

BIOLOGY

# NEUROBIOLOGY OF THE PARENTAL BRAIN

EDITED BY **Robert S. Bridges**, Ph.D.

Professor - Department of Biomedical Sciences and Head - Section of Reproductive Biology, Cummings School of Veterinary Medicine at Tufts University, North Grafton, Massachusetts

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 emerge of how the biology of the brain and the reproductive state of the parent impact their mental health and the successful rearing of young.

TOPICS COVERED INCLUDE:

- the neural network of motherhood: fundamental and functional MRI studies of parental care – from rodents to humans
- genes to epigenes – the role of gene-environment interactions in parenting
- parenting strategies and priorities in raising young
- maternal defense – the neurobiology of maternal protection
- motherhood and postpartum depression – significance and underlying causes
- parenting and anxiety – neurobiological basis for reductions during the postpartum period
- the neurobiology of fatherhood – a fresh evolutionary and biological perspective on paternal behavior
- maternal neuroplasticity – how reproductive history changes the maternal brain
- translating research – internationally renowned researchers insights into common factors that regulate mammalian parenting

REVIEWS FOR NEUROBIOLOGY OF THE PARENTAL BRAIN:

'The editor *Robert S. Bridges* has done a masterful job in bringing together in this volume the leading international researchers in all areas of mammalian parental behavior and the brain. Each of the authors presents a comprehensive review of a major area of contemporary research on parenting showing how remarkable has been the progress in our understanding of all aspects of parent behavior over the past four decades. There is no other book like it in the field of parental behavior.'

JAY S. ROSENBLATT, Emeritus Daniel S. Lehrman Professor of Psychobiology, Rutgers University-Newark.

ABOUT THE AUTHOR:

*Professor Robert S. Bridges* earned his Ph.D in Endocrinology at the University of Connecticut in 1974. After completing postdoctoral trainings at the Institute of Animal Behavior at Rutgers University and at the Brain Research Institute at UCLA, he spent 12 years on the faculty of the Department of Anatomy & Cellular Biology at Harvard Medical School. He currently is Head of the Section of Reproductive Biology/Neuroendocrinology and Director of Combined DVM/MS Program in Biomedical Sciences at Tufts Cummings School of Veterinary Medicine. His research on the biological bases of maternal behavior has been funded continuously by the NIH for more than 25 years.



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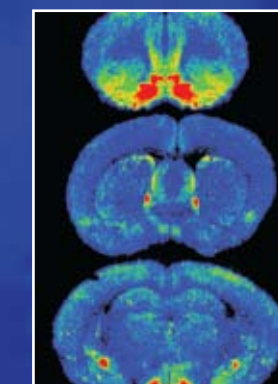
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