



# Chapter 001, Neuroimaging Modalities:Description, Comparisons, Strengths, and Weaknesses

*Robert McArthur*

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NOTE: This is a single chapter excerpted from the book *Translational Neuroimaging*, made available for individual purchase. Additional chapters, as well as the entire book, may be purchased separately.

*Translational Neuroimaging: Tools for CNS Drug Discovery, Development and Treatment* combines the experience of academic, clinical and industrial neuroimagers in a unique collaborative approach to provide an integrated perspective of the use of small animal and human brain imaging in developing and validating translational models and biomarkers for the study and treatment of neuropsychiatric disorders. *Translational Neuroimaging: Tools for CNS Drug Discovery, Development and Treatment* examines the translational role of neuroimaging in model development from preclinical animal models, to human experimental medicine, and finally to clinical studies. The focus of this book is to identify and provide common endpoints between species that can serve to inform both the clinic and the bench with the information needed to accelerate clinically-effective CNS drug discovery. This book covers methodical issues in human and animal neuroimaging translational research as well as detailed applied examples of the use of neuroimaging in neuropsychiatric disorders and the development of drugs for their treatment. Offering an accompanying website with illustrations and text available for further knowledge and presentations, *Translational Neuroimaging: Tools for CNS Drug Discovery, Development and Treatment* appeals to non-clinical and clinical neuroscientists working in and studying neuropsychiatric disorders and their treatment as well as providing the novice researcher or researcher outside of his/her expertise the opportunity to understand the background of translational research and the use of imaging in this field.

- Provides a background to translational research and the use of brain imaging in neuropsychiatric disorders
- Critical discussion of the potential and limitations of neuroimaging as a translational tool for identifying and validating biomarkers
- Identifies cross species neurosystems and common endpoints necessary to help accelerate CNS drug discovery and development for the treatment of neuropsychiatric disorders
- Features an accompanying website with additional images and text



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