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EDITORS

# Chemical Signals in Vertebrates 11



 Springer

# Chemical Signals In Vertebrates

**Dietland Müller-Schwarze, Robert M.  
Silverstein**



## **Chemical Signals In Vertebrates:**

**Chemical Signals in Vertebrates 4** David Duvall, Dietland Müller-Schwarze, Robert M. Silverstein, 2012-12-06 This volume reviews recent developments in our understanding of chemical signaling in vertebrates After sections dealing with general principles and chemical aspects of vertebrate pheromones it follows a taxonomic approach progressing from fish to mammals The editors asked a diverse international group of leading investigators working on a wide array of vertebrate taxa and specific issues to consider their efforts from comparative evolutionary and ecological viewpoints The relative number of manuscripts in each part does not necessarily reflect current intensity of research since the editors invited speakers who together would provide a balanced and comprehensive overview while avoiding duplication Still the part on mammals is the longest Fourth in a series dating from 1977 this volume illuminates current trends and likely future developments in the field of chemical signaling in vertebrates Going back even farther the first chapter a personal account of the past quarter century by Dr Mykytowycz recalls the most important milestones such as symposia or the founding of societies and journals He also credits those investigators who stand out by their seminal studies

**Chemical Signals in Vertebrates 9** Anna Marchlewska-Koj, John J. Lepri, Dietland Müller-Schwarze, 2012-12-06 It is generally accepted that the recent progress in molecular and cellular biology would not have been possible without an understanding of the mechanisms and signaling pathways of communication inside the cell and between various cells of the animal organism In fact a similar progress occurred in the field of chemical communication between individual organisms of vertebrate species and this volume is aimed at presenting the current state of the art on this subject The reader can find here both original results obtained in the laboratory or field studies and comprehensive reviews summarizing many years of research The presentations of over 60 scientists have been grouped according to their approach into nine parts covering such fields as ecological and evolutionary aspects of chemical communication structure and neuronal mechanisms of chemosensory systems chemical structure of pheromones and binding proteins kin individual and sexual recognition predator prey relationships purpose and consequences of marking behavior scent signals and reproductive processes Expanding on former volumes of this series entirely new chapters have been added on prenatal chemical communication describing specific effects of the intrauterine environment In many cases a truly multidisciplinary approach was required such as with the population analysis of polymorphic variants of the mouse's major urinary proteins that function in carrying pheromones

[Chemical Signals in Vertebrates](#), 1977

**Chemical Signals in Vertebrates 6** R.L. Doty, Dietland Müller-Schwarze, 2013-11-11 This volume is an up to date treatise of chemosensory vertebrate research performed by over 200 scientists from 22 countries Importantly data from over 25 taxa of vertebrates are presented including those from human beings Unlike other volumes on this topic a significant number of the contributions come from leading workers in the former Soviet Union and reflect studies within a wide variety of disciplines including behavior biochemistry ecology endocrinology genetics psychophysics and morphology

Most of the studies described in this volume were presented at the Chemical Signals in Vertebrates VI CSV VI symposium held at the University of Pennsylvania in the summer of 1991 This international symposium was the largest and the most recent of a series of six such symposia the first of which was held in Saratoga Springs New York June 6 9 1976 and the last in Oxford England August 8 10 1988 Unlike the previous symposia Chemical Signals in Vertebrates VI lasted a full week reflecting the increased number of participants and the desire of many to present their research findings orally to the group as a whole

**Chemical Signals in Vertebrates 10** R.T. Mason, Michael P. Lemaster, Dietland Müller-Schwarze, 2006-11-09 The editors and contributors to this volume should be justifiably proud of their participation in the tenth triennial meeting of the Chemical Signals in Vertebrates International Symposium This meeting was held 27 years after the initial gathering of participants in Saratoga Springs New York from June 6 to 9 1976 Subsequent meetings have been held every three years in Syracuse New York Sarasota Florida Laramie Wyoming Oxford England Philadelphia Pennsylvania Tübingen Germany Ithaca New York and Krakow Poland This tenth anniversary symposium was held from July 29 through August 1 in Corvallis Oregon and was hosted by the Zoology Department and Biology Programs of Oregon State University This book also represents the tenth in a series of books on chemical communication chemical ecology olfactory and vomeronasal research in vertebrate species The species covered in the chapters herein range from fish to mammals including humans By taxonomic breakdown the mammals are the most represented in number of species and chapter contributions However the hosts of the meeting endeavored to have some representative contributions covering all of the major vertebrate taxa As in past years the meeting was well represented with just over 100 participants from 13 different nations Plenary talks focused on some of the non mammalian groups that have tended to be less represented in these symposia Thus we had a very nice overview of comparisons and contrasts of invertebrate chemical communication to vertebrate systems Chemical Signals in Vertebrates 15 Benoist Schaal, Diane Rekow, Matthieu Keller, Fabrice Damon, 2023-10-16 The 15th Meeting on Chemical Signals in Vertebrates CSiV reunited participants from 20 countries from 5 continents who electronically commuted to Dijon France during three days 3 5 November 2021 This virtual meeting was a great opportunity to share information on how amphibians reptiles birds and mammals communicate through chemosignals and integrate their environment through chemical cues Scientists from varied disciplines ranging from biology and psychology to chemistry and biostatistics attended the meeting to share their research on how vertebrates produce and release chemical cues and signals how they detect discriminate process and interpret them how they respond to them behaviorally physiologically and or neurally in adaptive ways how the typical or atypical environment modulates such chemocommunication loops and chemoreception in general In total this 2021 CSiV meeting presented important new findings representative of the growing points in the rapidly expanding field of research on chemocommunication among vertebrates As appreciated by Dietland Müller-Schwarze a well known pioneer in the field and the founding father of the book series in question in his foreword to the meeting Our field has broadened to new

