# Contents

Credits vii  
List of Illustrations viii  
About the Editors x  
List of Contributors xi  
Preface xiii  

Introduction: Critical Neuroscience—Between Lifeworld and Laboratory 1  
*Suparna Choudhury and Jan Slaby*

**Part I—Motivations and Foundations** 27  
1 Proposal for a Critical Neuroscience 29  
*Jan Slaby and Suparna Choudhury*  
2 The Need for a Critical Neuroscience: From Neuroideology to Neurotechnology 53  
*Steven Rose*  
3 Against First Nature: Critical Theory and Neuroscience 67  
*Martin Hartmann*  
4 Scanning the Lifeworld: Toward a Critical Neuroscience of Action and Interaction 85  
*Shaun Gallagher*

**Part II—Histories of the Brain** 111  
5 Toys are Us: Models and Metaphors in Brain Research 113  
*Cornelius Borek*  
6 The Neuromance of Cerebral History 135  
*Max Stadler*  
7 Empathic Cruelty and the Origins of the Social Brain 159  
*Allan Young*
Contents

Part III—Neuroscience in Context: From Laboratory to Lifeworld 177

8 Disrupting Images: Neuroscientific Representations in the Lives of Psychiatric Patients 179
Simon Cohn

9 Critically Producing Brain Images of Mind 195
Joseph Dumit

10 Radical Reductions: Neurophysiology, Politics and Personhood in Russian Addiction Medicine 227
Eugene Raikhel

11 Delirious Brain Chemistry and Controlled Culture: Exploring the Contextual Mediation of Drug Effects 253
Nicolas Langlitz

Part IV—Situating the Brain: From Lifeworld Back to Laboratory? 263

12 From Neuroimaging to Tea Leaves in the Bottom of a Cup 265
Amir Raz

13 The Salmon of Doubt: Six Months of Methodological Controversy within Social Neuroscience 273
Daniel S. Margulies

14 Cultural Neuroscience as Critical Neuroscience in Practice 287
Joan Y. Chiao and Bobby K. Cheon

Part V—Beyond Neural Correlates: Ecological Approaches to Psychiatry 305

15 Re-Socializing Psychiatry: Critical Neuroscience and the Limits of Reductionism 307
Laurence J. Kirmayer and Ian Gold

16 Are Mental Illnesses Diseases of the Brain? 331
Thomas Fuchs

17 Are there Neural Correlates of Depression? 345
Fernando Vidal and Francisco Ortega

18 The Future of Critical Neuroscience 367
Laurence J. Kirmayer

Index 385