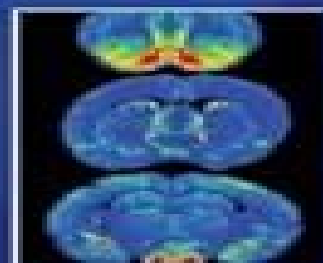


NEUROBIOLOGY OF THE PARENTAL BRAIN



EDITED BY
ROBERT S. BRIDGES



Neurobiology Of The Parental Brain

Michael Numan



Neurobiology Of The Parental Brain:

Neurobiology of the Parental Brain Robert Bridges, 2010-07-28 This book presents cutting edge research on the basic neurobiology of parental behavior as it relates to behavioral disorders including postpartum depression anxiety and inadequate parental bonding to infants Internationally recognized basic and clinical researchers present new research findings in humans and animals that elucidate the roles of the brain physiological state genes and environment in maternal and paternal care By bridging the gap between basic and clinical research new understandings of how the biology of the brain and the reproductive state of the parent impact their mental health and the successful rearing of young emerge Presents the neural network of motherhood based on fundamental and functional MRI studies of parental care from rodents to humans Discusses the role of gene environment interactions in parenting Offers parenting strategies and priorities in raising young Discusses maternal defense the neurobiology of maternal protection Examines the significance and underlying causes of postpartum depression Discusses parenting and anxiety neurobiological basis for reductions during the postpartum period Also includes the neurobiology of fatherhood a fresh evolutionary and biological perspective on paternal behavior Presents information on maternal neuroplasticity how reproductive history changes the maternal brain Translates research internationally renowned researchers insights into common factors that regulate mammalian parenting **The**

Neurobiology of Parental Behavior Michael Numan, Thomas R. Insel, 2006-05-17 In addition to filling a need within the field of parental behavior this book contributes importantly to the growing area of emotional and motivational neuroscience A major part of neuroscience research at the whole organism level has been focused on cognitive neuroscience with an emphasis on the neurobiology of learning and memory but there has been a recent upsurge in research which is attempting to define the neural basis of basic motivational and emotional systems which regulate such behaviors as food intake aggression reproduction reward seeking behaviors and anxiety related behaviors In this book the emphasis is on the research findings obtained from rodents sheep and primates The authors goal of course was to provide a foundation that may help us understand the neurobiology of human parental behavior Indeed the last chapter attempts to integrate the non human research data with some human data in order to make some inroads toward an understanding of postpartum depression child abuse and child neglect Clearly motivational and emotional neuroscience has close ties to psychiatry and this connection will be very evident in the final chapter By understanding the neurobiology of parental behavior we are also delving into neurobiological factors which may have an impact on core human characteristics involved in sociality social attachment nurturing behavior and love In this very violent world it is hard to conceive of a group of characteristics that are more worthy of study **The Parental Brain** Michael Numan, 2020-05-01 The Parental Brain Mechanisms Development and Evolution presents a comprehensive analysis of how the brain regulates parental behavior in nonhuman animals and in humans how these brain mechanisms develop and how such development can go awry leading to faulty parental behavior Further the

