

# **Social Behaviour in Animals**

**With special reference  
to vertebrates**

**N. Tinbergen**

A **Psychology Press** Book



# Social Behaviour In Vertebrates

**Nikolaas Tinbergen**



## **Social Behaviour In Vertebrates:**

**Social Behaviour in Animals with Special Reference to Vertebrates** Niko Tinbergen, 2014-02 2014 Reprint of 1953 New York Edition Full facsimile of the original edition not reproduced with Optical Recognition Software This book aims to be a presentation of a biological approach to the phenomena of social behavior in animals This approach is characterized by the need for careful observation of the variety of social phenomena occurring in nature by emphasis on a balanced study of the three main biological problems function causation evolution by emphasis on an appropriate sequence of description qualitative analysis quantitative analysis and finally by emphasis on the need for continuous re synthesis The book covers a range of aspects of animal behavior including mating fighting family and group life and social organizations as well as some unrelated analytical evidence acquired under such special laboratory conditions it is at present impossible to say how it is related to the normal life of the species concerned The significance of intraspecific fighting the causation of threat and courtship behavior the functions of releasers and other problems are discussed in detail and an attempt has been made to give them their proper place in the complex system of problems Tinbergen was a Dutch ethologist and ornithologist who shared the 1973 Nobel Prize in Physiology or Medicine with Karl von Frisch and Konrad Lorenz for their discoveries concerning organization and elicitation of individual and social behavior patterns in animals

**Social Behavior in Animals, with Special Reference to Vertebrates** Niko Tinbergen, 1968 **Social Behavior of Female Vertebrates**

Samuel Wasser, 2012-12-02 Social Behavior of Female Vertebrates focuses on the evolution of reproductive behavior in female vertebrates ranging from fish to birds and humans including issues of mate choice and other factors underlying female attitudes toward males It also looks at the evolution of mating systems the co evolution of the sexes sex role reversal reproductive competition between females maternal behavior and how females enhance the investment received by their offspring from others It also considers other social behaviors that influence the nature of affiliative associations between females Organized into three parts encompassing 13 chapters this volume begins with an overview of behavioral biology and sources of variation in female reproductive success It then discusses the establishment and maintenance of sex biases sex differences mediated by sexual selection constraints on female choice in the mottled sculpin mate choice by females in sexual selection of bird song and female manipulation of male avoidance of cuckoldry behavior in the ring dove The reader is also introduced to the evolution of polyandry in shorebirds reproductive strategies in human females social and health seeking behaviors of Taiwanese women female roles in cooperatively breeding acorn woodpeckers altruism in coati bands cooperation and reproductive competition among female African elephants mate choice in matrilineal macaque groups and reproductive competition and cooperation among female yellow baboons This book is a valuable resource for scientists and behavioral biologists as well as lay people whose interests span a variety of fields **Social Behaviour in Animals, with Special Reference to Vertebrates** Nikolaas Tinbergen, 1971 *Social Behaviour in Animals* N. Tinbergen, 1962 Social

Behaviour in Animals (Psychology Revivals) N. Tinbergen, 2013-09-25 Originally published in 1953 this is a classic study in animal behaviour drawing on the author's own extraordinary studies of insects fish and birds as well as on the literature The concept community is taken in its widest sense to include all types of association of individuals not only flocks and herds but also the family the pair and even two animals engaged in combat The author received the Nobel Prize for his work in this field in 1973

