

Precision Imaging Agents and Theranostics: Concept to Clinic

*Presented by
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and Radiological Science*

March 2 - 4, 2020

Tilghman Auditorium
Johns Hopkins School of Medicine
Baltimore, Maryland

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Activity Director

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Description

Molecular targeting is the foundation of current therapies for a variety of diseases including cancer. Imaging is central to the assessment of those therapies, and the clinical use of imaging technologies for their assessment, specifically positron emission tomography (PET), single photon computed tomography (SPECT) and magnetic resonance imaging (MRI), continues to grow. The anatomical and functional information provided by those imaging technologies enables us to diagnose, stage, and monitor disease response to therapy. There also has been tremendous growth in (radio) synthetic methods, the development of new imaging agents and theranostics over the last few years, however, the number of agents evaluated in humans and receive FDA approval still remains a few.

Often, validation and clinical translation aspects of an imaging agent or a theranostic require a multi-disciplinary expertise. Despite the need for interdisciplinary collaboration, molecular imaging researchers often work in silos of chemistry, physics, and molecular biology pertaining to development and validation of imaging agents and theranostics.

Our goal in providing this course is to dismantle the silos in molecular imaging and theranostic agent development and clinical translation. We aim to provide a broad understanding of all aspects of an imaging or theranostic agent development with a specific emphasis on team science and translation.

Target Audience

This activity is intended for radiologists, nuclear radiologists, researchers and radiologic technologists.

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