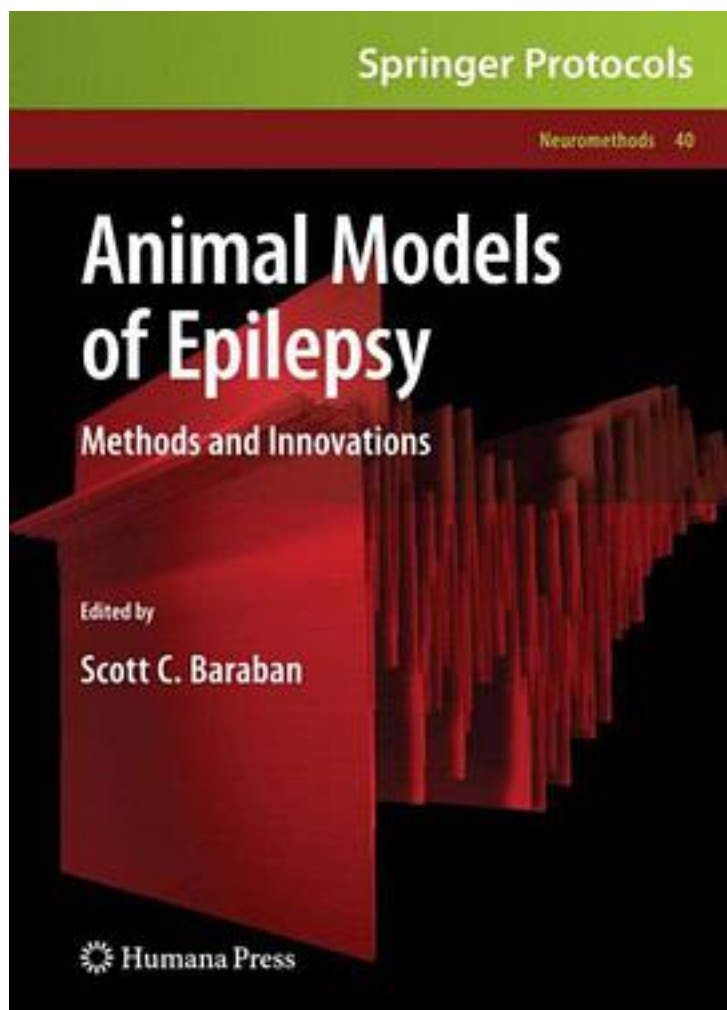


# Animal Models of Epilepsy



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出版者:

出版时间:2009-6

装帧:

isbn:9781603272629

With its complex anatomical, molecular, electrophysiological and behavioral

components, epilepsy provides the neuroscientist with nearly boundless opportunities to examine basic neurobiological mechanisms. In *Animal Models of Epilepsy: Methods and Innovations*, prominent investigators in the field examine several novel models of epilepsy in mice as well as in genetically tractable "simple" species such as *Drosophila melanogaster* (fruit flies), *Caenorhabditis elegans* (worms), *Xenopus laevis* (tadpoles) and *Danio rerio* (zebrafish). While covering some traditional models, the volume also explores the newest innovations like modeling seizure activity in silica and advanced strategies for seizure detection and gene therapy. As a volume in the successful Neuromethods(t) series, the chapters provide clear, step-by-step protocols and thought-provoking reviews of the most recent advancements in the field. Comprehensive and cutting-edge, *Animal Models of Epilepsy: Methods and Innovations* is an ideal guide for scientists who wish to expand our understanding of the pathogenesis of this neurological disorder.

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