Social Behaviour in Animals Niko Tinbergen, 1965 *Molecular and Cellular Basis of Social Behavior in Vertebrates* Jacques Balthazart, 2012-12-06 Understanding the brain mechanisms which underlie behavior is one of the most challenging tasks of modern biology The study of these mechanisms can be approached using a variety of biological systems as models depending essentially on the type of question being asked and the technical approach which is considered In vertebrates the study of brain neurochemistry in relation to behavior e xpression has made tremendous progress during the last two decades In particular much attention has been devoted to the effect of steroid hormones on brain structure and activity in connection with social and mainly reproductive behavior This book exemplifies some of the major trends in the field I did not attempt to cover exhaustively all the work that has been done in this area but rather to present a series of selected reviews on the molecular and cellular brain mechanisms most directly related to social behavior This selection obviously reflects my own interests but also I believe highlights those areas of research in which important progress has been made in recent years A number of brain biochemical or cellular mechanisms which could be related to behavior but have not been formally demonstrated to be so are consequently ignored The focus here is on social behavior and thus steroid dependent processes are covered in priority This choice of course leads us to ignore major trends in brain and behavior research but this is I hope clearly reflected in the title of the volume

**Social Behavior and Organization Among Vertebrates** William Etkin, 1967 Social Behaviour in Vertebrates Anthony Payne, 1976 **Social Behavior in Animals** N. Tinbergen, 1975 **Social Behavior and Organization Among Vertebrates** William Etkin, 1964 An analytical description of social behavior in four of the chapters by the editor Five chapters are contributed by active experimentalists each author covers recent developments in the area of his own specialty

**Hormones and Animal Social Behavior** Elizabeth Adkins-Regan, 2013-12-03 Research into the lives of animals in their natural environments has revealed a rich tapestry of complex social relationships and previously unsuspected social and mating systems The evolution of this behavior is increasingly well understood At the same time laboratory scientists have made significant discoveries about how steroid and peptide hormones act on the nervous system to shape behavior An exciting and rapidly progressing hybrid zone has developed in which these two fields are integrated providing a fuller understanding of social behavior and the adaptive functions of hormones This book is a guide to these fascinating connections between animal social behavior and steroid and peptide hormones a synthesis designed to make it easier for graduate students and researchers to appreciate the excitement engage in such integrative thinking and understand the primary literature Throughout Elizabeth Adkins Regan emphasizes

concepts and principles hypothesis testing and critical thinking She raises unanswered questions providing an unparalleled source of ideas for future research The chapter sequence is by levels of biological organization beginning with the behavior and hormones of individuals proceeding to social relationships and systems and from there to development behavioral evolution over relatively short time scales life histories and their evolution and finally evolution over longer time scales The book features studies of a wide variety of wild and domestic vertebrates along with some of the most important invertebrate discoveries

Social Behaviour Tamás Székely, Allen J. Moore, Jan Komdeur, 2010-11-18 Humans live in large and extensive societies and spend much of their time interacting socially Likewise most other animals also interact socially Social behaviour is of constant fascination to biologists and psychologists of many disciplines from behavioural ecology to comparative biology and sociobiology The two major approaches used to study social behaviour involve either the mechanism of behaviour where it has come from and how it has evolved or the function of the behaviour studied With guest articles from leaders in the field theoretical foundations along with recent advances are presented to give a truly multidisciplinary overview of social behaviour for advanced undergraduate and graduate students Topics include aggression communication group living sexual behaviour and co operative breeding With examples ranging from bacteria to social mammals and humans a variety of research tools are used including candidate gene approaches quantitative genetics neuro endocrine studies cost benefit and phylogenetic analyses and evolutionary game theory

**The Social Behaviour of Animals**, 1964

**Oxytocin's routes in social behavior: into the 21st century. "Precision Medicine" approach for Oxytocin** Elaine Keebaugh, Elissar Andari, Lisa A. Parr, 2015-12-21 Our brain is endowed with an incredible capacity to be social to trust to cooperate to be altruistic to feel empathy and love Nevertheless the biological underpinnings of such behaviors remain partially hardwired Seminal research in rodents has provided important insights on the identification of specific genes in modulating social behaviors in particular the arginine vasopressin receptor and the oxytocin receptor genes These genes are involved in regulating a wide range of social behaviors mother infant interactions social recognition aggression and socio sexual behavior Remarkably we now know that these genes contribute to social behavior in a broad range of species from voles to humans Indeed advances in human non invasive neuroimaging techniques and genetics have enabled scientists to begin to elucidate the neurobiological basis of the complexity of human social behaviors using pharmacological fMRI and imaging genetics Over the past few years there has been a strong interest focused on the role of oxytocin in modulating human social behaviors with translational relevance for understanding neuropsychiatric disorders such as autism schizophrenia and depression in which deficits in social perception and social recognition are key phenotypes The convergence of this interdisciplinary research is beginning to reveal the complex nature of oxytocin's actions For instance the way that oxytocin does influence social functioning is highly related to individual differences in social experiences but also to the inter individual variability in the receptor distribution of this molecule in the brain Remarkably despite the increasing evidence

