Chapter 1 Higher cognitive function processing in developmental age: specialized areas, connections and distributed networks
Daria Riva

Frontal lobes

Chapter 2 Frontal lobes: anatomy, connections and functions
Alessandra Erbetta

Chapter 3 Role of the parieto-frontal mirror system
Leonardo Fogassi

Chapter 4 Memory and frontal lobe in typical and atypical development
Stefano Vicari, Floriana Costanzo, Pamela Varvara and Deny Menghini

Chapter 5 Development of executive function
Giovanni Valeri

Chapter 6 Neuropsychology of epilepsies involving the frontal lobe in children
Chiara Vago, Sara Bulgheroni and Daria Riva

Chapter 7 Social problem-solving after traumatic brain injury in children
Gerri Hanten, Elisabeth A. Wilde and Harvey S. Levin

Chapter 8 The role of phonological working memory in specific language impairment
Daniela Brizzolara, Claudia Casalini, Anna Chilosi and Chiara Pecini
Chapter 9  Neuroanatomic organization and fundamental functions of the hippocampus and amygdala
  *Pierre Lavenex*

Chapter 10 Early hippocampal disease and memory disorders
  *Daria Riva, Arianna Usilla, Chiara Vago and Sara Bulgheroni*

Chapter 11 Language disorders in children with morphologic abnormalities of the hippocampus
  *Josette Mancini, Guillaume Agostini, Nathalie Villeneuve, Mathieu Milh, Florence George, Brigitte Chabrol and Nadine Girard*

Chapter 12 Hippocampus, neurotrophic factors, and depression: possible targets for antidepressant medication
  *Gabriele Masi, Paola Brovedani and Angela Magazù*

Chapter 13 The role of the hippocampus in neural mechanisms of attachment and attachment disorders: a review
  *Charles Njokiktjien and Catharina Anna Verschoor*

Chapter 14 Music, emotions and the limbic system
  *Maria Cristina Saccuman, Guido Andreolli and Danilo Spada*

Chapter 15 The amygdala and the pathophysiology of autism
  *Baris Korkmaz*

Chapter 16 Long-term neurobiologic impact of extreme early institutional deprivation in the English and Romanian Adoptees study: initial findings and future plans
  *Edmund J.S. Sonuga-Barke, Robert Kunsta and Mitul A. Mehta*

**Visuocognitive system**

Chapter 17 Visual field defects and visual search abilities in children with focal brain lesions
  *Giovanni Cioni and Francesca Tinelli*

Chapter 18 Neurophysiologic and behavioural aspects of visual assessment: correlation with neuroimaging
  *Oliver Braddick and Janette Atkinson*

Chapter 19 Linked brain development for vision, visual attention and visual cognition in typical development and in developmental disorders
  *Janette Atkinson and Oliver Braddick*

Chapter 20 Visuocognitive and visual disorders in children born preterm
  *Sara Bulgheroni, Chiara Treccani, Daria Riva, Giovanni Cioni and Francesca Tinelli*