

**Cancer Imaging Program Grants – CIP 2015**

“An integrative approach to histological sections – accelerating the integration of multi-modality imaging into clinical practice.”

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This novel proposal will develop a powerful new research tool that addresses a major research gap – the current inability to reliably register and integrate multi-modality images with histological sections. The ability to automatically align graded histology regions of interest with available imaging metrics across three orders of magnitude allows us to localize regions of high-grade cancerous tissue, a task essential for targeted therapies. The development of this tool will enable future research that fundamentally enhances our understanding of the imaging signatures of cancer. It will have broad potential applications for tumor diagnosis, characterization, prognostication, and treatment monitoring.