Sex: Advantage

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Advanced article

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One of the most important unanswered questions in evolutionary biology is why sexual reproduction is so common. In theory, sex is so costly that individuals that reproduce sexually should be at a major disadvantage relative to asexually reproducing competitors. This leads to the expectation that sex should lose in competition with asexual reproduction and thus be rare in nature, which is in striking contrast to its widespread occurrence. It is this profound disconnect between theory and reality that has motivated decades of research into potential advantages of sexual reproduction. While much progress has come from these efforts, why sex predominates is still unclear. It is likely that part of the answer is linked to an advantage of sex under pressure from coevolving parasites. Other important processes may be more efficient clearance of deleterious mutations and other costs associated with asexuality that are not direct consequences of the lack of recombination.

Introduction

What is sexual reproduction?

Sexual reproduction is defined as the production of offspring via recombination between two distinct parental genomes (recently reviewed in Schurko et al., 2009). Nearly all eukaryotic taxa are sexual, at least some of the time. Why sexual reproduction is so common is paradoxical because sex is extremely costly relative to asexual

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reproduction and should thus be lost when sexuals experience direct competition with asexuals. See also: DNA Recombination; Linkage and Crossing over; Variation, Within Species: Introduction

Costs of sexual reproduction

The cost of males

The most important cost of sex is that of male production (Maynard Smith, 1978). The cost of males is best illustrated by a comparison of the growth rate of otherwise equal sexual and asexual populations. Females that reproduce asexually only make daughters, whereas sexual females produce both sons and daughters. This discrepancy in the rate of daughter production has important consequences when sexual and asexual females compete for the same resources. If all else is equal between the two groups (e.g., females have similar life histories, physiological tolerances, dietary needs, biological enemies and habitat preferences, and are sympatric), sexual females are predicted to lose in competition to asexual females. This is simply because mades do not make offspring directly, and thus do not contribute to the growth rate of the sexual population (Figure 1). Hence, the cost of males refers to the slower growth rate of the sexual population caused by male production. Modelling the severity of this cost reveals that a sexual population of 10° individuals (sex ratio 1:1) is expected to succumb to an invasion of a single asexual mutant in less than 50 generations (Lively, 1996). The rapidity with which sex is expected to be lost is why the maintenance of sex under the pressure of invading asexuals is such an intriguing problem for evolutionary biologists. Clearly, whichever mechanism(s) are maintaining sex must operate rapidly enough that they can generate advantages for sex within a few dozen generations. See also: Fitness and Selection; Natural Selection: Sex Ratio-

The cost of recombination

Recombination has a direct cost in organisms that are well adapted to their environment: it breaks apart favourable gene combinations ('recombination load'; recently reviewed in Otto, 2009). It is not currently clear how common or important recombination load is when

Sex And Advantage

Raymond A. Belliotti

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The Evolution of Sex Sir Patrick Geddes, John Arthur Thomson, 1889

