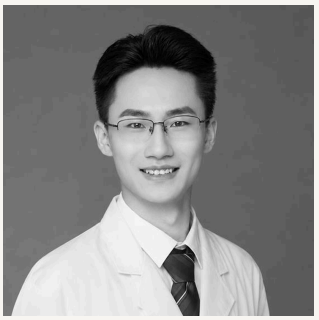
HEIDELBERG UNIVERSITY HOSPITAL

HEIDELBERG FACULTY OF MEDICINE

INSTITUTE FOR MEDICAL ARTIFICIAL INTELLIGENCE

IMAI LECTURE SERIES

The 3rd IMAI Lecture



Bridging Histopathology and Spatial Omics: From Tumor Heterogeneity to Precision Oncology

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Histopathology and spatial omics provide complementary perspectives on tumor heterogeneity. In this talk, Zhong will introduce the Tumor Spatial Heterogeneity Atlas (TSHA), which enables systematic quantification of tissue architecture and discovery of interpretable spatial biomarkers, further inspiring targeted spatial proteomic investigations. Building upon these insights, Zhong will present HistoSPHERE, a framework that directly bridges histological heterogeneity and spatial proteomic ecosystems, establishing a closed-loop approach to biomarker discovery, biological validation, and clinical translation. Finally, Zhong will highlight selected real-world oncology studies from the National Cancer Center of China, demonstrating the potential of integrating computational pathology with clinical data to advance precision oncology.

WHEN

Thursday
19 November 2026
09:00 to 10:00

WHERE

Seminarraum 1
Ground floor (CHIR 00.013)
Chirurgische Klinik
Im Neuenheimer Feld 420

HOST

Prof. Dr. Jakob N. Kather
IMAI, Heidelberg

No registration required. Seating is limited and admission is on a first come, first served basis.

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