

# Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies

From Springer

Download now

Read Online ➔

## Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer

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.

 [Download Fetal Development: Research on Brain and Behavior, ...pdf](#)

 [Read Online Fetal Development: Research on Brain and Behavior ...pdf](#)

# Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies

*From Springer*

## **Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer**

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.

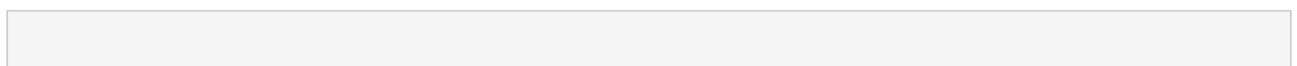
Included in the coverage:

- 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.

## **Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer Bibliography**

- Sales Rank: #3175943 in Books
- Published on: 2016-03-15
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.13" w x 7.00" l, .0 pounds
- Binding: Hardcover
- 492 pages



 [\*\*Download\*\* Fetal Development: Research on Brain and Behavior, ...pdf](#)

 [\*\*Read Online\*\* Fetal Development: Research on Brain and Behavior ...pdf](#)

## **Editorial Review**

### Review

“This book describes fetal psychobiological research, with an emphasis on genetic and epigenetic factors, along with brain and behavior. ... This excellent book covers a wide variety of topics related to fetal development. Researchers and clinicians alike will benefit.” (Gary B. Kaniuk, Doody's Book Reviews, June, 2016)

### From the Back Cover

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.

### About the Author

**Nadja Reissland, D. PHIL (OXON), MA, BSc.**, is a Developmental Psychologist, Associate Professor in the Department of Psychology and Deputy Head of the Science Faculty Durham University UK. Her work is at the forefront of the growing field of fetal psychology and is especially focused on fetal development in relation to maternal stress and depression, as well as early mother- infant interaction. Her pioneering research on fetal movements, specifically fetal facial movements, has potential applications for obstetricians helping to identify indicators of healthy development in utero. Her research program includes the effects of maternal mental health (stress and depression) as well as health behaviours (smoking) on fetal behaviour. Furthermore she evaluates behaviours including laterality, vision and precursors to language as evidence of the

development of CNS function.

**Barbara S. Kisilevsky, BN, MN, MA, Ph.D.,** is Professor Emerita, Queen's University, Kingston, ON Canada. With academic appointments in Nursing, Psychology, and Obstetrics & Gynaecology, she established an internationally recognized multidisciplinary research program in the area of sensory development in the perinatal period with collaborations in the USA, Europe and Asia. In over 30 years of examining behavior (e.g., cardiac, body movements) from a psychobiological perspective, she and colleagues have characterized auditory (e.g., white noise, music, mother's voice) and vibroacoustic sensitivity in fetuses in uneventful pregnancies; identified differential behaviors in fetuses in pregnancies complicated by conditions associated with placental insufficiency; determined sensory interventions to reduce behavioral and physiological responses of premature infants to 'pain' stimuli; described mother-infant interactions cross-culturally; and, demonstrated a relationship between fetal voice/speech processing, newborn information processing, and infant language ability. Her laboratory has served as a training facility for international visiting scientists, PhD, MSc, and MA theses, and numerous undergraduate summer students.

## **Users Review**

### **From reader reviews:**

#### **Marie Flynt:**

Reading a publication tends to be new life style on this era globalization. With reading through you can get a lot of information that can give you benefit in your life. Using book everyone in this world could share their idea. Ebooks can also inspire a lot of people. Plenty of author can inspire their reader with their story as well as their experience. Not only the story that share in the publications. But also they write about advantage about something that you need example. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book that exist now. The authors in this world always try to improve their proficiency in writing, they also doing some research before they write to the book. One of them is this Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies.

#### **James Kline:**

Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies can be one of your nice books that are good idea. Most of us recommend that straight away because this e-book has good vocabulary which could increase your knowledge in terminology, easy to understand, bit entertaining but nonetheless delivering the information. The article author giving his/her effort to place every word into pleasure arrangement in writing Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies although doesn't forget the main point, giving the reader the hottest and also based confirm resource facts that maybe you can be certainly one of it. This great information can easily drawn you into fresh stage of crucial thinking.

#### **Margaret Velasquez:**

On this era which is the greater individual or who has ability to do something more are more treasured than other. Do you want to become one of it? It is just simple method to have that. What you are related is just

spending your time almost no but quite enough to experience a look at some books. Among the books in the top checklist in your reading list will be Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies. This book which is qualified as The Hungry Slopes can get you closer in turning into precious person. By looking upwards and review this book you can get many advantages.

**Denise Adams:**

That book can make you to feel relax. This specific book Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies was colorful and of course has pictures on the website. As we know that book Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies has many kinds or variety. Start from kids until adolescents. For example Naruto or Private eye Conan you can read and believe that you are the character on there. Therefore , not at all of book usually are make you bored, any it offers you feel happy, fun and relax. Try to choose the best book in your case and try to like reading that.

**Download and Read Online Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer #K0Y45OIBGPZ**

# **Read Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer for online ebook**

Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer books to read online.

## **Online Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer ebook PDF download**

**Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer Doc**

**Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer Mobipocket**

**Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer EPub**

**K0Y45OIBGPZ: Fetal Development: Research on Brain and Behavior, Environmental Influences, and Emerging Technologies From Springer**