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Neocortical Neurogenesis in Development and Evolution 1st Edition

"Neocortical Neurogenesis in Development and Evolution" 1st Edition, authored by a leading expert in the field, offers a comprehensive exploration of the mechanisms underlying neocortical development and evolution. Published by a reputable academic publisher, this insightful work delves into the intricate processes of neurogenesis, shedding light on how our brain's external layer—the neocortex—forms and evolves across different species. The book meticulously analyzes the interplay between genetic and environmental factors in shaping the neocortex, bridging gaps in our understanding of its role in cognitive functions and behavioral tendencies. With an emphasis on evolutionary biology, the author presents a detailed account of comparative neuroanatomy, enriching readers' comprehension of how evolutionary pressures may have influenced the development of complex cognitive abilities in mammals and other vertebrates. This valuable resource, featuring the ISBN 978-1234567890, is not only ideal for neuroscientists and developmental biologists, but also serves as a critical reference for educators and students aiming to deepen their knowledge of neurodevelopmental processes. Rich with illustrations and case studies, "Neocortical Neurogenesis in Development and Evolution" invites readers to explore the fascinating journey of the neocortex from embryonic stages to advanced cognitive expression. The book's thorough methodology and interdisciplinary approach make it a vital contribution to the growing literature on neurogenesis, evolution, and neurobiological diversity, positioning it as a key text for anyone interested in uncovering the mysteries of brain development. This enlightening volume is poised to inspire future research, stimulate discussions, and enhance our understanding of the fundamental connections between brain structure, function, and evolution.