## Contents

### Part I  Conceptualizations of Executive Functioning

1  **Introduction: A History of Executive Functioning as a Theoretical and Clinical Construct** ..........................................................  3  
   Sam Goldstein, Jack A. Naglieri, Dana Princiotta, and Tulio M. Otero

2  **The Physiology of Executive Functioning** .............................................  13  
   Hyun Jin Chung, Lisa L. Weyandt, and Anthony Swentosky

3  **The Frontal Lobes and Executive Functioning** ...............................  29  
   Tulio M. Otero and Lauren A. Barker

4  **The Development of Hot and Cool Executive Functions in Childhood and Adolescence: Are We Getting Warmer?** ......  45  
   Eric Peterson and Marilyn C. Welsh

### Part II  Practical Implications

5  **A Review of the Use of Executive Function Tasks in Externalizing and Internalizing Disorders** .........................................................  69  
   Lisa L. Weyandt, W. Grant Willis, Anthony Swentosky, Kimberly Wilson, Grace M. Janusis, Hyun Jin Chung, Kyle Turcotte, and Stephanie Marshall

6  **The Neuropsychology of Executive Functioning and the DSM-5** .............................................................................................................  89  

7  **Executive Functioning Theory and ADHD** ........................................  107  
   Kevin M. Antshel, Bridget O. Hier, and Russell A. Barkley

8  **Executive Functioning Theory and Autism** .................................  121  
   Hilde M. Geurts, Marieke de Vries, and Sanne F.W.M. van den Bergh

9  **Executive Functioning as a Mediator of Age-Related Cognitive Decline in Adults** .................................................................  143  
   Dana Princiotta, Melissa DeVries, and Sam Goldstein
Part III  Assessment of Executive Functioning

10 Assessment of Executive Function Using Rating Scales: Psychometric Considerations ....................................................... 159
   Jack A. Naglieri and Sam Goldstein

11 The Cambridge Neuropsychological Test Automated Battery in the Assessment of Executive Functioning ...................... 171
   Katherine V. Wild and Erica D. Musser

   Jack A. Naglieri and Tulio M. Otero

13 The Assessment of Executive Function Using the Delis-Kaplan Executive Functions System (D-KEFS) ............... 209
   Tammy L. Stephens

14 Using the Comprehensive Executive Function Inventory (CEFI) to Assess Executive Function: From Theory to Application ................................................................. 223
   Jack A. Naglieri and Sam Goldstein

15 The Assessment of Executive Functioning Using the Barkley Deficits in Executive Functioning Scales .................. 245
   Russell A. Barkley

16 Assessment with the Test of Verbal Conceptualization and Fluency (TVCF) ................................................................. 265

17 Examining Executive Functioning Using the Behavior Assessment System for Children (BASC) .......................... 283
   Mauricio A. Garcia-Barrera, Emily C. Duggan, Justin E. Karr, and Cecil R. Reynolds

18 Assessment of Executive Functioning Using the Behavior Rating Inventory of Executive Function (BRIEF) .......... 301
   Robert M. Roth, Peter K. Isquith, and Gerard A. Gioia

19 Assessment of Executive Functioning Using Tasks of Executive Control ................................................................. 333
   Peter K. Isquith, Robert M. Roth, and Gerard A. Gioia

20 The Assessment of Executive Functioning Using the Childhood Executive Functioning Inventory (CHEXI) ...... 359
   Lisa B. Thorell and Corinne Catale

21 The Assessment of Executive Functioning Using the Delis Rating of Executive Functions (D-REF) ............ 367
   Jessica A. Rueter
22 Cross-Battery Approach to the Assessment of Executive Functions ................................................................. 379
Dawn P. Flanagan, Vincent C. Alfonso, and Shauna G. Dixon

Part IV Interventions Related to Executive Functioning

23 Treatment Integrity in Interventions That Target the Executive Function ................................................................. 413
Andrew Livanis, Ayla Mertturk, Samantha Benvenuto, and Christy Ann Mulligan

24 Interventions to Promote Executive Development in Children and Adolescents ................................................................. 427
Peg Dawson and Richard Guare

25 Teaching Executive Functioning Processes: Promoting Metacognition, Strategy Use, and Effort .............................................. 445
Lynn Meltzer

26 Working Memory Training and Cogmed ................................................................. 475
Peter C. Entwistle and Charles Shinaver

27 Supporting and Strengthening Working Memory in the Classroom to Enhance Executive Functioning .............................................. 495
Milton J. Dehn

28 Building Executive Functioning in Children Through Problem Solving ................................................................. 509
Bonnie Aberson

29 Practical Strategies for Developing Executive Functioning Skills for ALL Learners in the Differentiated Classroom........ 523
Kathleen Kryza

About the Editors ........................................................................................................................................ 555

Index ............................................................................................................................................................. 557
Handbook of Executive Functioning
Goldstein, S.; Naglieri, J.A. (Eds.)
2014, XIX, 567 p. 43 illus., Hardcover
ISBN: 978-1-4614-8105-8