



Clinical applications of glycan mass spectrometry imaging

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Dr. Ippolito is an Assistant Professor of Radiology at Washington University in Saint Louis School of Medicine. He runs a NIH and DoD funded laboratory focused on cancer metabolism. His lab identifies metabolic biomarkers of poor outcomes in cancer patients using mass spectrometry-based methods, develops imaging tools to detect those pathways in vivo, and re-purposes existing drugs to target those pathways to improve survival. Relevant to mass spectrometry imaging, he is collaborating with Dr. Richard Drake to translate the discovery of a novel panel of glycan biomarkers that are enriched in lethal prostate cancer into the development of magnetic resonance imaging (MRI) and positron emission tomography (PET) imaging-based methods for noninvasive detection of those glycans in cancer patients.