

AbstractID: 11892 Title: Biomarker Discovery and Molecular Imaging of Pancreatic Ductal Adenocarcinoma

Imaging sciences have grown exponentially during the past three decades, and many techniques have become indispensable in clinical use. Advances in imaging technologies and combinatorial chemistry techniques for the development of molecularly targeted imaging agents are now extending the application of imaging further into diagnostic capabilities, drug discovery and development with the potential to considerably accelerate the process.

Pancreatic ductal adenocarcinoma (PDAC) is an intractable clinical problem, typically presenting with metastasis at the time of diagnosis and exhibiting profound resistance to existing therapies. The development of novel molecular markers and imaging probes for incipient PDAC would enable earlier detection and guide the development of interventional therapies. Therefore, the overall goal of this project is to develop novel molecular imaging agents and identify biomarkers for the early detection and detection of PDAC metastasis.