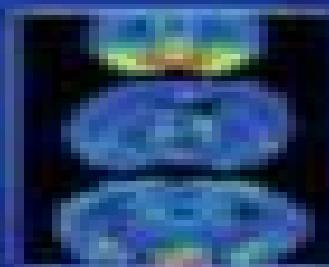
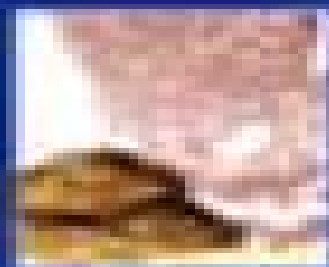
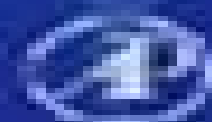


NEUROBIOLOGY OF THE PARENTAL BRAIN



EDITED BY
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Neurobiology Of The Parental Brain

Robert Bridges



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, 2003-06-11 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

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 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

Mother Brain Chelsea Conaboy,2022-09-15 Promises a new route through the parenting wilds Sunday Times Powerful honest and reassuring Professor Gina Rippon A vital new narrative Meticulously researched compelling and compassionate Elinor Cleghorn A compelling book that upends popular notions about becoming a parent reminds us why scientific research is a feminist issue New Stateman I wish I d had this book when I first became a mother Emma Jane Unsworth 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 learn how to meet their child s needs Yet this emerging science is mostly absent from the public conversation about parenthood Untangling insidious myths from complicated realities Chelsea Conaboy reveals that 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 she uncovers unexpected upsides generations of scientific neglect and an empowering new narrative of parenthood 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,2022-09-13 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

Joyful, Yet Effective Parenting J. Keith Houff, 2011-06 Keith Houff is the Regional Director of People Places Inc Valley Offices Staunton Virginia where he is a licensed professional counselor For over 30 years he has worked with foster adoptive and biological parents and their children He received his doctorate in counseling psychology from Virginia Tech in 1985 and is a member of the American Mental Health Counselors Association and American Association of Christian Counselors As a part of his professional career he has co authored a parent curriculum and has led parent trainings in Virginia New York Illinois Tennessee and Georgia Keith is a stage four cancer survivor celebrating 10 years of being disease free Sharing his life with his wife of 37 years Sarah they have three adult children and two grandsons *Encyclopedia of Behavioral*

Neuroscience: P-V & index George F. Koob, Michel Le Moal, Richard F. Thompson, 2010 **The Neurobiology of Parental Behavior** Michael Numan, Thomas R. Insel, 2014-01-15 **Summary of Chelsea Conaboy's Mother Brain** Everest

Media, 2022-10-12T22:59:00Z Please note This is a companion version not the original book Sample Book Insights 1 The first time I tried to answer the question What does it mean to become a mother it involved pumping two or so ounces of breast milk that would become just one of the two bottles I needed to feed my infant at day care the following day I sat in that closet and pumped and pumped and when the milk didn t come I sat in that closet and pumped some more until I was so frustrated that my back hurt and my breasts felt like they were going to explode And still the milk wouldn t come I was desperate I wanted to know what it means to become a mother but I couldn t get an answer Still unable to produce enough milk for my baby I went back to work I needed more information but more information was not coming I was four months postpartum the time of most intense lactation and this still wasn t enough milk How long would this take What does it mean to become a mother For many women the answer is scary because it means examining how they are different from nonmothers and from

a male perspective how much less interesting they are 2 This is not a parenting book I have two kids and I have written a book describing my experience as a new parent I am not a parenting expert 3 This book will not give you advice on how to raise your child or how to be a parent It will instead explore the biological changes and lived experience that makes parenthood so profound 4 The idea that we are the dedicated mother bird guided by a maternal instinct that has been perfected through the ages is bullshit We are not naturally caring for our children We are not born with the ability to do so

Encyclopedia of Behavioral Neuroscience: H-O George F. Koob, Michel Le Moal, Richard F. Thompson, 2010

Neuroendocrine Regulation of Maternal Defense in Lactating Mice Kimberly L. D'Anna, 2008 **Mommy Brain**

Jodi Pawluski, 2023 Do you sometimes have the feeling that your brain is going to mush and that your baby is literally sucking the life out of your neurons Don't worry you're not losing your mind In fact your brain is getting a complete makeover and focusing on new areas of learning which are essential for parenting In this book Dr Jodi Pawluski questions our relationship with motherhood and explores in an unprecedented way the fantastic universe of the maternal and parental brain Drawing on numerous scientific studies including her own neuroscience research and experience she provides insight into how your brain really changes with motherhood and why **Handbook of Aggressive Behavior Research** Caitriona Quin, Scott

Tawse, 2009 Aggression is a complex social behaviour with multiple causes In psychology as well as other social and behavioural sciences aggression refers to behaviour between members of the same species that is intended to cause pain or harm Aggression takes a variety of forms among humans and can be physical mental or verbal Aggression should not be confused with assertiveness however although the terms are often used interchangeably There are two broad categories of aggression These include hostile affective or retaliatory aggression and instrumental predatory or goal oriented aggression Empirical research indicates that there is a critical difference between the two both psychologically and physiologically Some research indicates that people with tendencies toward affective aggression have lower IQs than those with tendencies toward predatory aggression If only considering physical aggression males tend to be more aggressive than females This new book gathers the latest research from around the world in this field **Cognitive Neuroscience Society ... Annual Meeting**

Abstract Program Cognitive Neuroscience Society. Meeting, 2008 **Neurobiology of Mental Illness** Dennis S. Charney, Eric J. Nestler, Benjamin S. Bunney, 2001 Advances in molecular and cellular biology and in the basic neurosciences are now bringing the revolution in molecular medicine to the field of psychiatry This is the first comprehensive text to chart that progress In 70 concise chapters it describes the current state of knowledge about the neurobiological mechanisms underlying psychiatric disorders and shows how this information has the potential to dramatically improve treatment and ultimately lead to prevention The text has been written by world renowned experts in basic neuroscience and the pathophysiology and treatment of psychiatric disorders It begins with a concise overview of the basic neurosciences followed by an evaluation of the tools that are available for the study of mental disorders in humans The core of the book is a series of

consistenetly organized sections on affective disorders anxiety disorders psychotic disorders substance abuse disorders psychiatric disorders in children and miscellaneous diagnostic entities Chatpers are written in a clear style that is easily accessible to practicing psychiatrists and yet they are detailed enough to interest researchers and academics The book iswell illustrated and contains selected references that willprove valuable to readers Both as a textbook and a reference work Neurobiology of Mental Illness represents a unique and valuable resource for students of medicine neuroscience and psychology psychiatric residents and other trainees inthe mental health professions practicing psychiatrists and psychologists and other healthcare professionals

Handbook of Autism and Pervasive Developmental Disorders, Diagnosis, Development, Neurobiology, and Behavior Fred R. Volkmar,2005-04-28 Comprehensive work providing a thorough review of autism and related disorders drawing on findings and clinical experience from a number of related disciplines Covers all current treatment models and is updated to include new methods for screening and assessment genetic components and school based interventions All chapters have been thoroughly updated two thirds of chapters are entirely new to this edition

Handbook of Parenting: Biology and ecology of parenting Marc H. Bornstein,1995 Volume 2

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