



MIND, COGNITION, AND NEUROSCIENCE

A PHILOSOPHICAL INTRODUCTION

BENJAMIN D. YOUNG AND CAROLYN DICEY JENNINGS

ROUTLEDGE

616624890
012556476
12261154x

Mind, Cognition, and Neuroscience

A Philosophical Introduction

Benjamin D. Young and
Carolyn Dicey Jennings



2325 (R.3) 1

Contents

<i>Notes on Contributors</i>	<i>viii</i>
<i>List of Figures</i>	<i>xii</i>
<i>List of Tables</i>	<i>xiv</i>
<i>List of Boxes</i>	<i>xv</i>
1 Introduction—Mind, Cognition, and Neuroscience CAROLYN DICEY JENNINGS AND BENJAMIN D. YOUNG	1
Part I: Background Knowledge	15
2 Introduction to Cognitive Neuroscience ADINA L. ROSKIES	17
3 Introduction to Molecular and Cellular Cognition JOHN BICKLE AND ANN-SOPHIE BARWICH	32
4 Introduction to Experimental Methods in Cognitive Neuroscience KRISTINA C. BACKER	51
5 Introduction to Philosophy of Mind JOSEPH VUKOV	70
6 Introduction to Philosophy of Science CARLOS MARISCAL	84
7 Metaphysical Issues of Relevance to Cognitive Neuroscience CRYSTAL A. L'HOTE	99
8 Epistemic Issues Pertaining to Neuroscientific Methods NINA A. ATANASOVA	112
Part II: Classical Debates	125
9 Artificial Intelligence and Computational Theories of Mind DAVID C. NOELLE AND JEFFREY YOSHIMI	127

10	Modularity	149
	ALEKSANDRA MROCZKO-WĄSOWICZ	
11	Mental Architecture—Computational Models of Mind	164
	OTHALIA LARUE, JEAN-NICOLAS BOURDON, MYLÈNE LEGAULT, AND PIERRE POIRIER	
12	Language	183
	DAVID PEREPLYOTCHIK	
13	Mental Content	199
	KRZYSZTOF DOŁĘGA AND TOBIAS SCHLICHT	
14	Concepts and Nonconceptual Content	214
	ARNON CAHEN	
15	Animal Cognition	229
	IRINA MIKHALEVICH	

Part III: Consciousness **249**

16	Kinds of Consciousness	251
	JACOB BERGER	
17	Philosophical Theories of Consciousness	266
	WILLIAM G. LYCAN	
18	Neurobiological Theories of Consciousness	280
	MYRTO MYLOPOULOS	
19	The Unity of Consciousness	294
	ROCCO J. GENNARO	
20	Attention	308
	CAROLYN DICEY JENNINGS	
21	Memory	325
	FELIPE DE BRIGARD AND SARAH ROBINS	
22	The Unconscious Mind	344
	ALON GOLDSTEIN AND BENJAMIN D. YOUNG	

Part IV: Crossing Boundaries **365**

23	Perception	367
	TONY CHENG	
24	Mental Imagery	385
	AMY KIND	

25	Action and Skill	400
	KATERYNA SAMOILOVA	
26	Embodiment and Enactivism	414
	AMANDA CORRIS AND ANTHONY CHEMERO	
27	Emotion	429
	SARAH ARNAUD AND JESSE PRINZ	
28	Social Cognition and Theory of Mind	447
	EVAN WESTRA	
29	Neuroscience and Psychopathologies	462
	DOMINIC MURPHY, GEMMA LUCY SMART, AND ALEXANDER PEREIRA	
30	Neuroethics	479
	KATRINA L. SIFFERD AND JOSHUA E. VANARSDALL	
	<i>Glossary</i>	498
	<i>Index</i>	515