
Contents

Part I Introduction

- 1 The Evolution of Intelligence** 3
Sam Goldstein

Part II Background

- 2 Intelligence in Nonprimates** 11
Thomas R. Zentall
- 3 Intelligence in Nonhuman Primates** 27
Tara Mandalaywala, Christine Fleener, and Dario Maestriperi
- 4 The Evolution of Language** 47
Philip Lieberman
- 5 Evolution of the Human Brain: From Matter to Mind** 65
Michel A. Hofman
- 6 Intelligence as a Conceptual Construct:
The Philosophy of Plato and Pascal** 83
Dana Princiotta and Sam Goldstein
- 7 The Life and Evolution of Early Intelligence Theorists:
Darwin, Galton, and Charcot** 93
Jordan Rigby
- 8 Social Competition and the Evolution
of Fluid Intelligence** 105
David C. Geary

Part III Theories of Intelligence

- 9 Intelligence Defined: Wundt, James, Cattell, Thorndike,
Goddard, and Yerkes** 123
John D. Greenwood
- 10 Piaget's Theory of Intelligence** 137
Ulrich Müller, Kayla Ten Eycke, and Lesley Baker

11 Alfred Binet and the Children of Paris	153
Amber Esping and Jonathan A. Plucker	
12 From Psychometric Testing to Clinical Assessment: Personalities, Ideas, and Events That Shaped David Wechsler's Views of Intelligence and Its Assessment	163
Mark Benisz, Ron Dumont, and John O. Willis	
13 A.R. Luria and Intelligence Defined as a Neuropsychological Construct	181
Dana Princiotta and Sam Goldstein	
14 Intelligence: Defined as Neurocognitive Processing.....	193
Tulio M. Otero	
15 CHC Theory of Intelligence	209
Samuel O. Ortiz	
16 Multiple Intelligences in the New Age of Thinking.....	229
Robert J. Sternberg	
17 Emotional and Social Intelligence and Behavior	243
Richard E. Boyatzis, James Gaskin, and Hongguo Wei	
18 Intelligence as a Malleable Construct	263
Lisa S. Blackwell, Sylvia Rodriguez, and Belén Guerra-Carrillo	
19 Creativity and Intelligence	283
Jonathan A. Plucker, Amber Esping, James C. Kaufman, and Maria J. Avitia	

Part IV Assessment of Intelligence

20 Hundred Years of Intelligence Testing: Moving from Traditional IQ to Second-Generation Intelligence Tests	295
Jack A. Naglieri	
21 The Relationship Between Theories of Intelligence and Intelligence Tests.....	317
W. Joel Schneider and Dawn P. Flanagan	
22 Intelligence and Culture: History and Assessment.....	341
Donald H. Saklofske, Fons J.R. van de Vijver, Thomas Oakland, Elias Mpofo, and Lisa A. Suzuki	
23 Common and Variable Aspects of Intelligence.....	367
Arthur MacNeill Horton Jr. and Cecil R. Reynolds	
24 Current Concepts in the Assessment of Emotional Intelligence.....	381
Steven J. Stein and Justin M. Deonarine	

Part V Applications of Intellectual Theory

25 Intelligence and Success	405
Tarmo Strenze	
26 The Use of Intelligence Tests in the Diagnosis of Specific Reading Disability	415
Nancy Mather and Deborah Schneider	
27 Executive Functioning and Intelligence	435
Emily C. Duggan and Mauricio A. Garcia-Barrera	
28 The Evolution of Intelligence: Implications for Educational Programming and Policy	459
Christopher Jones, Peggy L. Tarpley, and Douglas Blancero	

Part VI Conclusion

29 The March of Reason: What Was Hidden in Our Genes	471
James R. Flynn	
30 Closing Comments: Intelligence and Intelligence Tests – Past, Present, and Future	487
Jack A. Naglieri and Sam Goldstein	
Index	491

Handbook of Intelligence

Evolutionary Theory, Historical Perspective, and Current
Concepts

Goldstein, S.; Princiotta, D.; Naglieri, J.A. (Eds.)

2015, XIX, 498 p. 41 illus., 8 illus. in color., Hardcover

ISBN: 978-1-4939-1561-3