

## Fetal Development A Psychobiological Perspective

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Based on the presentations given by well-known specialists at a recent multidisciplinary conference of developmental psychobiologists, obstetricians, and physiologists, this book is the first exhaustive attempt to synthesize the present scientific knowledge on fetal behavior. Utilizing a psychobiological analytic approach, it provides the reader with an overview of the perspectives, hypotheses, and experimental results from a group of basic scientists and clinicians who conduct research to ...

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xii, 512 p. : ill. ; 24cm. ISBN. 080581485X (alk. paper)

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Development of Perception: Psychobiological Perspectives, Volume 1, Audition, Somatic Perception, and the Chemical Senses, is the first of a two-part series covering vision, audition, olfaction, taste, tactile sensitivity, and sensory-motor activity during ontogenesis.

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The fetus is more active with increased muscle development. "Quickening" usually occurs (the mother can feel the fetus moving). The fetal heartbeat can be heard with a stethoscope. Week 24 (22nd week of development) The fetus reaches a length of 28 cm (11.2 inches). The fetus weighs about 725 g (1 lb 10 oz). Eyebrows and eyelashes are well formed.

Based on the presentations given by well-known specialists at a recent multidisciplinary conference of developmental psychobiologists, obstetricians, and physiologists, this book is the first exhaustive attempt to synthesize the present scientific knowledge on fetal behavior. Utilizing a psychobiological analytic approach, it provides the reader with an overview of the perspectives, hypotheses, and experimental results from a group of basic scientists and clinicians who conduct research to elucidate the role of fetal behavior in development. Experimental and clinical as well as human and animal data are explored via comparative developmental analysis. The ontogeny of fetal spontaneous activity -- via the maturation of "behavioral states" -- and of fetal responsiveness to sensory stimulation is studied in detail. Results are provided from studies of embryonic/fetal and newborn behavior in chicks, rats, sheep, primates, and humans. Knowledge of fetal behavior is crucial to the obstetrician, neonatologist, developmental psychologist, and even the future parents, in order to follow and assess the gradual development of spontaneous responsive movements of the fetus. While assessing this important information, this text also examines the neuro-behavioral events taking place during the fetal period as an aid to understanding normal and pathological life span development.

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This book provides an overview of fetal psychobiological research, focusing on brain and behavior, genetic and epigenetic factors affecting both short and long-term development, and technological breakthroughs in the field. These focal points intersect throughout the chapters, as in the challenges of evaluating the fetal central nervous system, the myriad impacts of maternal stressors and resiliencies, and the salience of animal studies. It also discusses specific monitoring and assessment methods, including cardiotocography, biomagnetometry, 4D ultrasound, in utero MRI, and the KANET test. Spanning assessment, identification, and pre- and postnatal intervention, the book

weighs the merits of standardized evaluations and argues for more integrative research in the future. Included in the coverage: Effects on the fetus of maternal anxiety, depression, and stress during pregnancy. Clinical and experimental research in human fetuses and animal models. Observational research including the use of behaviors in developing tests to assess fetal health. Fetal auditory processing and implications for language development. Fetal effects of prenatal exposure to selective SRI antidepressant exposure. Structural and functional imaging of the prenatal brain. The effects of alcohol exposure on fetal development. Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies is an essential resource for researchers, clinicians and related professionals, as well as students in a wide range of fields such as developmental psychology, pediatric and obstetrical medicine, neuroscience, nursing, social work, and early childhood education.

