



# Molecular Imaging: Radiopharmaceuticals for PET and SPECT

*By Shankar Vallabhajosula*

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Radioisotope-based molecular imaging probes provide unprecedented insight into biochemistry and function involved in both normal and disease states of living systems, with unbiased in vivo measurement of regional radiotracer activities offering very high specificity and sensitivity. No other molecular imaging technology including functional magnetic resonance imaging (fMRI) can provide such high sensitivity and specificity at a tracer level. The applications of this technology can be very broad ranging from drug development, pharmacokinetics, clinical investigations, and finally to routine diagnostics in radiology. The design and the development of radiopharmaceuticals for molecular imaging studies using PET/MicroPET or SPECT/MicroSPECT are a unique challenge. This book is intended for a broad audience and written with the main purpose of educating the reader on various aspects including potential clinical utility, limitations of drug development, and regulatory compliance and approvals.

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## **Editorial Review**

Review

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“Molecular Imaging: Radiopharmaceuticals for PET and SPECT is a well-written compendium of chapters that cover a wide range of topics regarding the use of radiopharmaceuticals in SPECT and PET. ... It is intended for a broad audience that would include practicing physicians, residents, fellows, nuclear pharmacists, and nuclear medicine technologists. ... a valuable and interesting addition to the library of anyone who is studying or has an interest in the current SPECT and PET radiopharmaceuticals used in molecular imaging.” (Jeff Clanton and Martin P. Sandler, The Journal of Nuclear Medicine, Vol. 51 (4), April, 2010)

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