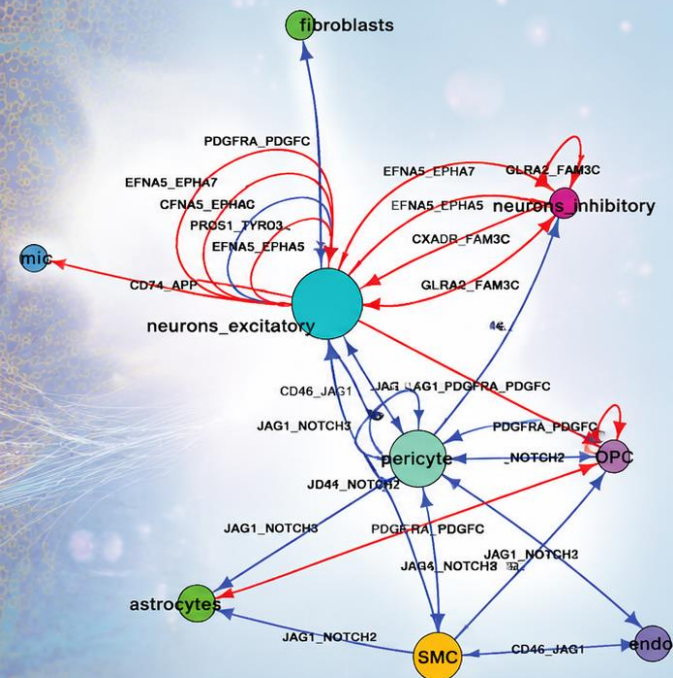
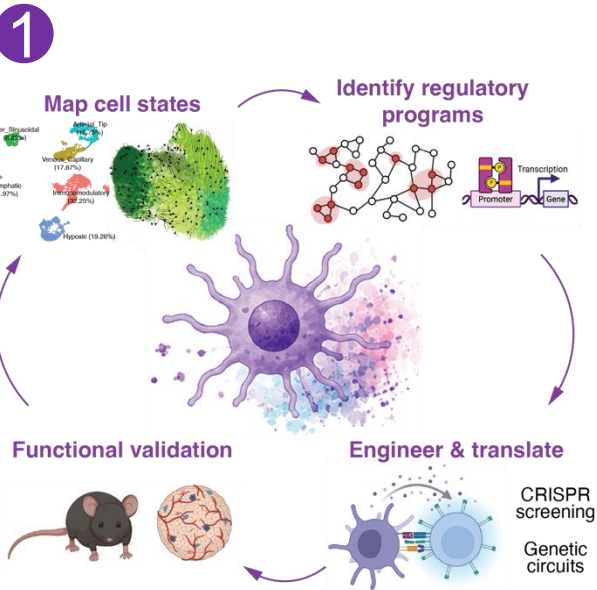


Decoding cells.
Mapping tissues.
Modeling biology.

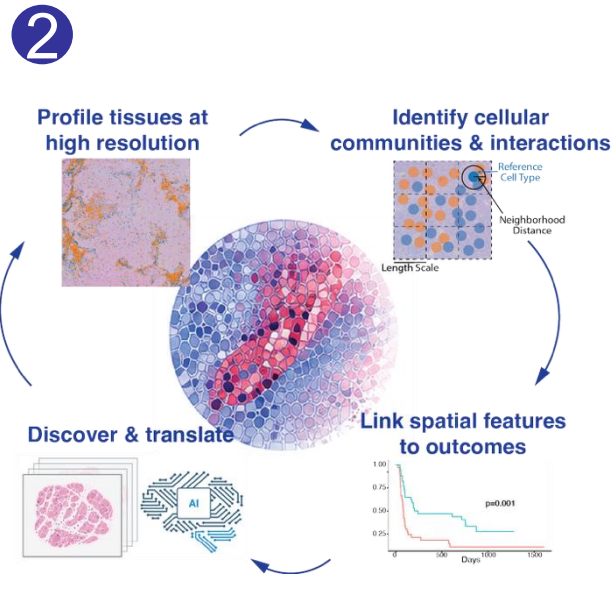
Integrating single-cell and spatial multi-omics, computational modeling, and functional genomics to understand and engineer human disease.

