

THE EVOLUTION AND CHEMISTRY OF AGGRESSION

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This authoritative volume brings together current theorizing and research on the evolutionary and chemical aspects of aggression. While it is possible to investigate one facet independently of the other, the two, evolution and chemistry, are intimately intertwined and are best studied together. Since aggression is viewed as the most direct form of competition, it is discussed within the framework of evolution. Wherever possible natural selection processes are stressed.

While the emphasis is on vertebrate and especially mammalian aggression, this book also suggests the genesis of aggression among invertebrates and even among competing single cells. A second area of emphasis is on understanding the biochemical processes underlying aggression. Rapid studies are being made in this area, especially with the advent of psychopharmacology and the continued advances in neuroendocrinology. Chemicals in the form of environmental signals (pheromones) also have direct effects on aggression, and are discussed anew.

Divided into five chapters, this text:

- explores the phylogenetic history of aggression and emphasizes its adaptive significance

- outlines several genetic correlates of aggression, suggests how competition shapes the social and reproductive organization of populations, and gives data to suggest that human aggression is partially determined by genetic factors and mediated through biochemical and morphological attributes
- examines the hormonal control of aggression
- reviews the significance of chemosignals in directing aggression and reproductive competence
- discusses the brain biochemistry of aggression and how pharmacological substances affect aggression

A major point woven throughout the chapters is that aggression is a form of competition—for mates, food, territories and other resources—but it is not the only form. Success in living and reproducing nearly always involves competition, but it need not involve fighting. In fact, the advantages which can sometimes be acquired by fighting can often be obtained through other means.

(continued on front flap)

*American Lecture Series**



The Evolution And Chemistry Of Aggression

Rachel Sandford



The Evolution And Chemistry Of Aggression:

The Evolution and Chemistry of Aggression Delbert D. Thiessen, 1976 *Advances in the Study of Aggression* Robert J. Blanchard, D. Caroline Blanchard, 2013-10-22 *Advances in the Study of Aggression* Volume 1 aims to span some of the variety of aggression research pinpointing areas in which phenomena or concepts that have arisen or been tested extensively with animal models are now being applied to human aggression Chapter 1 presents an article on the relevance of animal aggression research to human aggression and discusses a brief sociobiological view of aggression and its immediate determinants over a number of mammalian species A description of some features of human aggression and endeavor and its link to the animal model is also considered in this chapter Chapter 2 is an article on the biological explanations of human aggression and the resulting therapies offered by such approaches and Chapter 3 is an article on the development of stable aggressive reaction patterns in males The next chapter is about the control of aggressive behavior by changes in attitudes values and the conditions of learning Chapter 5 describes the coercive interactions of siblings and parents as well as those for siblings and identified problem children Differences in sibling reactions between normal and distressed families together with the relationship of these differences to increased rates of coercive behaviors in distressed families are encompassed in this chapter The text concludes by discussing advances in aggression research Psychologists psychiatrists sociologists anthropologists will find the book invaluable *Hormones and Aggressive Behavior* Bruce B. Svare, 2013-03-07 This volume is an overview of research examining the relationship between hormones and aggressive behavior The last 15 years have witnessed a tremendous growth of knowledge in this area yet reviews written by specialists are virtually nonexistent This work is an attempt to provide a comprehensive and cohesive synthesis of this literature Chapters 1-7 provide an analysis of hormonal influences on the major forms of aggressive behavior including intermale interfemale shock induced maternal territorial and predatory aggression The focus of Chapters 8-12 is an examination of the mechanisms through which hormones might act to produce changes in agonistic responding Genetic developmental neural and biochemical influences are considered It is well known that environment social context and experience modulate the effects of hormones on behavior Thus Chapters 13-15 are designed to review the literature concerning hormone pheromone interactions hormonal responses to competition and the influence of social context on the endocrine system and aggressive behavior Frequently the principles advanced by behavioral endocrinologists are based on research in one species the rodent To provide a more comparative perspective and to examine specifically the generality of those principles generated for rodents Chapters 16-22 examine hormone aggression relationships in a variety of species including fish birds amphibians reptiles infrahuman primates humans ungulates and insects This volume should be useful to both beginning and advanced researchers in animal behavior behavioral endocrinology physiological psychology neuroendocrinology zoology physiology and psychiatry