that oxytocin has a key role in regulating human social behavior we still lack of knowledge on the core mechanisms of action of this molecule Understanding its fundamental actions is a crucial need in order to target optimal therapeutic strategies for human social disorders The originality of this Research Topic stands on its translational focus on bridging the gap between fundamental knowledge acquired from oxytocin research in voles and monkeys and recent clinical investigations in humans For instance what are the key animal findings that can import further knowledge on the mechanisms of actions of this molecule in humans What are the key experiences that can be performed in the animal model in order to answer significant science gaps in the treatment of neuropsychiatric disorders Hence within this Research Topic we will review the current state of the field identify where the gaps in knowledge are and propose directions for future research This issue will begin with a comparative review that examines the role of this peptide in diverse animal models which highlights the adaptive value of oxytocin s function across multiple species Then a series of reviews will examine the role of oxytocin in voles primates and humans with an eye toward revealing commonalities in the underlying brain circuits mediating oxytocin s effects on social behavior Next there will be a translational review highlighting the evidence for oxytocin s role in clinical applications in psychopathology Hence via the continuum of basic to translational research areas we will try to address the important gaps in our understanding of the neurobiological routes of social cognition and the mechanisms of action of the neuropeptides that guide our behaviors and decisions

**Social Behaviour in Animals** Niko Tinbergen,1969 **Social Behaviour in Animals** Nikolaas Tinbergen,1965-10-15 HIS book is not intended as an exhaustive review T f facts I ts aim is rather the presentation of a bio logical approach to the phenomena of social behaviour This type of approach was revived by Lorenz s pioneer stnJies It is characterized by emphasis on the need for renewed and careful observation of the huge variety of social phenomena occurring in nature by emphasis on a balanced study of the three main biological problems unction causation evolution by emphasis on an appro priate sequence of description qualitative analysis quanti tative analysis and finally by emphasis on the need for continuous re synthesis The character of this approach combined with the limitations of space have determined this book s contents Limits of space led to the omission of a great deal of de scrip tion Thus Deegener s voluminous work on the multitude of types of animal aggregations has not been discussed Also the highly specialized states of social insects have not been treated in detail since there are excellent books dealing exclusively with them

*Reproductive Neuroendocrinology and Social Behavior* Ishwar S. Parhar,Tomoko Soga,Sonoko Ogawa,2016-10-12 Anti social behaviors and social deficits induced mental disorders are critical problems in our society today Social behaviors and interactions are shaped by experience hereditary components genes hormones and neuropeptides and environmental factors photoperiods and metabolic signals In addition to the classical gonadotropin releasing hormone RFamide peptides kisspeptin and gonadotropin inhibiting hormone are emerging as important regulators of the reproductive axis These neuropeptides are evolutionarily conserved and are regulated by environmental factors In this Research Topic we advocate more recent

advances in reproductive neuropeptides and sex steroids in the domains of social behavior including sexual and parental behavior aggression stress and anxiety Using multiple species model we also review how genes and the neuroendocrine system interact at the cell and organismic levels to contribute to social behavior in particular the epigenetic genomic changes caused by early life environment We provide comprehensive insights of distinct neural networks and how cellular and molecular events in the brain regulate social behavior from a comparative perspective

**Social Behaviour in Animals J.**  
Tinbergen, 1990-03-31

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