horizons besides multicomponent cues we now learn about multisource and multifunction chemical signals The range of study animals and settings has become richer and we have learned enough that practical applications are becoming realistic This proceedings documents key presentations from this virtual conference *Advances in Chemical Signals in Vertebrates* Robert E. Johnston, Dietland Müller-Schwarze, Peter W. Sorenson, 2012-12-06 The field of olfactory research and chemical communication is in the early stages of revolutionary change and many aspects of this revolution are reflected in the chapters in this book Thus it should serve admirably as an up to date reference First a wide range of vertebrate groups and species are represented Second there are excellent reviews of specific topics and theoretical approaches to communication by odors including chapters on signal specialization and evolution in mammals the evolution of hormonal pheromones in fish alarm pheromones in fish chemical repellents the chemical signals involved in endocrine responses in mice and the controversy over human pheromones Third there are exciting new findings presented in numerous specific topic areas such as the chemis try of pheromones in a wide range of species salamanders to elephants the chemistry of proteins that control the release of pheromones the molecular biology and physiology of detection coding and response to odor signals the effects of experience on sensitivity to odors the role of genes of the immune system in odor production and in human mate choice the function and perception of scent over marks the recognition of individuals and kin by odors the influence of odors on predator prey interactions and the use of odors to help control pests This book is an offshoot of the Eighth International Symposium on Chemical Sig nals in Vertebrates held at Cornell University in Ithaca New York July 20 25 1997 hosted and organized by Bob Johnston **Chemical Signals** D. Muller-Schwarze, 2012-12-06 Research on chemical communication in animals is in a very active and exciting phase more species are studied data are accumulating concepts are changing and practical application seems feasible While most of the work on chemical ecology and chemical sig nals deals with insects vertebrate communication provides a formidable challenge and progress has been slow Joint efforts and frequent direct contacts of ecologists behaviorists psychologists physiologists histologists and chemists are required Such an interdisciplinary exchange of information took place on the occasion of the Symposium on Chemical Signals in Vertebrates and Aquatic Animals in Syracuse New York from May 31 to June 2 1979 More than one hundred investigators from seven countries participated and the papers presented comprise this volume Since the first Symposium on Vertebrate Chemical Signals at Saratoga Springs in 1976 considerable progress has been made with field studies the physiology of the vomeronasal organ and its role in reproductive behavior The behavioral functions and chemi cal nature of priming pheromones are better understood Efforts to isolate and identify mammalian pheromones are gaining ground and the bioassays are becoming more sophisticated In addition to formal presentations one evening of the Symposi um was devoted to round table discussions of particular topics The selected themes indicate the growing points of chemical communi cation research priming pheromones vomeronasal organ bioassay and practical applications **Chemical Signals in Vertebrates**

