



Handbook of Small Animal Imaging: Preclinical Imaging, Therapy, and Applications (Imaging in Medical Diagnosis and Therapy)

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The use of small animal models in basic and preclinical sciences constitutes an integral part of testing new pharmaceutical agents prior to their application in clinical practice. New imaging and therapeutic approaches need to be tested and validated first in animals before application to humans.

Handbook of Small Animal Imaging: Preclinical Imaging, Therapy, and Applications collects the latest information about various imaging and therapeutic technologies used in preclinical research into a single source. Useful to established researchers as well as newcomers to the field, this handbook shows readers how to exploit and integrate these imaging and treatment modalities and techniques into their own research.

The book first presents introductory material on small animal imaging, therapy, and research ethics. It next covers ionizing radiation and nonionizing radiation methods in small animal imaging, hybrid imaging, and imaging agents. The book then addresses therapeutic research platforms and image quantification, explaining how to ensure accurate measurements of high-quality data. It concludes with an overview of many small animal imaging and therapy applications that demonstrate the strength of the techniques in biomedical fields.

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Editorial Review

Review

"A great overview of current small animal imaging modalities describing their principles of operation, equipment components, and most recent applications with extremely helpful illustrations. An essential book for every biologist, chemist, and physicist involved in small animal research."

?Magdalena Bazalova-Carter, PhD, Department of Physics and Astronomy, University of Victoria

"... a superb, comprehensive, and very accurate depiction of the state of the art in small animal imaging technologies and applications. This is an authoritative book and invaluable source of information for all biomedical sciences and technologies students, as well as for educators, professionals, and researchers in this multidisciplinary field."

?Professor George Kontaxakis, Universidad Politécnica de Madrid

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