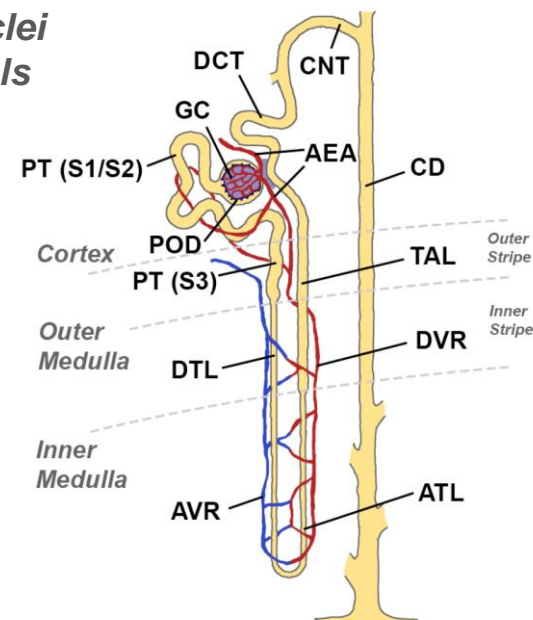
Human Kidney Cortex/Medulla Cell Types



Zhang

- Cortex:**
- ~31K PT3414♂ SPLiT-Seq (RNA Only)
 - ~1K PT 3412♀ SNARE-seq2 (RNA)
 - ~10K PT3505♂ SNARE-seq2 (RNA)

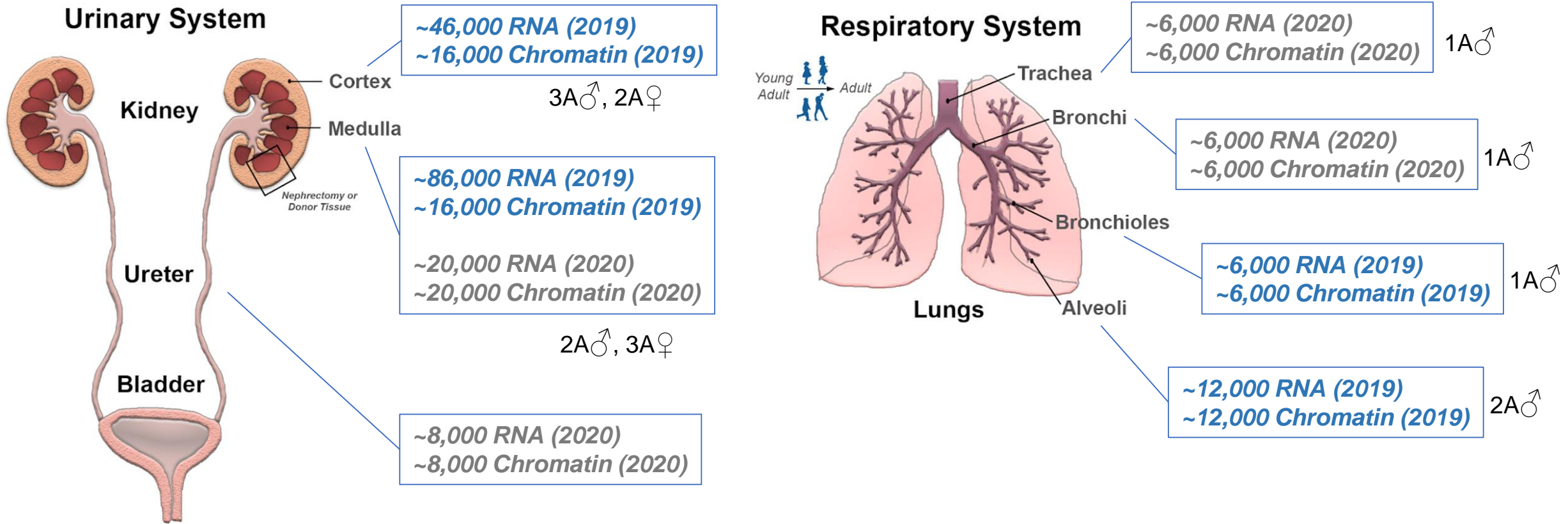
- Medulla:**
- ~72K PT3414♂ SPLiT-seq (RNA Only)
 - ~4K PT3412♀ SNARE-seq2 (RNA)
 - ~12K PT3494♀ SNARE-seq2 (RNA)
 - ~25K PT3505♂ SNARE-seq2 (RNA)



Next Year's Deliverable in 1 slide

Expected SNARE-Seq2 Deliverables*

**Actual numbers dependent on QC filtering and analysis outcomes*



Collaborations in 1 slide

- Vanderbilt TMC (Jeff Spraggins): Autofluorescence vs DART-FISH integration
 - Generated a list of must and recommended fields and agreed on pathology parameters to harmonize between sites.
 - Processed and preserved tissues in solution with VU protocol, will ship tissues soon upon execution of the MTA.
 - Identified auto-fluorescent imaging parameters compatible with DART-FISH
- HMS TTD (Yin Peng): SABER-FISH vs DART-FISH comparison
 - Shipped tissues to HMS
 - Coordinated target genes and probe design

What should HuBMAP Do ?

1. Annotation & Validation: it takes way more efforts than we think. Start making HuBMAP specific marker lists for HuBMAP organ systems to facilitate annotations and cross-integration.
2. Define criteria for shareable data, including the minimal standard for annotation/validation.
3. Sample consent mechanism