Adult Neurogenesis in the Hippocampus

Description: Neurogenesis in the adult brain has emerged as one of the most dynamic and rapidly moving fields in modern neuroscience research. The implications of adult neurogenesis for health and well-being are wide-ranging, with findings in this area having distinct relevance for treatment and rehabilitation in neurology and psychopathology. Adult Neurogenesis in the Hippocampus addresses these implications by providing an up-to-date account on how neurogenesis in the adult hippocampus contributes to critical psychological and physiological processes, such as learning and memory, and how it is modified by life experiences, such as aging, environmental enrichment, exercise, and dieting. The book also provides the most current reviews of how adult hippocampal neurogenesis influences the pathogenesis of mood disorders, addiction, and key neurological disorders. This book is the ideal resource for researchers and advanced graduates seeking focused knowledge on the role of adult neurogenesis in brain health and disease.

- Provides a unique overview of how adult hippocampal neurogenesis contributes to adaptive processes, brain psychopathology, and disease
- Includes state-of-the-art reviews by leading world experts in adult neurogenesis
- Companion website featuring supplemental learning materials

Contents:

Part I: Neurobiology and Physiology of Hippocampal Neurogenesis
1. Neurobiology of hippocampal neurogenesis  Jose M. Garcia-Verdugo and Arturo Alvarez-Buylla
2. Physiology and plasticity  Shaoyu Ge
3. Neurochemical and molecular regulation of hippocampal neurogenesis  Sebastian Jessberger

Part II: Neurogenesis in Health and Well-being
4. Learning and memory  Martin Wojtowicz
5. Physical activity/enrichment  Brian R. Christie
6. Nutrition and dieting  Sandrine Thuret
7. Aging  Sebastien Couillard-Despres

Part III: Neurogenesis in Psychopathology and Disease
8. Depression  Paul J. Lucassen
9. Anxiety and stress disorders  Catherine Belzung
10. Addiction  Amelia Eisch and Juan J. Canales
11. Neurological Disorders  Kwok-Fai So

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