Model Systems in Biological Psychiatry Edited by David J. Ingle and Harvey M. Shein

The MIT Press Cambridge, Massachusetts, and London, England

Contents

Dedication ix

1 Introduction

1

David J. Ingle and Harvey M. Shein

2 Animal Models of Schizophrenia

4

Steven Matthysse and Suzanne Haber

3 Animal Models and Schizophrenia

26

Conan Kornetsky and Robert Markowitz

4 Biological Models in the Study of False Neurochemical Synaptic Transmitters Ross J. Baldessarini and Josef E. Fischer

5 Tissue- and Cell-Culture Models in the Study of Neurotransmitter and Synaptic Function 80 Harvey M. Shein

80

6 Central Dopaminergic Neurons: A Model for Predicting the Efficacy of Putative Antipsychotic Drugs? Benjamin S. Bunney and George K. Aghajanian

7 The Frog's Visual System as a Model for the Study of Selective Attention David J. Ingle

8 Processes Controlling Aggressive Behavior in Cichlid Fish Walter Heiligenberg

9 A Model System for Neurophysiological Investigations of Behavioral Plasticity 149 Dennis L. Glanzman, Timothy J. Teyler, and Richard F. Thompson

10 The Goldfish as a Model Experimental Animal for Studies of Biochemical Correlates of the Information-Storage Process Victor E. Shashoua

Index 191