

CALL FOR PAPERS

The rising application of molecular imaging with technologies such as positron emission tomography (PET), single photon emission computed tomography (SPECT), magnetic resonance imaging (MRI), and optical and ultrasound imaging has permitted noninvasive in vivo monitoring of different biological and pharmacological processes. The most promising techniques are transporter- and receptor-based imaging, in which specific ligands allow the diagnosis of diseases, as well as the prediction and monitoring of patient response to therapies. Transporters (e.g., L-type amino acid, ionic, dopamine, vesicular acetylcholine, and 5-HT) and receptors (e.g., estrogen, androgen, progesterone, opioid, dopamine, cannabinoid, somatostatin, sigma, acetylcholine, gastrin releasing peptide, G-protein coupled, luteinizing hormone-releasing hormone, insulin-like growth factor, platelet-derived growth factor, and epidermal growth factor) have been linked to oncologic, neurologic, cardiovascular, respiratory, endocrine, infectious, and inflammatory disorders. The expansion of translational research has accelerated the transfer of findings from basic and preclinical studies to the clinical field, leading to the ever-increasing prospect of personalized medicine.

Noninvasive molecular imaging has recently been integrated into interventional procedures. Interventional molecular imaging, a hybrid approach, has been estimated and is aiming to provide accurate detection of targets and precise guide of therapeutic drugs/imaging tracers delivery and effectiveness monitoring drug efficacy. Accurate preoperative identification, surgical planning, and intraoperative visualization can be integrated using hybrid imaging agents that contain both a radio and fluorescent label.

This special issue will focus on the value of analyzing receptor density and transporter pathways using molecular imaging and also the future impact of interventional molecular imaging including any promising expansion of molecular imaging.

Researchers are invited to submit original and review manuscripts on the development and application of transporter- or receptor-based imaging.

Potential topics include but are not limited to the following:

- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in oncologic disorders
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in neurologic disorders
- ▶ Transporter or receptor-based imaging or interventional molecular imaging in psychiatric disorders
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in cardiovascular disorders
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in respiratory disorders
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in endocrine disorders
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in infectious disorders
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in inflammatory disorders
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in aging
- ▶ Transporter- or receptor-based imaging or interventional molecular imaging in drug abuse

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/cmimi/ettr/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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