**11** Jane Hurst, Robert J. Beynon, S. Craig Roberts, Tristram Wyatt, 2007-10-26 This volume contains the proceedings of the conference of the same name held in July 2006 at the University of Chester in the United Kingdom It includes all the latest research on chemical communication relevant to vertebrates particularly focusing on new research since the last meeting in 2003 Topics covered include the chemical ecology biochemistry behavior olfactory receptors and the neurobiology of both the main olfactory and vomeronasal systems of vertebrates Chemical Signals in Vertebrates 13 Bruce A. Schulte, Thomas E. Goodwin, Michael H. Ferkin, 2015-12-09 In 2014 the Chemical Signals in Vertebrates CSiV group held its 13th triennial meeting in conjunction with the 30th meeting of the International Society of Chemical Ecology ISCE The meeting convened on the campus of the University of Illinois at Urbana Champaign This meeting was the first held jointly with these two groups which share common history and are dedicated to understanding the role of chemical communication in the lives of organisms This volume is a collection of the proceedings of this meeting and like the meeting cover a variety of topics in chemical ecology including Chemical Ecology of Social Behavior Chemical Signals Analysis and Synthesis Evolution Genomics and Transcriptomics of Chemical Signals Molecular Mechanisms of Semiochemical Perception and Processing Multimodal Communication and Neuroethology and Neurophysiology Chemical Signals in Vertebrates 14 Christina D. Buesching, 2019-07-19 In August 2017 the Chemical Signals in Vertebrates CSiV group held its 14th triennial meeting at Cardiff University in Wales This well established international conference brings together leaders and students in the field of olfactory communication and chemical signaling of vertebrates to present new advances in their research as well as synopses of disparate areas under new angles This volume is a collection of the proceedings of this meeting authored by leading experts in this field that covers a wide variety of topics in chemical ecology Chemical Signals in Vertebrates 12 Marion L. East, Martin Dehnhard, 2013-02-26 Three invited international experts present overviews of recent developments in key fields and will submit chapters for the book Jane Hurst from Liverpool University in the UK presents an overview on the function mechanisms and evolution of chemical signals Penelope Hawkins from the University of Western Australia will detail the importance of male odors in female mate choice and the priming of female reproduction and Francesco Bonadonna from CNRS CEFE Montpellier in France presents an overview of the importance of chemical signals for the formation and maintenance of pair bonds parent offspring recognition and navigation in seabirds Select submissions are invited by the scientific committee to contribute chapters *Chemical Signals in Vertebrates 7* Raimund Apfelbach, 1995 This is the seventh in a series of books on chemocommunication and chemical ecology in animals from fish to humans This volume grew out of the Symposium on Chemical Signals in Vertebrates VII hosted in July 1994 in Germany More than 200 scientists from 22 countries contributed to the symposium and this book Expression of olfactory receptors effects of the major histocompatibility complex and of bacteria on semiochemicals are growing points of the young disciplines of chemoreception and chemocommunication studies They are balanced by a strong field of behavior studies in a broad array of taxa

Investigations of sensory inputs deal with olfaction vomolfaction taste and terminal nerve The breadth of the topics covert attests to the vigor and importance of the study of chemical signals in vertebrates including of course humans *Chemical Signals in Vertebrates 5* David Whyte Macdonald,Dietland Müller-Schwarze,S. E. Natynczuk,1990 This book is the fifth in a series on the subject of chemical signals arising out of international conferences held every three years since 1976 This volume contains both substantial reviews and original research reports Chemical cues and signals usually in the form of odors play a significant role in the lives of domestic and wild animals Odors may attract or repel They influence feeding and mating behavior detection of predators and prey social and spatial structure within groups and the defense of territories Biologists are continually refining their understanding of these phenomena and find ever more complex relationships among the chemical properties of the odor producing substances the physiological mechanisms of olfactory detection and the behavioral responses of different kinds of vertebrates and of the two sexes under varying conditions Researchers and scientists in the animal sciences will find this book of particular interest **Chemical Signals in Vertebrates 3** Dietland Müller-Schwarze,Robert M. Silverstein,2013-11-21 The first volume in this series appeared in 1977 the second in 1980 From these volumes and the present one some research trends in chemical communication can be perceived In the 1977 volume studies on 13 animal taxa were reported In the present volume the number is 25 This taxonomie diversi fication of research since the first volume of this series demon strates the wide variety of ecological adaptions although no new general principles of chemical communication have ernerged Further more divergences in chemical comrnunication below the species level have become more apparent In general more sophisticated observa tions and techniques have led to greater awareness of the com plexities in chemical communication As such awareness has also developed in the field of insect chemical communication there has been a corresponding increase in the identification of the chemical compounds involved However in the vertebrates no such correlation exists in the present volume conclusive chemical identifications of semiochemicals are remarkable by their paucity **Chemical Signals in Vertebrates , CHEMICAL SIGNALS IN VERTEBRATES-SYMPIOSIUM- PAPERS- U S NATIONAL SCIENCE FOUNDATION. , Chemical Signals** Robert Milton Silverstein,1980 **Chemical Signals in Vertebrates** Dietland Müller-Schwarze,Robert Milton Silverstein,1982 Chemical Signals in Vertebrates and Aquatic Animals Dietland Müller-Schwarze,Robert M. Silverstein,1980

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