proposal is examined that the maternal brain served as a foundation or template for the evolution of other types of strong prosocial bonds in mammals such as the hyper prosociality that occurs in humans Unique aspects of this book are its multilevel perspective and the integration and comparison of animal and human research in order to create a complete understanding of the parental brain Topics covered include the following Maternal paternal and alloparental behavior Hormonal regulation of parental behavior Oxytocin and parental behavior Subcortical neural circuits regulating parental behavior in nonhuman mammals The interactions between cortical and subcortical neural circuits that are associated with parental cognitions emotions and behavior in humans How maternal care directed toward one s infants influences the development of the parental brain in the affected infants The intergenerational transmission or continuity of normal and abnormal maternal behavior The involvement of epigenetics and gene by environment interactions in the development of the parental brain Evolutionary perspectives on the parental brain particularly with respect to alloparenting and cooperative breeding that have provided a framework for appreciating how the parental brain could have provided a foundation for the hyper prosociality that occurs within human social groups This book will be a valuable resource for behavioral neuroscientists and neuroendocrinologists social neuroscientists developmental psychobiologists and psychologists anthropologists and evolutionary psychologists with an interest in parental behavior mother infant relationships child development and the evolution of prosocial behavior *The Parental Brain* Michael Numan,2020-05-01 The Parental Brain Mechanisms Development and Evolution explores the neural circuits and development of the parental brain and the view that these circuits formed a template for the evolution of other types of prosocial bonds The book is unique in its multilevel approach and integration of animal and human research *Brain-Based Parenting* Daniel A. Hughes,Jonathan Baylin,2012-04-23 An attachment specialist and a clinical psychologist with neurobiology expertise team up to explore the brain science behind parenting In this groundbreaking exploration of the brain mechanisms behind healthy caregiving attachment specialist Daniel A Hughes and veteran clinical psychologist Jonathan Baylin guide readers through the intricate web of neuronal processes hormones and chemicals that drive and sometimes thwart our caregiving impulses uncovering the mysteries of the parental brain The biggest challenge to parents Hughes and Baylin explain is learning how to regulate emotions that arise feeling them deeply and honestly while staying grounded and aware enough to preserve the parent child relationship Stress which can lead to blocked or dysfunctional care can impede our brain s inherent caregiving processes and negatively impact our ability to do this While the parent child relationship can generate deep empathy and the intense motivation to care for our children it can also trigger self defensive feelings rooted in our early attachment relationships and give rise to unparental impulses Learning to be a good parent is contingent upon learning how to manage this stress understand its brain based cues and respond in a way that will set the brain back on track To this end Hughes and Baylin define five major systems of caregiving as they re linked to the brain explaining how they operate when parenting is strong

and what happens when good parenting is compromised or blocked With this awareness we learn how to approach kids with renewed playfulness acceptance curiosity and empathy re regulate our caregiving systems foster deeper social engagement and facilitate our children s development Infused with clinical insight illuminating case examples and helpful illustrations Brain Based Parenting brings the science of caregiving to light for the first time Far from just managing our children s behavior we can develop our parenting brains and with a better understanding of the neurobiological roots of our feelings and our own attachment histories we can transform a fraught parent child relationship into an open regulated and loving one

The Parental Brain A. J. Douglas, 2012 Both parents and offspring are susceptible to adverse environmental conditions that alter their normal brain development and adaptations during reproduction increasing their risk of mental problems in the short and long term Pregnancy stress and anxiety alter the cognitive performance memory and behavior of mothers Resulting in suboptimal maternal hormonal signals and inadequate care they impact directly and indirectly on the developing baby in utero and in the neonatal stage This special issue of Neuroendocrinology is a collection of timely review articles from experts in the field of Mental Health Programming presented at the Parental Brain Conference in Edinburgh in September 2010 A range of mental health topics ranging from the neonatal to the juvenile and to the parental brain are discussed in detail The insight provided here from in depth research into brain mechanisms underlying altered mental health marks the recent realization that mental health is susceptible to adverse programming from an early age and that real harm can be passed on inadvertently from generation to generation Therefore The Parental Brain offers valuable reading for scientists and clinicians interested in the impact of environmental conditions on mental health and how parental health contributes to long term mental health in offspring

Mother Brain Chelsea Conaboy, 2022-09-15 Before Chelsea Conaboy gave birth to her first child she anticipated the joy of holding her newborn son the endless dirty nappies and the sleepless nights What she didn t expect was how different she would feel It wasn t simply the extraordinary demands of this new role but a shift in self as deep as it was disorienting In truth something was changing her brain New parents undergo major brain changes driven by hormones and the deluge of stimuli a baby provides These neurobiological changes help all parents birthing or otherwise adapt in those intense first days and prepare for a long period of learning how to meet their child s needs Yet this science is mostly absent from the public conversation about parenthood Conaboy delves into the neuroscience to reveal unexpected upsides generations of scientific neglect and a powerful new narrative of parenthood

Gender and Parenthood W. Bradford Wilcox, Kathleen Kovner Kline, 2013-02-12 The essays in this collection deploy biological and social scientific perspectives to evaluate the transformative experience of parenthood for today s women and men They map the similar and distinct roles mothers and fathers play in their children s lives and measure the effect of gendered parenting on child well being work and family arrangements and the quality of couples relationships Contributors describe what happens to brains and bodies when women become mothers and men become fathers whether the stakes are the same or different for each sex

why across history and cultures women are typically more involved in childcare than men why some fathers are strongly present in their children's lives while others are not and how the various commitments men and women make to parenting shape their approaches to paid work and romantic relationships Considering recent changes in men's and women's familial duties the growing number of single parent families and the impassioned tenor of same sex marriage debates this book adds sound scientific and theoretical insight to these issues constituting a standout resource for those interested in the causes and consequences of contemporary gendered parenthood