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College Sex - Philosophy for Everyone Michael Bruce, Robert M. Stewart, 2011-01-11 Written with insight and humor College Sex Philosophy for Everyone investigates a broad array of philosophical issues relating to student sex Examines the ethical issues of dating cheating courtship homosexual experimentation and drug and alcohol use Considers student teacher relationships sexual experimentation the meaning of sex in a college setting and includes two essays based on influential research projects on friends with benefits Many of the authors teach classes that explore the philosophy of love and sex and most are scholars from the Society of the Philosophy of Sex and Love Good Sex Raymond A. Belliotti.1993 Rules about sexuality written and unwritten have existed in every culture as have disagreements over what is and isn t acceptable Must morally permissible sex have only one function Must it be heterosexual Must it occur within the confines of the institution of marriage Must it be accompanied by requisite emotions such as love and intimacy The Collected Works Charlotte Perkins Gilman, 2022-11-13 Charlotte Perkins Gilman s The Collected Works is a comprehensive collection of the esteemed author s most notable writings spanning across various genres such as feminist literature social criticism and utopian fiction Gilman s literary style is characterized by its clarity acuity and fervent advocacy for women s rights and social equality making her a pivotal figure in the late 19th and early 20th centuries This collection showcases Gilman's deep insights into the societal constraints faced by women as well as her imaginative visions of alternative worlds where gender equality reigns supreme Through her poignant narratives Gilman challenges the status quo and offers thought provoking perspectives on gender roles mental health and economic independence Readers will be captivated by Gilman's astute observations and powerful storytelling which continues to resonate with contemporary audiences The Collected Works serves as a testament to Gilman s enduring influence on feminist literature and social reform making it a must read for those interested in the intersection of literature and social justice THE COLLECTED WORKS OF CHARLOTTE PERKINS GILMAN: Short Stories, Novels, Poems & Essays Charlotte Perkins Gilman, 2017-08-07 Musaicum Books presents to you this carefully created volume of THE COLLECTED WORKS OF CHARLOTTE PERKINS GILMAN Short Stories Novels Poems Or Our Androcentric Culture The Home Its Works and Influence Concerning Children Women and Economics A Small God And A Large Goddess Introducing The World The Flash and The Devil Where The Heart Is Why We Honestly Fear Socialism The Poor Relation Reasonable Resolutions Private Morality and Public Immorality The Humanness of Women The Barrel Kitchen Mindedness Parlor Mindedness Nursery Mindedness Naughty A Village of Fools Believing and Knowing The House of Apples Ten Suggestions Genius Domestic and Maternal A Man in Prison A Woman in Prison Improved Methods of Habit Culture Only an Hour Wholesale Hypnotism The Kitchen Fly Her Pets What Virtues Are Made Of Animals in Cities While The King Slept The Beauty Women Have Lost Is It Wrong To Take Life The World and The Three Artists Woman and The State Why Texts Women Teachers Married and Unmarried Christmas Love Our Overworked Instincts The Permanent Child The New Motherhood How We Waste Three Fourths of Our Money The Nun in The Kitchen Poems Then This Arrears How Doth The Hat Thanksqiving

Thanksong Charlotte Perkins Gilman 1860 1935 was a prominent American feminist sociologist novelist writer of short stories poetry and nonfiction and a lecturer for social reform WOMEN & ECONOMICS: A Study of the Economic Relation between Men and Women as a Factor in Social Evolution Charlotte Perkins Gilman, 2017-08-07 Women and Economics is a book written by Charlotte Perkins Gilman and published in 1898 It is considered by many to be her single greatest work and as with much of Gilman's writing the book touched a few dominant themes the transformation of marriage the family and the home with her central argument the economic independence and specialization of women as essential to the improvement of marriage motherhood domestic industry and racial improvement The 1890s were a period of intense political debate and economic challenges with the Women s Movement seeking the vote and other reforms Women were entering the work force in swelling numbers seeking new opportunities and shaping new definitions of themselves It was near the end of this tumultuous decade that Gilman s very popular book emerged Charlotte Perkins Gilman 1860 1935 was a prominent American feminist sociologist novelist writer of short stories poetry and nonfiction and a lecturer for social reform Founders Patricia Madoo Lengermann, Gillian Niebrugge, 2006-12-31 An essential volume for anyone interested in the history of sociology the development of sociological theory or the history of women in the profession this well researched compellingly argued book makes the case for the active and significant presence of women in the creation of sociology and social theory in its founding and classic periods Further Lengermann and Niebrugge explain how the women came to be erased from the history of sociology and identify the political and intellectual currents that now make their recovery both possible and important The volume focuses on 15 women in eight chapters Each chapter begins with a biographical sketch situating each thinkers ideas in a historical social and cultural context Next the authors analyze the womans theory summarizing its underlying assumptions explicating its major themes and introducing key vocabulary. The chapter concludes with excerpts from the original texts of the women founders All the theories discussed in this text share a moral commitment to the idea that sociology should and could work for the alleviation of socially produced human pain The ethical duty of the sociologist is to seek sound scientific knowledge to refuse to make the knowledge an end in itself to speak for the disempowered to advocate social reform and to never forget that the appropriate relationship between researcher and subject is one of mutuality Sex Differences in Neurology and Psychiatry, 2020-09-30 Sex Differences in Neurology and Psychiatry Volume 175 addresses this important issue by viewing major neurological and psychiatric conditions through the lens of sexual dimorphism providing an entirely novel approach to understanding vulnerability factors as well as potential new treatment strategies in several common neuropsychiatric disorders The handbook comprises four major sections 1 Introduction to sex differences in neuroanatomy and neurophysiology 2 Description of the impact of genetic epigenetic sex hormonal and other environmental effects on cerebral sex dimorphism 3 Review of sex differences in neurologic disorders and 4 Review of sex differences in psychiatric disorders Explores sex differences in human neuroanatomy and