"This book explores the development of ideas in psychology's past. It is the initial volume in a series intended to shape such ideas into a valuable resource for the discipline's future. Scientists, in general, are known to ignore their own history, considering it to be a graveyard of failures. In *Thinking in Psychological Science*, selected ideas of key figures in the cognitive, comparative, and developmental sides of psychology Karl Duncker, Karl Bihler, Tamara Dembo, Zing-Young Kuo, C. Lloyd Morgan, Alexander Chamberlain, and Arnold Gesell are traced, and the social contexts of their ideas are given a collective analysis, focusing on the potential of these ideas for the present state of psychology. Representing the scientist as ""hero"" has become a necessary component when applying for research monies from governmentally controlled funding agencies. Yet the reality is just the opposite: Science is not just the product of ""heroes""; it is the product of many individuals who often search for solutions to basic problems throughout their lifetimes while only a few arrive at breakthroughs. Still, familiarity with the flow of thought in the efforts to solve the basic problems of humankind is necessary for any understanding of creativity. This book analyzes the processes involved in the search for solutions to major theoretical problems of development (Kuo, Gesell), action and cognition (Bihler, Bunker, Dembo), and methodology (Morgan). Ultimately, this is an exciting volume that reveals real science in the making. *Thinking in Psychological Science* will be of interest to students of the social sciences and intellectual history. It is ideal for graduate and upper-level undergraduate courses in psychology, the sociology of science, and cognitive science."

In this first compendium in the growing literature of behavioral teratology, readers will discover an easy-to-access, concise presentation that covers a huge range of subjects. The book synthesizes important findings that help explain why prenatal events may result in abnormal behavior and learning disabilities later in life. It goes further to examine the role of prenatal perturbations in conditions as varied as dyslexia, schizophrenia, fetal alcohol syndrome, and autism.

First Published in 2003. Routledge is an imprint of Taylor & Francis, an informa company.

The multidisciplinary field of developmental psychobiology has uncovered new findings in behavioral progressions that have led to exciting avenues for therapeutic intervention. *Developmental Psychobiology* examines typical and atypical behavioral and neural development, reflecting a broad sampling of this multidisciplinary field in its five densely informative chapters. Here, ten contributors discuss early attachment, face processing, reading disability, Tourette's syndrome, and schizophrenia as a disorder of neurodevelopment -- emphasizing three fundamental topics that are especially relevant to biological and child psychiatry: Learning and development and the methods for studying them -- Understanding normal progressions as a dynamic behavioral and neural process will have a significant impact in determining the biological substrates of clinical disorders and how we can target effective treatments and interventions for behaviors such as the waxing and waning of symptoms in Tourette's syndrome and OCD, eye contact and gaze in autism, word reading in dyslexia, and working memory in schizophrenia. The establishment of typical and atypical developmental progressions in systems -- Both plasticity and stability are critical in the normal development of behavioral and neural systems. For example, certain behaviors are appropriate at one age but inappropriate at other ages, whereas some clinical disorders may not diminish or change with age and may be viewed instead as developmental delays or deficiencies. The impact of methodological advances on imaging and genetics in understanding typical and atypical behavioral and neural development -- How have developments in noninvasive tools for looking into the developing, behaving human brain -- imaging, computational modeling and genetic techniques -- helped us to inform or constrain our understanding of typical and atypical development? Until now, biological psychiatry has been based on psychopharmacological work, but now, with imaging and genetic techniques, we can further characterize the biological mechanisms underlying a disorder. With chapters that elucidate the newest research in the field, *Developmental Psychobiology* provides clinicians an abundance of insight that can provide practical help to patients and a richer understanding of the underpinnings of cognitive and emotional disorders.

Fetal alcohol spectrum disorders (FASDs) have emerged as a major phenomenon within the education, health, criminal justice and social care systems of many countries, with current prevalence figures suggesting that one in a hundred children and young people have FASDs. In this publication, academics, professionals and families from around the world have shared expertise and insights on FASDs. Their combined interdisciplinary perspective makes an invaluable contribution to how we understand and address the complex social, educational and health needs associated with this growing group of children and young people. Articulating fundamental knowledge, cutting edge initiatives and emerging trends in FASDs, this book provides an evidence base that will enable services to identify and respond to the need for action on FASDs. It recognises that families -- natural, foster or adoptive -- are at the heart of this process, and that their rich knowledge base, grounded in their lived experience, is crucial. Any education, social care, criminal justice or health professional working with children and young people with FASDs and their families will find this book a seminal and authoritative resource.

We perceive and understand our environment using many sensory systems-vision, touch, hearing, taste, smell, and proprioception. These multiple sensory modalities give us complementary sources of information about the environment. This book explores how we develop the ability to integrate our senses.

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