Contexts for Young Child Flourishing Darcia Narváez, 2016

Contexts for Young Child Flourishing uses an evolutionary systems framing to address the conditions and contexts for child development and thriving Contributors focus on flourishing optimizing individual physiological psychological emotional and communal social community functioning

Handbook of Parenting Marc H. Bornstein, 2019-03-08

This highly anticipated third edition of the Handbook of Parenting brings together an array of field leading experts who have worked in different ways toward understanding the many diverse aspects of parenting Contributors to the Handbook look to the most recent research and thinking to shed light on topics every parent professional and policymaker wonders about Parenting is a perennially hot topic After all everyone who has ever lived has been parented and the vast majority of people become parents themselves No wonder bookstores house shelves of how to parenting books and magazine racks in pharmacies and airports overflow with periodicals that feature parenting advice However almost none of these is evidence based The Handbook of Parenting is Period Each chapter has been written to be read and absorbed in a single sitting and includes historical considerations of the topic a discussion of central issues and theory a review of classical and modern research and forecasts of future directions of theory and research Together the five volumes in the Handbook cover Children and Parenting the Biology and Ecology of Parenting Being and Becoming a Parent Social Conditions and Applied Parenting and the Practice of Parenting

Volume 2 Biology and Ecology of Parenting relates parenting to its biological roots and sets parenting in its ecological framework Some aspects of parenting are influenced by the organic makeup of human beings and the chapters in Part I on the Biology of Parenting examine the evolution of parenting the psychobiological determinants of parenting in nonhumans and primate parenting as well as the genetic prenatal neuroendocrinological and neurobiological bases of human parenting A deep understanding of what it means to parent also depends on the ecologies in which parenting takes place Beyond the nuclear family parents are embedded in influence and are themselves affected by larger social systems The chapters in Part II on the Ecology of Parenting examine the ancient and modern histories of parenting as well as epidemiology neighborhoods educational attainment socioeconomic status culture and environment to provide an overarching relational developmental contextual systems perspective on parenting

Towards a neuroscience of social interaction Ulrich Pfeiffer, Bert Timmermans, Kai Vogeley, Chris Frith, Leonhard Schilbach, The burgeoning field of social neuroscience has begun to illuminate the complex biological bases of human social cognitive abilities However in spite of

being based on the premise of investigating the neural bases of interacting minds the majority of studies have focused on studying brains in isolation using paradigms that investigate offline social cognition i.e. social cognition from a detached observer's point of view asking study participants to read out the mental states of others without being engaged in interaction with them. Consequently the neural correlates of real time social interaction have remained elusive and may paradoxically represent the dark matter of social neuroscience. More recently a growing number of researchers have begun to study online social cognition i.e. social cognition from a participant's point of view based on the assumption that there is something fundamentally different when we are actively engaged with others in real time social interaction as compared to when we merely observe them. Whereas for offline social cognition interaction and feedback are merely a way of gathering data about the other person that feeds into processing algorithms inside the agent it has been proposed that in online social cognition the knowledge of the other at least in part resides in the interaction dynamics between the agents. Furthermore being a participant in an ongoing interaction may entail a commitment toward being responsive created by important differences in the motivational foundations of online and offline social cognition. In order to promote the development of the neuroscientific investigation of online social cognition this Frontiers Research Topic aims at bringing together contributions from researchers in social neuroscience and related fields whose work involves the study of at least two individuals and sometimes two brains rather than single individuals and brains responding to a social context. Specifically this Research Topic will adopt an interdisciplinary perspective on what it is that separates online from offline social cognition and the putative differences in the recruitment of underlying processes and mechanisms. Here an important focal point will be to address the various roles of social interaction in contributing to and at times constituting our awareness of other minds. For this Research Topic we therefore solicit reviews, original research articles, opinion and method papers which address the investigation of social interaction and go beyond traditional concepts and ways of experimentation in doing so. While focusing on work in the neurosciences this Research Topic also welcomes contributions in the form of behavioral studies, psychophysiological investigations, methodological innovations, computational approaches, developmental and patient studies. By focusing on cutting edge research in social neuroscience and related fields this Frontiers Research Topic will create new insights concerning the neurobiology of social interaction and holds the promise of helping social neuroscience to really go social.

