

Advancing Cancer Genomic Medicine in the AI Era

Organized by UTHealth Office of Cancer Genomic Medicine, Cancer Genomics Center & BIG-TCR Training Program

DATE

Thursday, April 23, 2026

TIME

12:00 PM – 5:00 PM

FORMAT

In-Person Workshop

PROGRAM SCHEDULE

12:00–1:00 PM	Lunch 60 min	
1:00–1:10 PM	Introduction 10 min	Jiajie Zhang · Dean, MSBMI, UTHealth Houston
1:10–1:15 PM	Welcome 5 min	Zhongming Zhao · VP of Cancer Genomic Medicine · Director, UTHealth Cancer Genomics Core · Director, BIG-TCR Training Program
1:15–1:45 PM	Keynote 1 30 min	Jun Wan · Indiana University School of Medicine <i>Interpretable, Reproducible, and Scalable AI for Cancer Genomics: Lessons from DiCE</i>
1:45–2:00 PM	CGC Overview 15 min	Xian Chen · MSBMI, UTHealth Houston <i>Introduction to UTHealth Cancer Genomics Center</i>
2:00–2:20 PM	Translational Speaker 20 min	Michael King · Rice University <i>Advanced Models of Tumor Growth and Metastasis: From Superhydrophobic NAMs to Machine Learning</i>
2:20–2:35 PM	Computational Speaker 15 min	Xiaosheng Wang · MSBMI, UTHealth Houston <i>Quantitative Profiling of Intratumor Immune Heterogeneity Identifies Loss of Immune Diversity as a Hallmark of Cancer Progression</i>
2:35–2:50 PM	BIG-TCR Postdoc 15 min	Arnav Solanki · MSBMI, UTHealth Houston <i>AI-Driven Ligand Discovery and Antibody Evolution for a G-Protein Coupled Receptor</i>
2:50–3:05 PM	BIG-TCR Predoc Alumni 15 min	Wendao Liu · MSBMI, UTHealth Houston <i>FADVI: Disentangled Representation Learning for Robust Integration of Single-cell and Spatial Omics Data</i>
3:05–3:25 PM	Break / Coffee 20 min	
3:25–3:55 PM	Keynote 2 30 min	Yidong Chen · UTHSC San Antonio <i>TBA</i>
3:55–4:05 PM	OCGM Overview 10 min	Zhongming Zhao & Jinling Wang · MSBMI, UTHealth Houston <i>Introduction to UTHealth Office of Cancer Genomic Medicine</i>
4:05–4:20 PM	OCGM Speaker 15 min	Yejin Kim · MSBMI, UTHealth Houston <i>AI-based de novo Design of mAbs for "hard-to-drug" Targets</i>
4:20–5:00 PM	Roundtable Discussion 40 min	