



The Molecular and Genetic Basis of Neurologic and Psychiatric Disease, 3e

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110 of the world's foremost authorities explore the latest advances in molecular and cellular neurobiology and molecular neurogenetics and their implications for the development of pharmacologic or gene therapy for patients with genetic diseases of the nervous system. The 3rd Edition features a new section on psychiatric diseases, 26 additional new chapters, and an even stronger clinical focus, offering practical guidance on a full range of diseases and the roles that molecular biology and genetics play in their diagnosis and management. the latest advances in molecular research.

- Includes a brand-new section on Psychiatric Diseases, edited by Dr. Eric J. Nestler, that features chapters on Challenges in Psychiatric Genetics · Depression · Bipolar Disorders · Schizophrenia · Obsessive-Compulsive Disorder and Tourette's Syndrome · Molecular and Genetic Basis of Addiction · and Autism.
- Offers two new chapters on Degenerative Diseases and Protein Processing and Prion Diseases, authored by Dr. Stanley B. Prusiner, winner of the 1997 Nobel Prize in Medicine for his research defining the molecular and genetic basis of the spongiform encephalopathies and the expression of the prion gene under both physiologic and pathologic conditions.
- Incorporates new data and insights from the analysis and sequencing of the human genome into three new chapters on The Human Genome Project and Neurological Disease, Gene Therapy, and Ethical Issues in Diagnosis and Therapy.
- Features 21 additional new chapters: Animal Models (mice, worms, flies) · Gene Targeting/Gene Mapping · Genotype/Phenotype Correlations · Mitochondrial Disorders Due to Mutations in the Nuclear Genome · Mitochondria in Neurodegenerative Disorders · Lysosomal Membrane Disorders - LAMP-2 Deficiency · Alzheimer's Disease and Related Dementias · Movement Disorders · Neuronopathies · Limb Girdle Muscular Dystrophies · Congenital Myopathies · Hereditary Inclusion - Body Myopathies · Facioscapulohumeral Muscular Dystrophy · The Phakomatoses: Disorders of Skin and Brain · Disorder of Galactose Metabolism · Disorders of Glucose Transport · Congenital Disorders of Glycosylation · Disorders of Glutathione Metabolism · Friedreich Ataxia and Iron Metabolism · The Influence of Alpha Tocopherol, Caloric Restriction and Genes on Life Span · and A Neurologic Gene Map.

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