



Developmental Cognitive Neuroscience

By Mark H. Johnson

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The third edition of *Developmental Cognitive Neuroscience* presents a thorough updating and enhancement of the classic text that introduced the rapidly expanding field of developmental cognitive neuroscience.

- Includes the addition of two new chapters that provide further introductory material on new methodologies and the application of genetic methods in cognitive development
- Includes several key discussion points at the end of each chapter
- Features a greater focus on mid-childhood and adolescence, to complement the previous edition's emphasis on early childhood
- Brings the science closer to real-world applications via a greater focus on fieldwork
- Includes a greater emphasis on structural and functional brain imaging

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Editorial Review

Review

"There is a real lack of texts in the area of developmental cognitive neuroscience and Mark Johnson's book thus fills an important gap. It takes a decidedly neurocomputational perspective and provides a wonderful synthesis of fundamental issues and an overview of the state of empirical knowledge in this emerging field. It is definitely a clarion call for a new way of doing both developmental psychology and cognitive neuroscience." – **Professor Bruce Pennington, University of Denver**

"A major topic of this generation of research is to understand the interaction between environment and genetics every level from molecules to the behaviour of organisms. Johnson effectively argues that at the intermediate level of analysis present in cognitive neuroscience we will be able to illuminate this interaction during the course of development. This volume reviews evidence and organizes it in a way that allows one to see how behavioural and physiological experiments with humans and other organisms can help answer very general psychobiological issues. By illuminating basic issues of development this book is as important for students and researchers at the adult level as it is for students of infancy and childhood." – **Professor Mike Posner, University of Oregon**

Review

'Developmental Cognitive Neuroscience has become the best advanced undergraduate textbook that lays out the agenda and approach to this rapidly expanding field. In this updated third edition, I particularly like the emphasis on reconciling brain-based research with pure behavioural approaches and why students must appreciate the contribution of neuroscience to building better models of cognitive development.'

— **Professor Bruce Hood, University of Bristol, UK**

'The way in which genes and environment shape brain networks underlying human behavior is now among the most active issues in science. This new edition of *Developmental Cognitive Neuroscience* provides a comprehensive approach to theory, data and application to this issue and others within the perspectives of Cognitive and Social Neuroscience.'

—**Michael I. Posner, Professor Emeritus, University of Oregon, US**

'This book, which launched the field of developmental cognitive neuroscience 13 years ago, shows no sign of aging. This up-to-date and newly revised volume eloquently captures the key domains of the discipline and will prove essential reading to both students and established scientists alike. Well-written and well-researched, this revised edition will serve as both a resource and inspiration for anyone interested in the intersection of brain and cognitive development.'

—**Professor Charles A. Nelson III, Harvard University Medical School and Children's Hospital Boston, US**

From the Back Cover

The publication of the third edition of *Developmental Cognitive Neuroscience* is a testament to the dramatic expansion of the field in recent years. While continuing to serve as the definitive introduction to the subject, this new edition is thoroughly updated and enhanced to reflect the latest advances in our understanding of brain-behavior relationships and development. Two all-new background foundational chapters are included. One provides an overview of populations and developmental disorders and introduces established and new methodologies critical for advancements in the field. The second new chapter focuses on recent advances in

the integration of molecular and population genetics with studies of brain development and function.

Further enhancements include a greater emphasis on such topics as mid-childhood and adolescence, practical applications of basic research, and the emergence of functional networks of various regions of the brain. New discussions on recent technological breakthroughs are also included, as well as material on the increasing relevance of genetics to developmental psychology and neuroscience.

The third edition of *Developmental Cognitive Neuroscience* is certain to solidify the reputation of the landmark text that was instrumental in the creation of a field of study that is making great strides in addressing fundamental questions of human development.

Users Review

From reader reviews:

Brian Alexander:

Do you have favorite book? Should you have, what is your favorite's book? Guide is very important thing for us to understand everything in the world. Each guide has different aim as well as goal; it means that guide has different type. Some people feel enjoy to spend their time to read a book. These are reading whatever they take because their hobby is reading a book. How about the person who don't like examining a book? Sometime, man feel need book once they found difficult problem or even exercise. Well, probably you will want this Developmental Cognitive Neuroscience.

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