



Neurodegeneration: The Molecular Pathology of Dementia and Movement Disorders

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Most textbooks on neurodegenerative disorders have used a classification scheme based upon either clinical syndromes or anatomical distribution of the pathology. In contrast, this book looks to the future and uses a classification based upon molecular mechanisms, rather than clinical or anatomical boundaries. Major advances in molecular genetics and the application of biochemical and immunocytochemical techniques to neurodegenerative disorders have generated this new approach. Throughout most of the current volume, diseases are clustered according to the proteins that accumulate within cells (e.g. tau, α -synuclein and TDP-43) and in the extracellular compartments (e.g. β -amyloid and prion proteins) or according to a shared pathogenetic mechanism, such as trinucleotide repeats, that are a feature of specific genetic disorders. Chapters throughout the book conform to a standard lay-out for ease of access by the reader and are written by a panel of International Experts. Since the first edition of this book, major advances have been made in the discovery of common molecular mechanisms between many neurodegenerative diseases most notably in the frontotemporal lobar degenerations (FTLD) and motor neuron disease or amyotrophic lateral sclerosis. This book will be essential reading for clinicians, neuropathologists and basic neuroscientists who require the firm up-to-date knowledge of mechanisms, diagnostic pathology and genetics of Neurodegenerative diseases that is required for progress in therapy and management.

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Editorial Review

Review

“Overall, this textbook provides useful and systematic information on the basic mechanisms of neurodegenerative diseases. It will provide useful for resident trainees, neurologists and pathologists.”
(*Canadian Journal of Neurological Sciences*, 1 November 2012)

From the Back Cover

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Donald Rose:

This Neurodegeneration: The Molecular Pathology of Dementia and Movement Disorders book is not really ordinary book, you have it then the world is in your hands. The benefit you have by reading this book is information inside this e-book incredible fresh, you will get info which is getting deeper an individual read a lot of information you will get. That Neurodegeneration: The Molecular Pathology of Dementia and Movement Disorders without we understand teach the one who reading it become critical in thinking and analyzing. Don't be worry Neurodegeneration: The Molecular Pathology of Dementia and Movement Disorders can bring whenever you are and not make your carrier space or bookshelves' grow to be full because you can have it in the lovely laptop even cellphone. This Neurodegeneration: The Molecular Pathology of Dementia and Movement Disorders having good arrangement in word and layout, so you will not really feel uninterested in reading.

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