Contents

List of figures vii
List of tables ix
List of contributors xi
Preface xv
List of abbreviations xvii

Part I – Clinical relevance of cognitive dysfunction in major depressive disorder

1 Does cognitive dysfunction predate the onset of incident depression? 1
Julia Buthmann, Danielle S. Cha, and Roger S. McIntyre

2 Understanding the importance of cognitive dysfunction and cognitive change in major depressive disorder 15
Paul Maruff and Judith Jaeger

3 Cognition in MDD: implications for primary care 30
Larry Culpepper

4 Neurocognition in pediatric depression 47
Dwight F. Newton, Melanie R. Naiberg, and Benjamin I. Goldstein

5 Neuroanatomy of cognition in major depressive disorder 60
Guy M. Goodwin

6 Hot and cold cognition in major depressive disorder 69
Oliver J. Robinson, Jonathan P. Roiser, and Barbara J. Sahakian

7 Social cognition and emotional processing in major depressive disorder 81
Philippe Fossati and Sophie Hinfray

8 The role of social cognition in major depressive disorder 92
Bernhard T. Baune and Michael Weightman

9 Are cognitive deficits in major depressive disorder progressive? 110
Marie Laure Cléry-Melin and Philip Gorwood

10 Implications of cognitive impairments on functional outcomes in major depressive disorder 125
Tracy L. Greer and Cassandra R. Hatt

Part II – Underlying biological substrates associated with cognitive dysfunction in major depressive disorder

11 Cognition and biomarkers in major depressive disorder: endophenotype or epiphenomenon? 145
Shane J. McInerney, Philip Gorwood, and Sidney H. Kennedy
Table of Contents

12 Inflammation and cognition in major depressive disorder 160
   Bernhard T. Baune
13 HPA axis and cognitive dysfunction in mood disorders 179
   Rebecca Strawbridge and Allan H. Young
14 White matter neurobiology and cognitive dysfunction in major depressive disorder 194
   Geoffrey Chern-Yee Tan and Kang Sim
15 Insulin resistance and implications for hippocampal volume/function and the default mode network 209
   Heather A. Kenna, Tonita E. Wroolie, Danielle R. Balzafio, and Natalie L. Rasgon

Part III – Evaluating cognitive dysfunction in major depressive disorder

16 Measuring the mind: detecting cognitive deficits and measuring cognitive change in patients with depression 229
   John E. Harrison
17 Subjective measures of cognitive dysfunction in major depressive disorder 242
   Raymond W. Lam

Part IV – Treatment opportunities for ameliorating cognitive dysfunction in major depressive disorder

18 Neuroscience of functional outcomes and treatment targets in major depressive disorder 257
   Lisanne M. Jenkins, Amy Peters, Rachel H. Jacobs, and Scott A. Langenecker
19 Treatment of cognitive dysfunction in adults with major depressive disorder 274
   Roger S. McIntyre, Kahlood Syeda, and Danielle S. Cha
20 A novel treatment targeting cognitive dysfunction in mood disorders 289
   Kamilla W. Miskowiak
21 Cognitive remediation for major depressive disorder 306
   Christopher R. Bowie
22 Exercise and cognition 321
   Guy Faulkner, Markus J. Duncan, and Mehala Subramaniapillai

Index 339

Color plate section between pp. 233 and 234