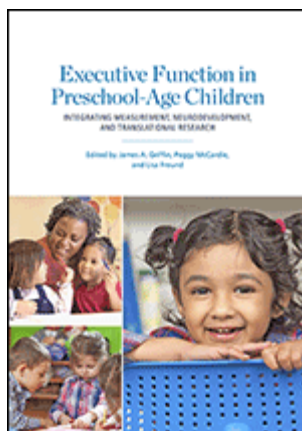


Executive Function in Preschool-Age Children: Integrating Measurement, Neurodevelopment, and Translational Research



List Price: \$79.95

Member/Affiliate Price: \$49.95

FREE Shipping

For individuals in the U.S. & U.S. territories

Edited by James A. Griffin, PhD, Peggy McCardle, PhD, MPH, and Lisa Freund, PhD

Pages: 352

Item #: 4318129

ISBN: 978-1-4338-1826-4

Publication Date: December 2015

Format: Hardcover

Availability: In Stock

Examine or adopt this book for teaching a course

Overview

A primary aim of the neuropsychological revolution has been the mapping of what has come to be known as executive function (EF). This term encompasses a range of mental processes such as working memory, inhibitory control, and cognitive flexibility that, together, regulate our social behavior, and our emotional and cognitive well-being.

In this book, top scientists from a variety of fields investigate executive function as it develops in early childhood.

Because researchers differ in their conceptualizations of basic processes and even in how they define EF itself, contributors begin by discussing comparability and replicability, key issues which are of primary importance to those seeking to move the field to a new level of rigor. Next, they tackle the nuts-and-bolts of the development of EF in preschoolers, including the neurobiological mechanisms and circuitry that underlie EF development as well as the role of EF in assessing risk — and its counterpart, resilience. Finally, they highlight exciting new clinical applications of EF research, including the use of EF in contextualizing and assessing family risk, the impact of socioeconomic status on neurological development, and the promotion of EF development through early education programs.

Table of Contents

Introduction to Executive Function in Preschool-Age Children

James A. Griffin, Lisa Freund, Peggy McCardle, Rebecca DelCarmen-Wiggins, and Abigail Haydon

I. Conceptualization and Measurement of Executive Function

1. Why Assessing and Improving Executive Functions Early in Life Is Critical

Adele Diamond

2. Incorporating Early Development Into the Measurement of Executive Function: The Need for a Continuum of Measures Across Development

Stephanie M. Carlson, Susan Faja, and Danielle M. Beck

3. Structure, Measurement, and Development of Preschool Executive Function

Jennifer Mize Nelson, Tiffany D. James, Nicolas Chevalier, Caron A. C. Clark, and Kimberly Andrews Espy

4. Longitudinal Measurement of Executive Function in Preschoolers

Michael T. Willoughby and Clancy B. Blair

5. Conceptions of Executive Function and Regulation: When and to What Degree Do They Overlap?

Nancy Eisenberg and Qing Zhou

II. Neurodevelopment and Executive Function

6. Infant Cognitive Abilities: Potential Building Blocks of Later Executive Functions

Susan A. Rose, Judith F. Feldman, and Jeffery J. Jankowski

7. Psychobiology of Executive Function in Early Development

Martha Ann Bell and Kimberly Cuevas

8. Imaging Executive Functions in Typically and Atypically Developed Children

Tzipi Horowitz-Kraus, Scott K. Holland, and Lisa Freund

9. Development of Selective Sustained Attention: The Role of Executive Functions

Anna Fisher and Heidi Kloos

III. Executive Function and Translational Research on Risk and Prevention

10. Preschool Executive Functions in the Context of Family Risk

Megan M. McClelland, Leslie D. Leve, and Katherine C. Pears

11. Socioeconomic Status and the Development of Executive Function: Behavioral and Neuroscience Approaches

Gwendolyn M. Lawson, Cayce J. Hook, Daniel A. Hackman, and Martha J. Farah

12. Assessing Developmental Trajectories of Executive Function in Low-Income, Ethnic Minority Preschoolers: Opportunities and Challenges

Margaret O'Brien Caughy, Margaret Tresch Owen, and Jamie Hurst DeLuna

13. Promoting the Development of Executive Functions Through Early Education and Prevention Programs

Karen L. Bierman and Marcela Torres

14. Conceptual Clutter and Measurement Mayhem: Proposals for Cross-Disciplinary Integration in Conceptualizing and Measuring Executive Function

Frederick J. Morrison and Jennie K. Grammer

Index

About the Editors

Find this article at:

<http://www.apa.org/pubs/books/4318129.aspx?tab=2>