neurophysiology Offers a pathway toward a gender specific treatment of neurologic and psychiatric disorders Provides an overview of the genetics of sex hormones human brain structure and function as well as the epigenetics environment and The Descent of Man, and Selection in Relation to Sex Charles Darwin, 1882 Battlearound: Sports Michael Atkinson, 2008-12-30 Mega events like the Olympics the World Cup of soccer the World Series of baseball cycling s Tour de France and the Super Bowl draw our attention to the deep cultural significance of sport and its role in fostering social bonds Yet when it comes to sport there is no shortage of debate stereotypes regarding sexuality race gender and children have been hotly contested by critics for over 40 years Even today sport is one of the very few socially accepted sites of violence intense competition and controlled forms of social disorder Battleground Sports presents the 100 most contentious public and private controversies of the sports world Highlighted throughout are debates surrounding ethnicity gender sexuality and social identity sports fan behavior as well as the role of governments and corporations Engaging and accessible to a wide variety of readers this fascinating reference illustrates how sports controversies reflect the historically enduring and changing nature of our broader cultures and the social battles we engage on a day to day basis surrounding the struggles for equality debates about social violence the ethics of competition the politics of civic life the creation of global communities and the State's role in protecting citizens Entries contain an array of thoughtful perspectives on historic and current controversies and allow readers to formulate their own conclusions Enhanced with a timeline a thorough guide of print and electronic resources for high school and undergraduate student research this one stop reference goes beyond the newspaper headlines to provide readers with a guide map for understanding what sport controversies teach us about our culture and ourselves Pathways to Sexual Aggression Jean Proulx, Eric Beauregard, Patrick Lussier, Benoit Leclerc, 2014-03-14 Most people who read an article in the newspaper about the brutal rape of a woman by a stranger or the long standing sexual abuse of a young boy by his step father have a strong visceral reaction which is a mix of anger fear and incomprehension Apart from these aversive reactions several questions also come to people s minds Was this offender crazy or sexually obsessed What is the purpose of such outrageous acts To answer these questions the authors of this book review theoretical and empirical models of the processes that lead men to sexually assault children or women whilst also presenting new results and models on this topic In particular this book focuses on empirical analyses of the pathways of six types of sexual aggressors three of which marital rapists hebephilic sexual aggressors and polymorphic sexual aggressors have never been investigated before Drawing on a large dataset on the offending processes of sexual aggressors this book analyzes the influence of personality factors and lifestyle factors on offending pathways and brings together key researchers in the field of sexual aggression This book will be of interest to psychologists psychiatrists criminologists and social workers involved in the study assessment and treatment of sexual aggressors In addition this information will be crucial for practitioners involved in the follow up of these offenders in the community and will interest researchers and graduate students in the field of sexual

aggression The Evolution of Sex Determination Leo Beukeboom, Nicolas Perrin, 2014-06-12 Sexual reproduction is a fundamental aspect of life It is defined by the occurrence of meiosis and the fusion of two gametes of different sexes or mating types Sex determination mechanisms are responsible for the sexual fate and development of sexual characteristics in an organism be it a unicellular alga a plant or an animal In many cases sex determination is genetic males and females have different alleles or different genes that specify their sexual morphology In animals this is often accompanied by chromosomal differences In other cases sex may be determined by environmental e g temperature or social variables e g the size of an organism relative to other members of its population Surprisingly sex determination mechanisms are not evolutionarily conserved but are bewilderingly diverse and appear to have had rapid turnover rates during evolution Evolutionary biologists continue to seek a solution to this conundrum What drives the surprising dynamics of such a fundamental process that always leads to the same outcome two sex types male and female The answer is complex but the ongoing genomic revolution has already greatly increased our knowledge of sex determination systems and sex chromosomes in recent years This novel book presents and synthesizes our current understanding and clearly shows that sex determination evolution will remain a dynamic field of future research The Evolution of Sex Determination is an advanced research level text suitable for graduate students and researchers in genetics developmental biology and evolution Compulsory Sickness Insurance International Labour Office, 1927

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