

# Targeted Molecular Imaging In Oncology

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This volume is unique in reporting on strategies for the application of molecular targeted imaging agents such as antibodies, peptides, receptors and contrast agents in the biologic grading of tumors, differential diagnosis of tumors, prediction of therapeutic response and monitoring tumor response to treatment.

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Molecular targets for oncological research in (1) cell apoptosis, (2) gene and nucleic acid-based approach, (3) angiogenesis (4) tumor hypoxia, and (5) metabolic imaging are discussed. Numerous imaging ligands in these categories have been developed and evaluated in animals and humans.

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The goal of the Molecular Imaging Branch (MIB) is to develop

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targeted imaging methods that accelerate the development of cancer therapies. The MIB is focused on the development and translation of in vivo molecular imaging agents for early detection, monitoring and therapy. Given the high risks and high costs of conducting research in this field, the MIB is well positioned to address the challenges that the field of molecular imaging faces.

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This demonstrates the power of PET molecular imaging to potentially personalize a patient's therapeutic regimen based on targeted biomarker expression. PD-1/PD-L1 small molecules While there are many advantages to radiolabeling antibodies for PET/CT imaging, there are also several limitations.

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choline and agents that target prostate-specific membrane antigen (PSMA). PSMA is a transmembrane protein that's overexpressed in prostate cancer.

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