Národní lékařská knihovna
2530027575

Contents

Contributors ix

Preface
Mary Ellen O'Connor and Richard H. Lovely xi

Acknowledgments xiii

The Nature of Electromagnetic Stimuli
J. Van Bladel 1

Electromagnetic Orientation: A Relativistic Approach
Ad. J. Kalmijn 23

The Magnetic Detection System of the Pigeon: Involvement of Pineal and Retinal Photoreceptors and the Vestibular System
Peter Semm 47

Human Magnetoreception for Navigation
R. Robin Baker 63

The Cellular Microenvironment and Signaling Through Cell Membranes
W. Ross Adey 81

Stimulation of Brain Tissue In Vitro By Extremely Low Frequency, Low Intensity, Sinusoidal Electromagnetic Fields
Carl F. Blackman 107

Effects on the Nervous System by Exposure to Electromagnetic Fields: Experimental and Clinical Studies
Hans-Arne Hansson 119

Morphological Changes in Cerebellum of Neonatal Rats Exposed to 2.45 GHz Microwaves
Ernest N. Albert and Mahmoud Sherif 135

Microwave Effects on the Cardiovascular System: A Model for Studying the Responsivity of the Autonomic Nervous System to Microwaves
D.I. McRee, M.J. Galvin, and C.L. Mitchell 153

Microwave Challenges to the Thermoregulatory System
Eleanor R. Adair 179

Thermoregulatory Responses in the Rhesus Monkey During Exposure at a Frequency (225 MHz) Near Whole-Body Resonance
W. Gregory Lotz and Jack L. Saxton 203

Microwaves as Reinforcing Events in a Cold Environment
M.J. Marr, J.O. de Lorge, R.G. Olsen, and M. Stanford 219

Ústav vědeckých lékařských informací
STÁTNÍ LÉKAŘSKÁ KNIHOVNA

Microwave and Infrared Radiations as Sensory, Motivational, and Reinforcing Stimuli
Don R. Justesen 235

Prenatal Microwave Exposure and Behavior
Mary Ellen O'Connor 265

Reduced Exposure to Microwave Radiation by Rats: Frequency Specific Effects
John A. D'Andrea, John R. DeWitt, Lupita M. Portuguez, and Om P. Gandhi . 289

Microwave–Drug Interactions in the Cholinergic Nervous System of the Mouse
John C. Monahan 309

Recent Studies in the Behavioral Toxicology of ELF Electric and Magnetic Fields
Richard H. Lovely 327

People in 50 Hz Electric and Magnetic Fields: Studies in the United Kingdom
W.T. Norris and J.A. Bonnell 349

Possible Physiological Mechanisms for Neurobehavioral Effects of Electromagnetic Exposure
M.G. Shandala 367

Electromagnetic Waves and Neurobehavioral Function: Comments from Clinical Medicine
Paul J. Rosch 377

Index 389