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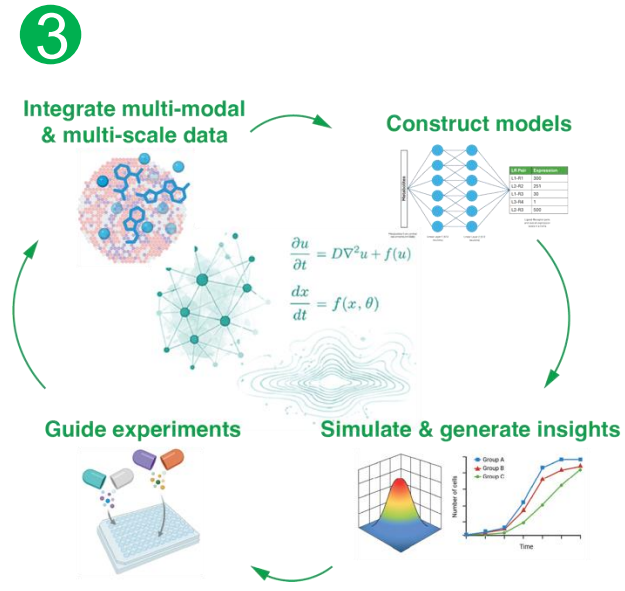




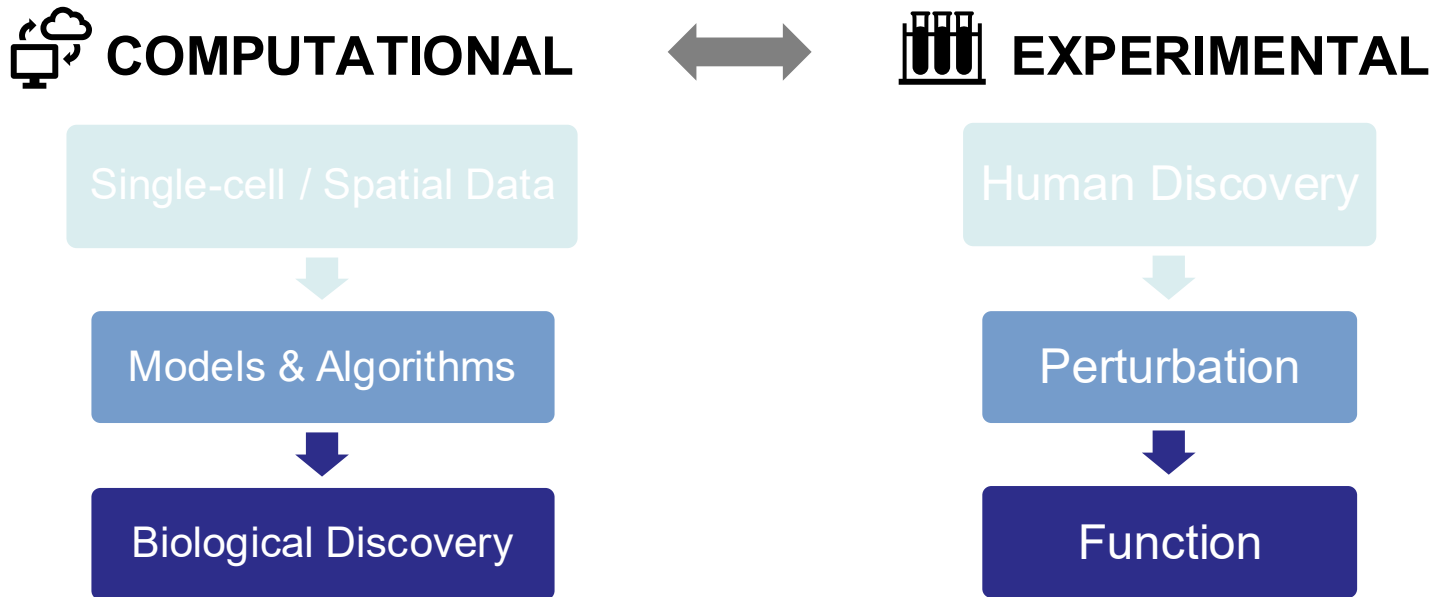
Cell states



Tissue ecosystems



Predictive models



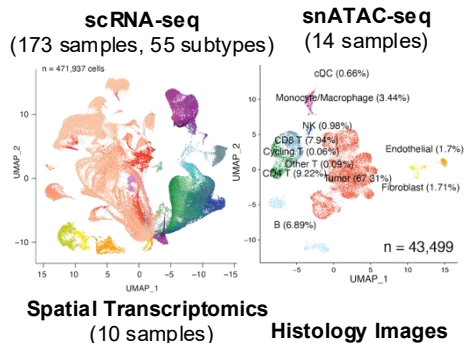
Example projects:

- Discover disease-associated cell states
- Decode regulatory networks
- Develop spatial biology methods

