
Contents

Chapter 1	Introduction	1
	Rita Moretti, Paola Torre and Rodolfo M. Antonello	
Chapter 2	Anatomy of Basal Ganglia and Thalamus	3
	Rita Moretti, Paola Torre, Rodolfo M. Antonello, and Antonio Bava	
Chapter 3	Anatomy of White Matter	13
	Rita Moretti, Paola Torre and Rodolfo M. Antonello	
Chapter 4	Basal Ganglia Region: Surgical and Anatomical Consideration	17
	Alessandro Melatini	
Chapter 5	Physiology of Basal Ganglia and Thalamus Circuits	27
	Rita Moretti, Paola Torre, Rodolfo M. Antonello, and Antonio Bava	
Chapter 6	How are Basal Ganglia and Thalamus Related to Cognition and Behaviour?	33
	Rita Moretti, Paola Torre, Rodolfo M. Antonello, and Antonio Bava	
Chapter 7	Behavioural Conditioning Exerted by Basal Ganglia	39
	Rita Moretti, Paola Torre and Rodolfo M. Antonello	
Chapter 8	Apathy and Basal Ganglia	43
	Rita Moretti and Paola Torre	
Chapter 9	Parkinson's Disease as a Model of Basal Ganglia Disruption	49
	Rita Moretti, Paola Torre, Rodolfo M. Antonello, and Antonio Bava	
Chapter 10	Deep Brain Stimulation of the Subthalamus: Neuropsychological Effects	59
	Rita Moretti, Paola Torre, Rodolfo M. Antonello, and Antonio Bava	
Chapter 11	Liver Diseases and Basal Ganglia	73
	Monica Asaro	

Chapter 12	Basal Ganglia and Language	79
	Rita Moretti, Paola Torre and Rodolfo M. Antonello	
Chapter 13	Basal Ganglia and Polylinguism	87
	Rita Moretti, Paola Torre, Rodolfo M. Antonello, Antonio Bava	
Chapter 14	Cortical or Subcortical Dementia: A Neuropsychological Comparison	97
	Rita Moretti, Paola Torre, Valentina Martin, and Rodolfo M. Antonello	
Chapter 15	The Thalamus: Its Role in Cognition and Behaviour	105
	Rita Moretti, Paola Torre, Rodolfo M. Antonello, Antonio Bava	
Chapter 16	The Thalamus and the Clinical Reality	109
	Rita Moretti, Paola Torre and Rodolfo M. Antonello	
Chapter 17	Imaging of Basal Ganglia	119
	Maja Ukmari and Elena Trincia	
Conclusions		129
References		131
Index		157