Contents

Zareen Amtul and Atta-ur-Rahman
Neural plasticity and memory: molecular mechanism — 253

Andrea Aguilar-Arredondo, Clorinda Arias and Angélica Zepeda
Evaluating the functional state of adult-born neurons in the adult dentate gyrus of the hippocampus: from birth to functional integration — 269

Da Duan and Ming Lu
Olfactory mucosa: a rich source of cell therapy for central nervous system repair — 281

Tereza Touskova and Petr Bob
Consciousness, awareness of insight and neural mechanisms of schizophrenia — 295

Marzieh Sarbandi Farahani, Roodabeh Bahramsoltani, Mohammad Hosein Farzaei, Mohammad Abdollahi and Roja Rahimi
Plant-derived natural medicines for the management of depression: an overview of mechanisms of action — 305

Monica Baciu and Marcela Perrone-Bertolotti
What do patients with epilepsy tell us about language dynamics? A review of fMRI studies — 323

Qing Lin, Wen-Qing Huang and Chi-Meng Tzeng
Genetic associations of leukoaraiosis indicate pathophysiological mechanisms in white matter lesions etiology — 343

Ruben K. Dagda and Tania Das Banerjee
Role of protein kinase A in regulating mitochondrial function and neuronal development: implications to neurodegenerative diseases — 359