Example projects:

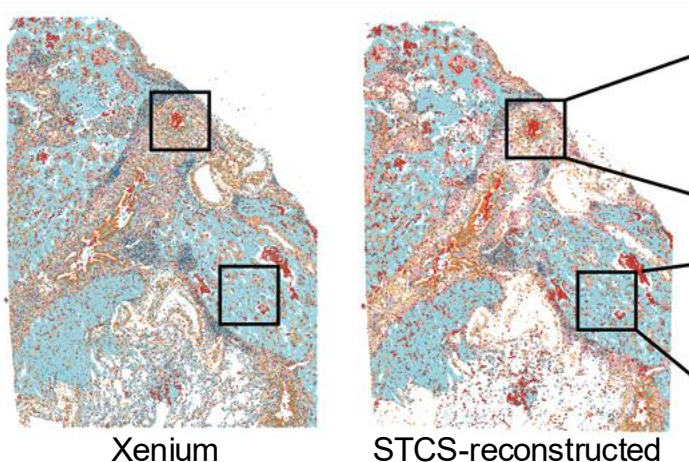
- Engineer dendritic-cell states
- CRISPR perturbation
- Flow cytometry & functional assays

Cancer Immunotherapy



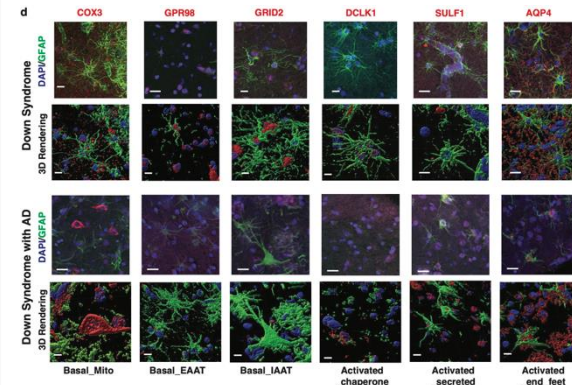
Why do some tumors respond to immunotherapy?

Spatial Biology



How does tissue organization shape cellular behavior?

