

THE INDIANA UNIVERSITY O'BRIEN CENTER
PRESENTS

FROM BASIC INFORMATICS TO MACHINE LEARNING:

A hands-on, interactive tutorial to harness the power of kidney
single cell and spatial transcriptomics data

Please [CLICK HERE](#) to register and join us

MONDAY- DEC 2, 2024

&

TUESDAY- DEC 3, 2024

FROM 11:00AM- 3:00PM EST

DAY 1

DAY 2

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- 1) Intro to single-cell multi-omics and spatial transcriptomics
 - 2) Intro to biological analysis of the kidney **(HANDS ON)**
 - 3) Localizing cells within spatial niches **(HANDS ON)**

- 1) Use ChatGPT and machine learning in single-cell studies
- 2) scRNA-seq model training using svGNN 3.0 and ChatGPT **(HANDS ON)**
- 3) Single-cell multiome analysis using DeepMAPS **(HANDS ON)**
- 4) Spatial variable gene expression **(HANDS ON)**

R01 DK138504 & U54 DZK137328



Speakers include:

Juexin Wang, PhD (Indiana Univ)	Mingyao Li (Univ of Pennsylvania)
Qin Ma, PhD (The Ohio State Univ)	Dong Xu (Univ of Missouri)
Ricardo Melo Ferreira, PhD (Indiana Univ)	Michael Eadon, MD (Indiana Univ)