Neurobiology of Social Behavior Michael Numan, 2014-07-17 Social neuroscience is a rapidly growing interdisciplinary field which is devoted to understanding how social behavior is regulated by the brain and how such behaviors in turn influence brain and biology. Existing volumes either fail to take a neurobiological approach or focus on one particular type of behavior so the field is ripe for a comprehensive reference which draws cross behavioral conclusions. This authored work will serve as the market's most comprehensive reference on the neurobiology of social behavior. The volume will offer an introduction to neural systems and genetics, epigenetics followed by detailed study of a wide range of behaviors.

aggression sex and sexual differentiation mating parenting social attachments monogamy empathy cooperation and altruism Research findings on the neural basis of social behavior will be integrated across different levels of analysis from molecular neurobiology to neural systems behavioral neuroscience to fMRI imaging data on human social behavior Chapters will cover research on both normal and abnormal behaviors as well as developmental aspects 2016 PROSE Category winner Honorable Mention for Biomedicine and Neuroscience Presents neurobiological analysis of the full spectrum of social behaviors while other volumes focus on one particular behavior Integrates and discusses research from different levels of analysis including molecular genetic neural circuits and systems and fMRI imaging research Covers both normal and abnormal behaviors Covers aggression sex and sexual differentiation mating parenting social attachments empathy cooperation and altruism

Parenting in the Context of Opioid Use: Mechanisms, Prevention Solutions, and Policy Implications Leslie D. Leve, Philip Andrew Fisher, Kristen Mackiewicz Seghete, Emily E. Tanner-Smith, Amanda M. Griffin, Carly Champagne, Elisabeth Conradt, 2022-10-25 **Mother Brain** Chelsea Conaboy, 2022-09-13 Health and science journalist Chelsea Conaboy explodes the concept of maternal instinct and tells a new story about what it means to become a parent Conaboy expected things to change with the birth of her child What she didn't expect was how different she would feel But she would soon discover what was behind this her changing brain Though Conaboy was prepared for the endless dirty diapers the sleepless nights and the joy of holding her newborn she did not anticipate this shift in self as deep as it was disorienting *Mother Brain* is a groundbreaking exploration of the parental brain that untangles insidious myths from complicated realities New parents undergo major structural and functional brain changes driven by hormones and the deluge of stimuli a baby provides These neurobiological changes help all parents birthing or otherwise adapt in those intense first days and prepare for a long period of learning how to meet their child's needs Pregnancy produces such significant changes in brain anatomy that researchers can easily sort those who have had one from those who haven't And all highly involved parents no matter their path to parenthood develop similar caregiving circuitry Yet this emerging science which provides key insights into the wide ranging experience of parenthood from its larger role in shaping human nature to the intensity of our individual emotions is mostly absent from the public conversation about parenthood The story that exists in the science today is far more meaningful than the idea that mothers spring into being by instinct Weaving the latest neuroscience and social psychology together with new reporting Conaboy reveals unexpected upsides generations of scientific neglect and a powerful new narrative of parenthood *Hormones, Brain and Behavior Online*, 2002-06-18 *Hormones Brain and Behavior* Second Edition is a comprehensive work discussing the effect of hormones on the brain and subsequently behavior This major reference work has 109 chapters covering a broad range of topics with an extensive discussion of the effects of hormones on insects fish amphibians birds rodents and humans To truly understand all aspects of our behavior we must take every influence including the hormonal influences into consideration Donald Pfaff and a number of well qualified editors examine

and discuss how we are influenced by hormonal factors offering insight and information on the lives of a variety of species

Hormones Brain and Behavior offers the reader comprehensive coverage of growing field of research with a state of the art overview of hormonally mediated behaviors This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics The topics cover an unusual breadth from molecules to ecophysiology ranging from basic science to clinical research making this reference of interest to a broad range of scientists in a variety of fields Available online exclusively via ScienceDirect A limited edition print version is also available Comprehensive coverage of a growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth ranging from molecules to ecophysiology and from basic science to clinical research

