

Review

The Evolution of Human Social Behavior

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Abstract: Social life is a key feature in humans; without it, language, science, and technology would not have appeared. The inclination to engage with others is also a main source of pleasure and pain and as such a key factor for quality of life. In this paper, I shall present current knowledge on the evolutionary trajectory leading to the four main types of relations: parent–child, pair-bonding, kinship, and social life (bonding between non-kin for purposes other than breeding). These relationships are not unique to humans; they have evolved independently multiple times across the animal kingdom. In our lineage, the origins of parent–child bonding may be traced back to the early amniotes some 320 Mya (million years ago). Pair-bonding and social life most likely evolved recently. Understanding how these affiliations are rooted in the brain, particularly the role of feelings, provides valuable insights that can help us improve society.

Keywords: society; evolution; happiness; affiliations; friendship; cooperation; brain; rewards

1. Introduction

Social behavior is arguably the most important human feature to understand. An evolutionary perspective offers insight that supplements the social sciences. Dobzhansky's famous quote "Nothing in biology makes sense except in the light of evolution" [1] is therefore relevant.

Affiliations between individuals, collectively referred to as *social behavior*, have evolved independently in a wide range of animal lineages. The presence of affiliations is a question of balancing the benefits of solitary living against the compensations offered by associating with others. The various forms, such as parent–child, parental bonding, kinship, and larger constellations (referred to as *social life*), offer distinct advantages and disadvantages [2]. The main evolutionary advantage of the former two is reasonably obvious—to ensure necessary care for offspring—while social life can serve various functions. It offers, for example, increased vigilance and protection against predators, help in laying down prey, control of territory, and the construction of living quarters as in ants.

I shall focus on our branch of the evolutionary tree. I wish to present current knowledge as to the evolutionary rationale and history behind human affiliations. The neurobiology responsible will be covered briefly.

Affiliations vary from weak to strong, whether one considers differences between species or individuals. In the case of social life, bird colonies typically represent weak bonds with limited impact on behavior. In contrast, the bonds in eusocial animals such as ants and naked mole-rats control much of the observed behavior. There are also considerable variations as to what extent the neurobiology responsible is hard-wired or designed to be molded by experience. In social insects, it is presumably reasonably hard-wired, although even here the behavior is modulated by learning [3]. In the human brain, social behavior is soft-wired, as it is meant to develop and adapt throughout life.

How we relate to each other is arguably the most important factor in creating a society where the inhabitants flourish. If we understand the innate tendencies behind our social behavior and how these tendencies can be molded, we stand a better chance in this endeavor. There are several examples of a similar perspective in the literature [2,4–6], yet I believe the present text offers novel information and insight.



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The Evolution Of Human Social Behavior

JA Banks



The Evolution Of Human Social Behavior:

The Evolution of Human Social Behavior Joan S. Lockard, 1980 **Neurobiology of Social Behavior** Michael Numan, 2014-07-17 Social neuroscience is a rapidly growing interdisciplinary field which is devoted to understanding how social behavior is regulated by the brain and how such behaviors in turn influence brain and biology Existing volumes either fail to take a neurobiological approach or focus on one particular type of behavior so the field is ripe for a comprehensive reference which draws cross behavioral conclusions This authored work will serve as the market s most comprehensive reference on the neurobiology of social behavior The volume will offer an introduction to neural systems and genetics epigenetics followed by detailed study of a wide range of behaviors aggression sex and sexual differentiation mating parenting social attachments monogamy empathy cooperation and altruism Research findings on the neural basis of social behavior will be integrated across different levels of analysis from molecular neurobiology to neural systems behavioral neuroscience to fMRI imaging data on human social behavior Chapters will cover research on both normal and abnormal behaviors as well as developmental aspects 2016 PROSE Category winner Honorable Mention for Biomedicine and Neuroscience Presents neurobiological analysis of the full spectrum of social behaviors while other volumes focus on one particular behavior Integrates and discusses research from different levels of analysis including molecular genetic neural circuits and systems and fMRI imaging research Covers both normal and abnormal behaviors Covers aggression sex and sexual differentiation mating parenting social attachments empathy cooperation and altruism *The Oxford Handbook of Prosocial Behavior* David A. Schroeder, William G. Graziano, 2015 The Oxford Handbook of Prosocial Behavior provides a comprehensive review of the current literature on when and why people act to benefit others It provides a comprehensive overview of the field to give both the casual reader and the neophyte to the field some perspective about fundamental questions what why when and who relative to prosocial behavior Taking a multi level approach the chapters represent the broad spectrum of this multi faceted domain Topics range from micro level analyses involving evolutionary and comparative psychological factors to macro level applications such as reducing intergroup conflicts and ethnic genocide Between these extremes the contributors all internationally recognized in their field offer their perspectives on developmental processes that may predispose individuals to empathize with and respond to the needs of others individual differences that seem to interact with situational demands to promote helping and the underlying motivations of those helping others They explain volunteerism intragroup cooperation and intergroup cooperation to move the analysis from the individual to group level phenomena They extend the consideration of this topic to include support of pro environmental actions means to encourage participation in medical clinical trials and the promotion of world peace The ways that gender interpersonal relationships race and religion might affect decisions to give aid and support to others are also addressed The final chapter offers a unique view of prosocial behavior that encourages researchers and readers to take an even broader consideration of the field to

search for a prosocial consilience Biopolitics and Gender Meredith W Watts Jr, 2012-12-06 Here is an important book for social scientists interested in the influence of gender on certain types of behavior Several perspectives are presented on the general topic of biopolitics and gender including the points of view of brain science endocrinology ethology psychophysiology and such conventional interests as political attitudes socialization participation social structure and political hierarchy The varied and provocative ideas explored in this volume will broaden discussions of gender beyond an exclusive focus on sex links to oppression and discrimination

