

CONTENTS

<i>Contributors</i>	v
<i>Preface</i>	vii
1 INTRODUCTION Edward O. Wilson	1
2 DEFINING "COMMUNICATION" Gordon M. Burghardt	5
3 PURITY, IDENTITY, AND QUANTIFICATION OF PHEROMONES P. Z. Bedoukian	19
4 CHEMICAL COMMUNICATION IN INSECTS: BEHAVIORAL AND ECOLOGIC ASPECTS Colin G. Butler	35
5 THE ROLE OF CHEMICALS IN TERMITE COMMUNICATION Alistair M. Stuart	79
6 RESPONSES OF OLFACTORY AND GUSTATORY RECEPTOR CELLS IN INSECTS Brunhild Stürckow	107
7 RESEARCHES ON TRAIL AND ALARM SUBSTANCES IN ANTS A. Gabba and M. Pavan	161
8. CHEMICAL COMMUNICATION IN FISH John E. Bardach and John H. Todd	205
9 CHEMICAL PERCEPTION IN REPTILES Gordon M. Burghardt	241

10	THE ROLE OF PHEROMONES IN MAMMALIAN REPRODUCTION W. K. Whitten and F. H. Bronson	309
11	THE ROLE OF SKIN GLANDS IN MAMMALIAN COMMUNICATION R. Mykytowycz	327
12	MAN'S ABILITY TO PERCEIVE ODORS Trygg Engen	361
	GENERAL DISCUSSION (CHAPTERS 8-12)	385
	COMMUNICATION BY CHEMICAL SIGNALS (CONCLUSION) J. Le Magnen	393
	<i>Index</i>	405