Reproductive Neuroendocrinology and Social Behavior Ishwar S. Parhar, Tomoko Soga, Sonoko Ogawa, 2016-10-12 Anti social behaviors and social deficits induced mental disorders are critical problems in our society today Social behaviors and interactions are shaped by experience hereditary components genes hormones and neuropeptides and environmental factors photoperiods and metabolic signals In addition to the classical gonadotropin releasing hormone RFamide peptides kisspeptin and gonadotropin inhibiting hormone are emerging as important regulators of the reproductive axis These neuropeptides are evolutionarily conserved and are regulated by environmental factors In this Research Topic we advocate more recent advances in reproductive neuropeptides and sex steroids in the domains of social behavior including sexual and parental behavior aggression stress and anxiety Using multiple species model we also review how genes and the neuroendocrine system interact at the cell and organismic levels to contribute to social behavior in particular the epigenetic genomic changes caused by early life environment We provide comprehensive insights of distinct neural networks and how cellular and molecular events in the brain regulate social behavior from a comparative perspective

Hormones, Brain and Behavior, 2016-11-09 **Hormones Brain and Behavior** Third Edition offers a state of the art overview of hormonally mediated behaviors including an extensive discussion of the effects of hormones on insects fish amphibians birds rodents and humans Entries have been carefully designed to provide a valuable source of information for students and researchers in neuroendocrinology and those working in related areas such as biology psychology psychiatry and neurology This third edition has been substantially restructured to include both foundational information and recent developments in the field Continuing the emphasis on interdisciplinary research and practical applications the book includes articles aligned in five main subject sections with new chapters included on genetic and genomic techniques and clinical investigations This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics The topics cover an unusual breadth from molecules to ecophysiology ranging from basic science to clinical research making this reference of interest to a broad range of scientists in a variety of fields Comprehensive and

updated coverage of a rapidly growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth of topics and subject fields ranging from molecules to ecophysiology and from basic science to clinical research Ideal resource for interdisciplinary learning and understanding in the fields of hormones and behavior **Psychology for Midwives** Maureen Raynor, Carole England, 2010-04-16 This accessible evidence based book explores how important it is for midwives to understand the psychological aspects of care in order to create positive experiences for mothers and families The book provides simple explanations for why psychological care matters in midwifery practice and uses different theoretical perspectives of psychology to illustrate how it fundamentally contributes to good midwifery practice The book addresses many core concepts and principles of psychology including Mother midwife relationship Emotions during the childbearing continuum Perinatal mental illness Communications in midwifery practice The birth environment Stress and anxiety Providing support to families Attachment and bonding Reflective questions activities illustrations tables summary boxes and a glossary help readers navigate the book Psychology for Midwives is essential reading for all midwives students and allied health care professionals interested in the psychological dimensions of childbearing **Encyclopedia of Behavioral Neuroscience** , 2010-06-03 Behavioral Neuroscientists study the behavior of animals and humans and the neurobiological and physiological processes that control it Behavior is the ultimate function of the nervous system and the study of it is very multidisciplinary Disorders of behavior in humans touch millions of people s lives significantly and it is of paramount importance to understand pathological conditions such as addictions anxiety depression schizophrenia autism among others in order to be able to develop new treatment possibilities Encyclopedia of Behavioral Neuroscience is the first and only multi volume reference to comprehensively cover the foundation knowledge in the field This three volume work is edited by world renowned behavioral neuroscientists George F Koob The Scripps Research Institute Michel Le Moal Universit Bordeaux and Richard F Thompson University of Southern California and written by a premier selection of the leading scientists in their respective fields Each section is edited by a specialist in the relevant area The important research in all areas of Behavioral Neuroscience is covered in a total of 210 chapters on topics ranging from neuroethology and learning and memory to behavioral disorders and psychiatric diseases The only comprehensive Encyclopedia of Behavioral Neuroscience on the market Addresses all recent advances in the field Written and edited by an international group of leading researchers truly representative of the behavioral neuroscience community Includes many entries on the advances in our knowledge of the neurobiological basis of complex behavioral psychiatric and neurological disorders Richly illustrated in full color Extensively cross referenced to serve as the go to reference for students and researchers alike The online version features full searching navigation and linking functionality An essential resource for libraries serving neuroscientists psychologists neuropharmacologists and psychiatrists Primate Neuroethology Michael L. Platt, Asif A. Ghazanfar, 2010-03-01 This edited

volume is the first of its kind to bridge the epistemological gap between primate ethologists and primate neurobiologists. Leading experts in several fields review work ranging from primate foraging behavior to the neurophysiology of motor control from vocal communication to the functions of the auditory cortex.

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