What Determines Social Behavior? Investigating the Role of Emotions, Self-Centered Motives, and Social Norms Corrado Corradi-Dell'Acqua, Leonie Koban, Susanne Leiberg, Patrik Vuilleumier, Ernst Fehr, 2016-09-28 Human behavior and decision making is subject to social and motivational influences such as emotions norms and self other regarding preferences The identification of the neural and psychological mechanisms underlying these factors is a central issue in psychology behavioral economics and social neuroscience with important clinical social and even political implications However despite a continuously growing interest from the scientific community the processes underlying these factors as well as their ontogenetic and phylogenetic development have so far remained elusive In this Research Topic we collect articles that provide challenging insights and stimulate a fruitful controversy on the question of what determines social behavior Indeed over the last decades research has shown that introducing a social context to otherwise abstract tasks has diverse effects on social behavior On the one hand it may induce individuals to act irrationally for instance to refuse money but on the other hand it improves individuals reasoning in that formerly difficult abstract problems can be easily solved These lines of research led to distinct although not necessarily mutually exclusive models for socially driven behavioral changes For instance a popular theoretical framework interprets human behavior as a result of a conflict between cognition and emotion with the cognitive system promoting self interested choices and the emotional system triggered by the social context operating against them Other theories favor social norms and deontic heuristics in biasing human reasoning and encouraging choices that are sometimes in conflict with one's interest Few studies attempted to disentangle between these as well as other models As a consequence although insightful results arise from specific domains tasks a comprehensive theoretical framework is still missing Furthermore studies employing neuroimaging techniques have begun to shed some light on the neural substrates involved in social behavior implicating consistently although not exclusively portions of the limbic system the insular and the prefrontal cortex In this context a challenge for present research lies not only in further mapping the brain structures implicated in social behavior or in describing in detail the functional interaction between these structures but in showing how the implicated networks relate to different theoretical models This is Research Topic hosted by members of the Swiss National Center of Competence in Research Affective Sciences Emotions in Individual Behaviour and Social Processes We collected contributions from the international community which extended the current knowledge about the psychological and neural structures underlying social behavior

and decision making In particular we encouraged submissions from investigators arising from different domains psychology behavioral economics affective sciences etc implementing different techniques behavior electrophysiology neuroimaging brain stimulations on different populations neurotypical adults children brain damaged or psychiatric patients etc Animal studies are also included as the data reported are of high comparative value Finally we also welcomed submissions of meta analytical articles mini reviews and perspective papers which offer provocative and insightful interpretations of the recent literature in the field

Human Reproductive Behaviour

Laura Betzig, Monique Borgerhoff Mulder, Paul

Turke, 1988-03-31

Biology And The Social Sciences

Thomas C. Wiegele, 2019-03-01

Exciting new developments in behavioral biology are creating an intellectual revolution in the study of human behavior and are causing social scientists to reassess the ways in which they approach their disciplines This book examines how these new findings are likely to transform and shape anthropology sociology economics and political science in the coming decade The book begins with an overview of the rapidly changing relationship between biological and social studies In successive sections well known social scientists biologists and philosophers address the theoretical challenges involved in incorporating material from sociobiology ecology genetics and psychophysiology into their own disciplines approaches to the analysis of human behavior The concluding chapters examine specific methodological problems and related issues

Evolutionary Biology and Human Social Behavior Napoleon A. Chagnon, William Irons, 1979

The Social Science Encyclopedia Adam Kuper, 2003-12-16

The Social Science Encyclopedia first published in 1985 to acclaim from social scientists librarians and students was thoroughly revised in 1996 when reviewers began to describe it as a classic This third edition has been radically recast Over half the entries are new or have been entirely rewritten and most of the balance have been substantially revised Written by an international team of contributors the Encyclopedia offers a global perspective on the key issues within the social sciences Some 500 entries cover a variety of enduring and newly vital areas of study and research methods Experts review theoretical debates from neo evolutionism and rational choice theory to poststructuralism and address the great questions that cut across the social sciences What is the influence of genes on behaviour What is the nature of consciousness and cognition What are the causes of poverty and wealth What are the roots of conflict wars revolutions and genocidal violence This authoritative reference work is aimed at anyone with a serious interest in contemporary academic thinking about the individual in society

Advances in the Study of Behavior H. Jane Brockmann, Charles T. Snowdon, Timothy J. Roper, Marc Naguib, Katherine E.

Wynne-Edwards, 2009-07-25

Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onward

The Enigmatic Realm of **The Evolution Of Human Social Behavior**: Unleashing the Language is Inner Magic

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