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nervous system drug delivery principles and practice helps users understand the nervous system physiology affecting drug delivery the principles that

underlie various drug delivery methods and the appropriate application of drug delivery methods for drug and disease specific treatments researchers developing nervous system putative therapeutic agents will use this book to optimize drug delivery during preclinical assessment and to prepare for regulatory advancement of new agents clinicians will gain direct insights into pathophysiologic alterations that impact drug delivery and students and trainees will find this a critical resource for understanding and applying nervous system drug delivery techniques offers an up to date comprehensive resource on drug delivery to the nervous system provides a bridge for understanding across nervous system delivery related physiology drug delivery principles and the methodologies that underlie the various methods of drug distribution with clinical application written for a broad audience of researchers clinicians and advanced graduate students in neuroscience neurology neurosurgery pharmacology radiology and psychiatry

amyotrophic lateral sclerosis als is a rapidly progressive devastating and fatal disease characterized by selective loss of upper and lower motor neurons of the cerebral cortex brainstem spinal cord and muscle atrophy in spite of many years of research the pathogenesis of als is still not well understood als is a multifaceted genetic disease in which genetic susceptibility to motor neuron death interacts with environmental factors and there is still no cure for this deleterious disease at present there is only one fda approved drug riluzole which according to past studies only modestly slows the progression of the disease and improves survival by up to three months the suffering of the als patients and their families is enormous and the economic burden is colossal there is therefore a pressing need for new therapies different molecular pathways and pathological mechanisms have been implicated in als according to past studies altered calcium homeostasis abnormal mitochondrial function protein misfolding axonal transport defects excessive production of extracellular superoxide radicals glutamate mediated excitotoxicity inflammatory events and activation of oxidative stress pathways within the mitochondria and endoplasmic reticulum can act as major contributor that eventually leads to loss of connection between muscle and nerve ultimately resulting to als however the detailed molecular and cellular pathophysiological mechanisms and origin and temporal progression of the disease still remained elusive ongoing research and future advances will likely advance our improve understanding about various involved pathological mechanism ultimately leading to discoveries of new therapeutic cures importantly clinical biomarkers of disease onset and progression are thus also urgently needed to support the development of the new therapeutic agents and novel preventive and curative strategies effective translation from pre clinical to clinical studies will further require extensive knowledge regarding drug activity bioavailability and efficacy in both the pre clinical and clinical setting and proof of biological activity in the target tissue during the last decades the development of new therapeutic molecules advance neuroimaging tools patient derived induced stem cells and new precision medicine approaches to study als has significantly improved our understanding of disease in particular new genetic tools neuroimaging

methods cellular probes biomarker study and molecular techniques that achieve high spatiotemporal resolution have revealed new details about the disease onset and its progression in our effort to provide the interested reader clinician and researchers a comprehensive summaries and new findings in this field of als research hereby we have created this electronic book which comprises of twenty seven chapters having various reviews perspective and original research articles all these chapters and articles in this book not only summarize the cutting edge techniques approaches cell and animal models to study als but also provide unprecedented coverage of the current developments and new hypothesis emerging in als research some examples are novel genetic and cell culture based models mitochondria mediated therapy oxidative stress and ros mechanism development of stem cells and mechanism based therapies as well as novel biomarkers for designing and testing effective therapeutic strategies that can benefit als patients who are at the earlier stages in the disease i am extremely grateful to all the contributors to this book and want to thank them for their phenomenal efforts manoj kumar jaiswal ph d february 5 2017 new york ny

proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

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