

Contents

<i>List of Figures</i>	<i>page</i> viii
<i>List of Tables</i>	xi
<i>List of Contributors</i>	xii
<i>Acknowledgments</i>	xiv
 Introduction	 1
REX E. JUNG AND OSHIN VARTANIAN	
 Part I Fundamental Concepts	
1 Creative Ideas and the Creative Process: Good News and Bad News for the Neuroscience of Creativity	9
DEAN KEITH SIMONTON	
2 Homeostasis and the Control of Creative Drive	19
ALICE W. FLAHERTY	
3 Laterality and Creativity: A False Trail?	50
MICHAEL C. CORBALLIS	
4 The Neural Basis and Evolution of Divergent and Convergent Thought	58
LIANE GABORA	
 Part II Pharmacology and Psychopathology	
5 Stress, Pharmacology, and Creativity	73
DAVID Q. BEVERSDORF	
6 Functional Neuroimaging of Psychedelic Experience: An Overview of Psychological and Neural Effects and their Relevance to Research on Creativity, Daydreaming, and Dreaming	92
KIERAN C. R. FOX, MANESH GIRN, CAMERON C. PARRO, AND KALINA CHRISTOFF	
7 A Heated Debate: Time to Address the Underpinnings of the Association between Creativity and Psychopathology?	114
SIMON KYAGA	
8 Creativity and Psychopathology: A Relationship of Shared Neurocognitive Vulnerabilities	136
SHELLEY H. CARSON	

Part III Attention and Imagination		
9	Attention and Creativity	161
	DARYA L. ZABELINA	
10	Internally Directed Attention in Creative Cognition	180
	MATHIAS BENEDEK	
11	The Forest versus the Trees: Creativity, Cognition and Imagination	195
	ANNA ABRAHAM	
12	A Common Mode of Processing Governing Divergent Thinking and Future Imagination	211
	REECE P. ROBERTS AND DONNA ROSE ADDIS	
Part IV Memory and Language		
13	Going the Extra Creative Mile: The Role of Semantic Distance in Creativity – Theory, Research, and Measurement	233
	YOED N. KENETT	
14	Episodic Memory and Cognitive Control: Contributions to Creative Idea Production	249
	ROGER E. BEATY AND DANIEL L. SCHACTER	
15	Free Association, Divergent Thinking, and Creativity: Cognitive and Neural Perspectives	261
	TALI R. MARRON AND MIRIAM FAUST	
16	Figurative Language Comprehension and Laterality in Autism Spectrum Disorder	281
	RONIT SABAN-BEZAEL AND NIRA MASHAL	
Part V Cognitive Control and Executive Functions		
17	The Costs and Benefits of Cognitive Control for Creativity	299
	EVANGELIA G. CHRYSIKOU	
18	Creativity and Cognitive Control in the Cognitive and Affective Domains	318
	ANDREAS FINK, CORINNA PERCHTOLD, AND CHRISTIAN ROMINGER	
19	Associative and Controlled Cognition in Divergent Thinking: Theoretical, Experimental, Neuroimaging Evidence, and New Directions	333
	EMMANUELLE VOLLE	
Part VI Reasoning and Intelligence		
20	Creativity in the Distance: The Neurocognition of Semantically Distant Relational Thinking and Reasoning	363
	ADAM GREEN	

	Contents	vii
21	Network Dynamics Theory of Human Intelligence AKI NIKOLAIDIS AND ARON K. BARBEY	382
22	Training to be Creative: The Interplay between Cognition, Skill Learning, and Motivation INDRE V. VISCONTAS	405
23	Intelligence and Creativity from the Neuroscience Perspective EMANUEL JAUK	421
Part VII Individual Differences		
24	The Genetics of Creativity: The Underdog of Behavior Genetics? DAVIDE PIFFER	437
25	Structural Studies of Creativity Measured by Divergent Thinking HIKARU TAKEUCHI AND RYUTA KAWASHIMA	451
26	Openness to Experience: Insights from Personality Neuroscience OSHIN VARTANIAN	464
27	Creativity and the Aging Brain KENNETH M. HEILMAN AND IRA S. FISCHLER	476
Part VIII Artistic and Aesthetic Processes		
28	The Neuroscience of Musical Creativity DAVID BASHWINER	495
29	Artistic and Aesthetic Production: Progress and Limitations MALINDA J. MCPHERSON AND CHARLES J. LIMB	517
30	Polymathy: The Resurrection of Renaissance Man and the Renaissance Brain CLAUDIA GARCIA-VEGA AND VINCENT WALSH	528
	<i>Index</i>	540
<i>The color plates are between pages 322 and 323</i>		