

# Contents

<b>Contributing Authors .....</b>	<b>xi</b>
<b>Preface .....</b>	<b>xv</b>
<b>Section 1: Clinical Phenomenology</b>	
1. Phenomenology and Natural History of Tic Disorders .....	1
<i>James F. Leckman, Michael H. Bloch, Robert A. King, Lawrence Scahill</i>	
<b>Section 2: Co-Morbid Disorders</b>	
2. Attention Deficit Hyperactivity Disorder: The Childhood Co-Morbidity That Most Influences the Disability Burden in Tourette Syndrome .....	17
<i>Martha Bridge Denckla</i>	
3. Obsessive-Compulsive Disorder in Tourette Syndrome .....	22
<i>Ana G. Hounie, Maria Conceição do Rosario-Campos, Juliana Diniz, Roseli G. Shavitt, Ygor Ferrão, Antonio Carlos Lopes, Marcos Tomanik Mercadante, Geraldo Busatto, Eurípedes C. Miguel</i>	
4. Behavioral and Affective Disorders in Tourette Syndrome .....	39
<i>Mary M. Robertson</i>	
5. Tics Associated with Other Disorders .....	61
<i>Joseph Jankovic, Nicte I. Mejia</i>	
<b>Section 3: New Findings in Basic Neurosciences</b>	
6. Preclinical Models Relevant to Tourette Syndrome .....	69
<i>Neal R. Swerdlow, Ashley N. Sutherland</i>	
7. Neurobiology of Basal Ganglia and Tourette Syndrome: Basal Ganglia Circuits and Thalamocortical Outputs .....	89
<i>Jonathan W. Mink</i>	
8. Neurobiology of Basal Ganglia and Tourette Syndrome: Striatal and Dopamine Function .....	99
<i>Roger L. Albin</i>	
<b>Section 4: Neuroimaging and Neurophysiology</b>	
9. Motor Cortex Inhibitory Function in Tourette Syndrome, Attention Deficit Disorder, and Obsessive Compulsive Disorder: Studies Using Transcranial Magnetic Stimulation .....	107
<i>Donald L. Gilbert</i>	

10. Functional Neuroimaging of Tourette Syndrome: Advances and Future Directions ..... 115  
*Tracy Butler, Emily Stern, David Silbersweig*

### **Section 5: Genetics and Molecular Biology of TS**

11. A Genome-Wide Scan and Fine Mapping in Tourette Syndrome Families ..... 130  
*David L. Pauls*
12. Web-Based Consensus Diagnosis for Genetics Studies of Gilles de la Tourette Syndrome ..... 136  
*William M. McMahon, Cornelia L. Illmann, Meghan M. McGinn*
13. Genes and Tourette Syndrome: Scientific, Ethical, and Social Implications ..... 144  
*Nancy M. P. King*

### **Section 6: Immunology and TS**

14. Preclinical/Clinical Evidence of Central Nervous System Infectious Etiology in PANDAS ..... 148  
*Tanya K. Murphy, David S. Husted, Paula J. Edge*
15. PANDAS: Overview of the Hypothesis ..... 159  
*Gavin Giovannoni*
16. Autoimmunity and Pediatric Movement Disorders ..... 166  
*Harvey S. Singer, Phillip N. Williams*
17. PANDAS: To Treat or Not to Treat? ..... 179  
*Robert A. King*

### **Section 7: Epidemiology and Defining the Phenotype**

18. Disruptive Behavior Problems in a Community Sample of Children with Tic Disorders ..... 184  
*Lawrence Scahill, Susan Williams, Mary Schwab-Stone, Judy Applegate, James F. Leckman*

### **Section 8: Advances in Treatment**

19. Treatment of Tics ..... 191  
*Leon S. Dure IV, Jennifer DeWolfe*
20. Attention Deficit Hyperactivity Disorder, Chronic Tic Disorder, and Methylphenidate ..... 197  
*Kenneth D. Gadow, Jeffrey Sverd*
21. Treatment of Co-Morbid Obsessive Compulsive Disorder, Mood, and Anxiety Disorders ..... 208  
*Barbara J. Coffey, Rachel Shechter*
22. Treatment of Aggression in Tourette Syndrome ..... 222  
*Cathy L. Budman*

23.	Behavioral Treatments for Tic Suppression: Habit Reversal Training .....	227
	<i>John Piacentini, Susanna Chang</i>	
24.	Behavior Therapy: Other Interventions for Tic Disorders .....	234
	<i>Douglas W. Woods, Michael B. Himle, Christine Conelea</i>	
25.	Behavioral Neurosurgery .....	241
	<i>Donald Malone, Mayur Pandya</i>	
26.	Future and Alternative Therapies in Tourette's Syndrome .....	248
	<i>Roger Kurlan</i>	
	<b>Subject Index .....</b>	<b>255</b>