Aggression and Dangerousness David P. Farrington, John Charles Gunn, 1985 This is the third and last volume in a series

concerned with the contribution of psychiatry and psychology to all aspects of crime offenders the law legal processes the treatment of offenders and the criminal justice system The books have given an opportunity to researchers in these fields to review contemporary developments and for readers to obtain in a convenient form an overview in more detail than is possible in journals of current issues of concern where law psychology and psychiatry interact This particular book with its contributions from four of the five continents deals with the characteristics of aggressive psychopathic and dangerous offenders and with methods of dealing with them

Biology of Aggression Randy J. Nelson, 2006 Unchecked aggression and violence take a significant toll on society With recent advances in pharmacology and genetic manipulation techniques new interest has developed in the biological mechanisms of aggression The primary goal of this title is to summarise and synthesis recent advances in the subject

The Evolution of Violence Todd K. Shackelford, Randal D. Hansen, 2013-11-09 This volume is an interdisciplinary exploration of our understanding of the causes and consequences of violence Represented in its chapters are noted scholars from a variety of fields including psychology anthropology law and literature The contributions reflect a broad scope of inquiry and diverse levels of analysis With an underlying evolutionary theme each of the contributors invoke their separate areas of expertise offering empirical and theoretical insights to this complex subject The multi faceted aspect of the book is meant to engender new perspectives that will synthesize current knowledge and lead to a more nuanced understanding of an ever timely issue in human behavior Of additional interest is a foreword written by world renowned psychologist Steven Pinker and an afterword by noted evolutionary scholar Richard Dawkins

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 signals 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 chemical 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 Symposium was devoted to round table discussions of particular topics The selected themes indicate the growing points of chemical communication research priming pheromones vomeronasal organ bioassay and practical applications

Dictionary of Theories, Laws, and Concepts in Psychology Jon Roelkelein, 1998-10-28 Fully cross

referenced and source referenced this dictionary contains over 1200 entries consisting of terms concerning laws theories hypotheses doctrines principles and effects in early and contemporary psychological literature Each entry consists of the definition description of the term with commentary followed by a number of cross referenced related terms and by chronologically ordered source references to indicate the evolution of the term An appendix provides supplementary material on many laws and theories not included in the dictionary itself and will be helpful to students and scholars concerned with specialty areas in psychology

Aggression, Family Violence and Chemical Dependency Ron Potter-Efron, Patricia Potter-Efron, 2016-04-01 Here is an informational and practical book that systematically addresses the complex relationships between chemical abuse dependency aggression and family violence Directed toward professional chemical dependency and family violence counselors it provides specific guidelines for the assessment of child abuse incest and marital rape as they are likely to be encountered in a chemical dependency treatment setting Experts outline treatment suggestions for chemically dependent and codependent individuals who are or have been the victims perpetrators of family violence Aggression Family Violence and Chemical Dependency contains two unique and very detailed chapters on the relationship between aggression and the use of alcohol and other mood altering substances as well as the connections between these two and other physiological and psychological correlates of violence

Understanding Violence Graeme R. Newman, 1979

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **The Evolution And Chemistry Of Aggression**

In a world inundated with displays and the cacophony of instantaneous conversation, the profound energy and mental resonance of verbal art usually diminish in to obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, nestled within the lyrical pages of **The Evolution And Chemistry Of Aggression**, a fascinating function of literary elegance that pulses with natural thoughts, lies an memorable trip waiting to be embarked upon. Penned by a virtuoso wordsmith, that interesting opus instructions visitors on an emotional odyssey, delicately exposing the latent possible and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main styles, dissect its charming writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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