

CONTENTS

CHANGES OF RESPONSIVENESS IN THE PATTERNING OF BEHAVIOURAL SEQUENCES - <i>J.S. Kennedy</i>	1
SEQUENTIAL ANALYSIS AND REGULATION OF INSECT REPRODUCTIVE BEHAVIOUR - <i>G. Richard</i>	7
SENSORY INPUT AND THE INCONSTANT FLY <i>V.G. Dethier</i>	21
CONTROL OF FEEDING AND DRINKING IN DIAPAUSING INSECTS - <i>J.G. Stoffolano, Jr.</i>	32
THE REGULATION OF FOOD INTAKE BY ACRIDIDS <i>E.A. Bernays and R.F. Chapman</i>	48
NEURAL MECHANISMS OF RESPONSE MODIFICATION IN INSECTS - <i>J.M. Camhi</i>	60
BOREDOM AND ATTENTION IN A CELL IN THE LOCUST VISUAL SYSTEM - <i>C.H.F. Rowell</i>	87
THE ANTENNAE OF INSECTS AS AIR-CURRENT SENSE ORGANS AND THEIR RELATIONSHIP TO THE CONTROL OF FLIGHT - <i>M. Gewecke</i>	100
RHYTHMIC ACTIVITIES AND THE INSECT NERVOUS SYSTEM - <i>P.L. Miller</i>	114
AN ANALYSIS OF DIRECTION FINDING IN MALE MOSQUITOES - <i>P. Belton</i>	139
THE DEVELOPMENT OF THE FLIGHT PATTERN IN LOCUSTS - <i>W. Kutsch</i>	149
INSECT FLIGHT AS A SYSTEM FOR THE STUDY OF THE DEVELOPMENT OF NEURONAL CONNECTIONS <i>J.S. Altman and N.M. Tyrer</i>	159
DESIGN AND FUNCTION IN THE INSECT BRAIN <i>P.E. Howse</i>	180
LEARNING AND MEMORY IN THE HONEYBEE <i>R. Menzel, J. Erber and T. Masuhr</i>	195
PERIODICITY IN THE ACTIVITY AND LEARNING PERFORMANCE OF THE HONEYBEE - <i>R. Koltermann</i>	218
MASSED TRAINING AND LATENT HABITUATION OF THE DEIMATIC RESPONSE IN THE MANTID, <i>STAGMATOPTERA</i> <i>BIOCELLATA</i> - <i>J.C. Barrós-Pita</i>	228

VIII

CHEMICAL INFLUENCE ON FEEDING BEHAVIOR OF <i>LEPTINOTARSA</i> BEETLES - <i>T.H. Hsiao</i>	237
THE ROLE OF THE HYDROCARBON α -FARNESENE IN THE BEHAVIOUR OF CODLING MOTH LARVAE AND ADULTS <i>O.R.W. Sutherland, R.F.N. Hutchins and C.H. Wearing</i>	249
NEUROSECRETORY AND CORPUS ALLATUM CONTROLLED EFFECTS ON MALE SEXUAL BEHAVIOUR IN ACRIDIDS <i>M.P. Pener</i>	264
THE ROLE OF HORMONES IN THE REPRODUCTIVE BEHAVIOR OF FEMALE WILD SILKMOTHS <i>L.M. Riddiford</i>	278
HORMONES AND INSECT BEHAVIOR - <i>L.M. Riddiford</i> <i>and J.W. Truman</i>	286
MIGRATORY BEHAVIOUR OF THE FEMALE OF THE COMMON COCKCHAFFER <i>MELOLONTHA MELOLONTHA</i> L. AND ITS NEUROENDOCRINE REGULATION - <i>M.M.C. Stengel</i>	297
A COMPARISON OF THE MIGRATORY STRATEGIES OF TWO MILKWEED BUGS, <i>ONCOPELTUS FASCIATUS</i> AND <i>LYGAEUS</i> <i>KALMII</i> - <i>R.L. Caldwell</i>	304
THE HORMONAL CONTROL OF FLIGHT IN THE MILKWEED BUG, <i>ONCOPELTUS FASCIATUS</i> - <i>M.A. Rankin</i>	317
THE EXPERIMENTAL ANALYSIS OF MIGRATION AND LIFE-HISTORY STRATEGIES IN INSECTS <i>H. Dingle</i>	329
INDEX TO AUTHORS.....	343
INDEX TO INSECTA AND OTHER ANIMALS.....	352
SUBJECT INDEX.....	355