

Molecular Cartography & Human Neuroendocrine Physiology

Research Topics:

• Human Metabolic and Endocrine Diseases

We incorporate cell-, rodent-, and human-based model systems to understand the etiology of metabolic and endocrine diseases including Type 1 & Type 2 diabetes, Prader Willi Syndrome, and disorders of pregnancy.

• Deorphanization of Orphan GPCRs

We utilize our patented deorphanization process to match orphan G protein coupled receptors (GPCR) with their cognate ligands. Likewise, we assess therapeutic potential of orphan GPCRs for human diseases, particularly metabolic and endocrine diseases.

Techniques:

Spatial molecular imaging, digital spatial profiling, whole animal models of human diseases, transgenic rat models, super resolution microscopy, human subjects research and human tissue-based models

Contact Information:

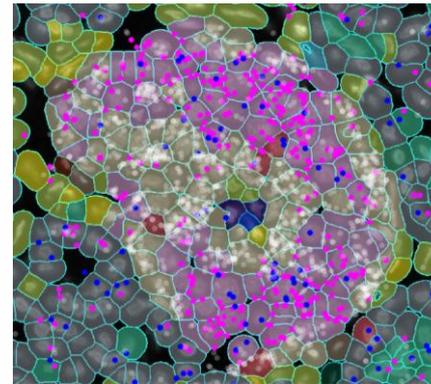
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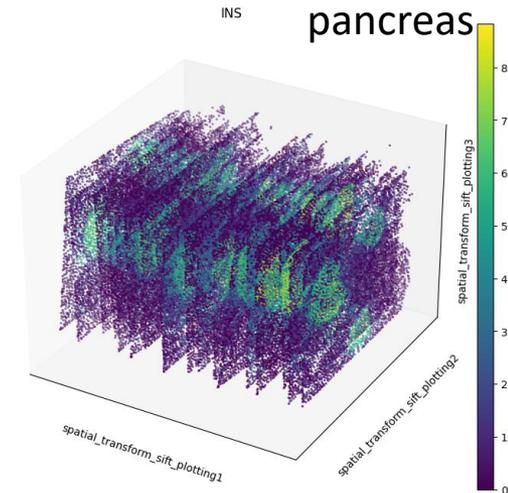
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Spatial molecular imaging of human Islets of Langerhans

Three-dimensional spatial omics of human pancreas



Keywords:

Human physiology, metabolism, endocrinology, spatial omics, animal models of human metabolic disease, human subjects research

Publications and Recognitions:

PubMed Link:

<https://pubmed.ncbi.nlm.nih.gov/?term=yosten%5Bauth%5D&sort=date>

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