



Special Issue on
**Emerging Imaging Technologies for Transporter or
Receptor Pathway-Activated Systems in Disease
Management**

CALL FOR PAPERS

The growing use of molecular imaging has been done up to now with a hybrid modality known as PET/SPECT/CT and PET/SPECT/MRI which is attempting to help control and monitor drug dosage for increased safety and effectiveness. Molecular imaging drugs have been focused on the identification of target specific markers and the application of these markers for the bridging of diagnosis, for monitoring patient response to drug dosages, and for the prediction of the selection of patients for optimal response. More importantly, the molecular imaging drug has the ability to assess, noninvasively, treatment endpoints, which relied almost exclusively on biopsies and histopathological assays. Receptor and transporter-based drugs are related to the association and dissociation rates of drug-receptor and transporter complex. Many receptors (ER, AR, PR, cannabinoid, SSTR, GPCR, LHRH, IGFR, PDGFR, and EGFR) and transporters (LAT, ionic, DA, and 5-HT) are associated with cancer, cardiovascular disease, neurological disorders, and autoimmune disease. This special issue addresses the importance of mapping receptor density and transporter pathways in disease indications by imaging technologies. It will become the scientific tools for the choice of sensitive and specific personalized medicine in disease management. It would also extend our understanding of designing better therapeutics to manage diseases.

The special issue will be interested in translational research scientists and support staff, such as clinicians, molecular biologists, chemists, imaging scientists, pharmaceutical developers, physicists, fellows, and staff. Both academic and clinical scientists are invited to submit the manuscripts.

Potential topics include, but are not limited to:

- ▶ Imaging technologies in transporter or receptor-mediated cancer management
- ▶ Imaging technologies in transporter or receptor-mediated neuronal disorder management
- ▶ Imaging technologies in transporter or receptor-mediated cardiovascular disease management
- ▶ Imaging technologies in transporter or receptor-mediated autoimmune disease management
- ▶ Imaging technologies in transporter or receptor-mediated orphan disease management
- ▶ Imaging technologies in transporter or receptor-mediated drug discovery, development, and delivery

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/oncology/eitt/>.

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