Contents

1 Introduction ................................................ 1
   References and Notes ........................................... 6

2 Uncovering the Interaction of Chemistry and Behavior in Depression: The Dimensional Versus Diagnostic Approaches in Structuring Research .......... 9
   Neurotransmitter-Behavioral Relationships ................. 11
   References and Notes ........................................... 13

3 Depression is a “Storm” not a Lowering of Spirit:
   The Experience and Psychology of the Severe Depressive State .... 15
   The Impact of the Drugs on US and European Theoretical Orientations......................................................... 16
   The Experiential State ......................................... 17
   The Impact of the Drug Era. .................................... 18
   References ..................................................... 19

4 “Rashomon” and the Componential Approach to
   Developing Measures of Mood and Behavior ................. 21
   The “Multi-vantaged” Method: The “Rashomon” Approach ........ 25
   Video Interview Behavioral Evaluation Study (VIBES) [15] ......... 27
   Applying the Multi-vantage Behavioral Method to Studying the Nature of the Depressed State: The Components, Dimensions, and the Conflictual Nature of the State ............. 29
   The Key Roles of Anxiety and Hostility in the Patient Profile .... 29
   References ..................................................... 32

5 Dimensions of Depression:
   The Conflictual Structure of the Depressed State ............ 35
   A Multidimensional Theory of the Nature of Depression ....... 36
   References ..................................................... 37
6 False Assumptions: The Multidimensional Quality and its Relationships to Functioning of the Central Nervous System 39
Behavioral Correlates of Central Neurotransmitters in the Affective Disorders [13–15] 40
The Noradrenergic Systems and Behavior 41
Serotonin and Behavior 42
On Dopamine 43
The Neurotransmitter Systems and Depression: Relating Actions of the Noradrenergic and Serotonergic Systems to Specific Behavioral Changes in Depressed Patients 44
The Therapeutic Process: The Sequence and Nature of Tricyclic Drug Actions in Depression 46
Linking Behavioral Changes with Drug-Induced Changes in Neurotransmitter System Functioning: Relationships of Changes in Cerebrospinal Fluid Concentrations of Neurotransmitter Metabolites and Behavior 49
References 50

7 Testing New Hypotheses About Neurochemistry, Depression, and Drugs 53
On Pharmacologically Different Drugs 55
References 59

8 Developing a More Effective and More Efficient Clinical Trial Model 61
The Current Food and Drug Administration (FDA) Endorsed Clinical Trial Model for Evaluating Putative New Antidepressants 62
Advancing the Current Clinical Trials Procedure: An Alternative Model 64
The Component-Specific Clinical Trial 66
The Component: Specific Clinical Trial and Methods of Measuring Components of the Depressive Disorder 67
Conclusions 70
References 71

9 Elaboration of the New Theory of Depression and Conclusions 73
On the Concept of Depression. 77
Rethinking Depression: The New Conflictual Neurobehavioral States Hypothesis 77
References 79
Contents

PostScript: The Proposed New Concept of Depression and the Methodology Recommended for its Measurement in Future Studies in Clinical Psychopharmacology 81

Appendix 1: The Multivantaged Assessment Methods 83

Appendix 2: The Video Interview Behavior Evaluation Scales 85

Index 89
Depression and Drugs
The Neurobehavioral Structure of a Psychological Storm
Katz, M.M.
2013, XVII, 92 p. 8 illus., Softcover
ISBN: 978-3-319-00388-7