

What Imaging can do:

How Mass Spec Imaging is Putting Molecular Data into Tissue Context for Quicker, Better and more Reliable Pharmaceutical Research and Development.

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ABSTRACT 25 years after its introduction, Mass Spectrometry Imaging (MSI) has become a widely used technology in the pharmaceutical research & development to understand the complexity of biological events happening within tissue. Direct molecular imaging is playing a pivotal role in modern drug development by providing PK, PD, safety, and target engagement information, crucial for decision making. Most pharmaceutical companies and many CROs have integrated the MSI toolbox to their workflows in combination with digital pathology and highly multiplexing immunohistochemistry. This webinar will describe how MSI is supporting AstraZeneca portfolio through different example of applications dealing with cancer research, respiratory diseases, and the characterization of drug delivery system as well as its integration with in-vivo imaging modalities.

BIO Gregory Hamm (PhD) is a Director at AstraZeneca (AZ) from the Imaging & Data Analytics team in Clinical & Pharmaceutical Safety Sciences (CPSS). He holds a PhD in physics and chemistry from the Paul Verlaine University of Metz, France in 2010. As R&D manager in the MS imaging department of ImaBiotech from 2010 to 2016, he developed a new methodology for quantification by MSI (patented and published extensively) and coordinated international research program for the company. Since 2016, he's supporting AstraZeneca portfolio using a range of advanced imaging technology including MSI, Imaging Mass Cytometry (IMC) and digital pathology. He has extensive experience in supporting projects for safety and efficacy studies and is therapy area lead for Respiratory & Immunology. He's the author of over 40 peer reviewed papers in the field these last 11 years and as chairman of the ESMI MSI study group he strives to promote the multimodality MSI to wider imaging community.