Neurodegeneration

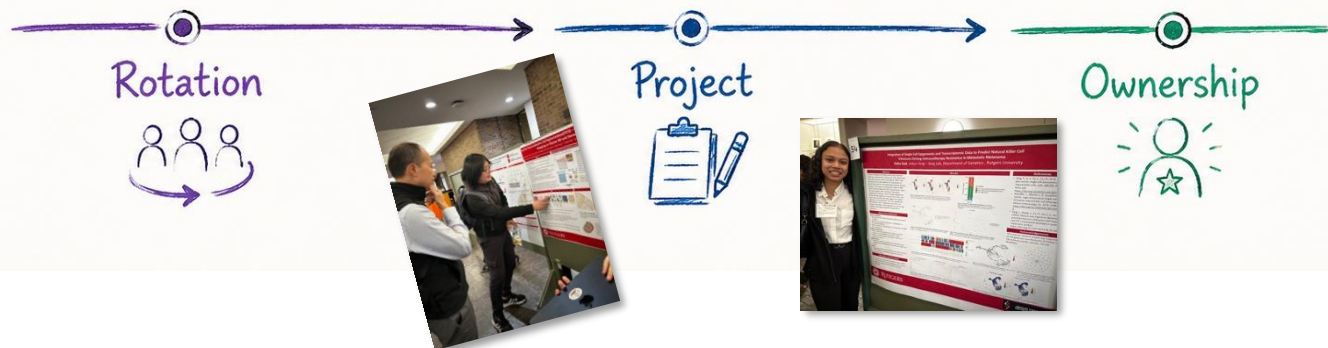
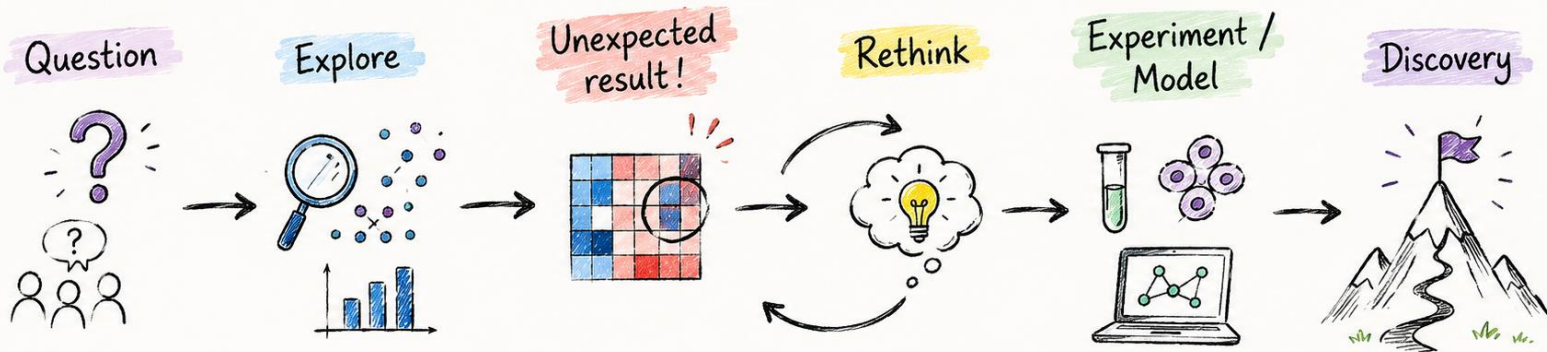


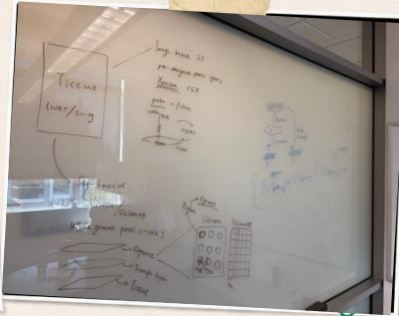
Why are particular cellular states vulnerable to disease?

Different diseases. Shared systems-level questions.



RUTGERS How a project grows in our lab





Ask questions
Challenge ideas
Make an impact

Curious. Collaborative.

Rigorous. Supportive.

Different backgrounds. Shared science. ♥

☆ We learn from each other every day.



Curious? Come talk with us.

Experimental • Computational • Somewhere in between

<https://www.yangcompbio.org/>



Integrating single-cell and spatial multi-omics, computational modeling, and functional genomics to understand and engineer human disease.

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