



Origins of Sex

THREE BILLION YEARS OF
GENETIC RECOMBINATION

Lynn Margulis & Dorion Sagan



Origins Of Sex Three Billion Years Of Genetic Recombination Bio Origins Series

J Daniel Andersson



Origins Of Sex Three Billion Years Of Genetic Recombination Bio Origins Series:

Origins of Sex Lynn Margulis, Dorion Sagan, 1990-01-01 A fascinating and detailed examination of the evolution and occasional devolution of sexuality in microorganisms and more complex forms of life Margulis and Sagan trace sex from its inauspicious beginnings in bacteria threatened by ultraviolet radiation to its intimate relation with the origin of mitotic division of nucleated cells The origin of meiotic sex through cannibalism followed by centriole reproductive tardiness and the connection of cell symbiosis to sex and differentiation are explored The authors have not only given us a new and exiting scenario for the evolution of sex but have also provided us with critical ways in which we can test their hypotheses This is a stimulating book that is sure to invoke criticism and discussion I strongly recommend it Symbiosis The book is well organized and well written leading the reader from one thought to another almost effortlessly Background information is presented to aid those of us who are not experts in this field and a glossary is appended The book could be used at all levels of study from interested undergraduates in general biology though postdoctoral students of genetics and evolution I recommend this thought provoking book to you for both your enjoyment and your enlightenment Richard W Cheney Jr Journal of College Science Teaching This book undoubtedly controversial is a thoughtful and original contribution to an important aspect of cellular biology John Langridge

National Library of Medicine Current Catalog National Library of Medicine (U.S.),
Beginnings of Cellular Life Harold J. Morowitz, 1993-01-01 Develops a model of the origin of life in which cells originate first proteins follow and genes evolve last which is supported by evidence mustered from biology biochemistry and biophysics This work explores the origins of life and is for anyone who has ever thought seriously about the origin of life

How Life Increases Biodiversity David Seaborg, 2021-09-09 This book argues that organisms and their interactions create and maximize biodiversity The evidence for this autocatalytic hypothesis has been collated and integrated into this provocative argument Natural selection favors the increase of biodiversity Organisms can be causative agents contributing to major macroevolutionary transitions Species tend to have a net positive effect on biodiversity All species are ecosystem engineers Mutualism and commensalism are common and fundamental and these coevolved interspecific interactions frequently generate enormous increases in biodiversity Competition generally does not decrease biodiversity and often leads to evolutionary innovation Plants are ecosystem engineers that have made Earth more favorable to life and increased diversity in many ways Herbivores and predators increase the diversity of the species they consume and are necessary for ecosystem stability Decomposers are essential to ecosystem health All these examples illustrate the focus of this book that organisms and their interactions stimulate biodiversity and ecosystems maximize it Key Features Describes a hypothesis that life itself generates higher biodiversity Suggests a highly modified version of the established paradigm in population biology and evolution Asserts that all species are ecosystem engineers with a net positive effect on biodiversity and their ecosystems Suggests that mutualism and commensalism are the rule Presents a novel view likely to elicit deeper discussions of

biodiversity Related Titles Dewdney A K Stochastic Communities A Mathematical Theory of Biodiversity ISBN 978 1 138 19702 2 Curry G B and C J Humphries eds Biodiversity Databases Techniques Politics and Applications ISBN 978 0 367 38916 1 Pullaiah T ed Global Biodiversity 4 Volume Set ISBN 978 1 77188 751 9 Vegetal Sex Stella Sandford, 2022-10-06 This book introduces the reader to the exciting new field of plant philosophy and takes it in a new direction to ask what does it mean to say that plants are sexed Do male and female really mean the same when applied to humans trees fungi and algae Are the zoological categories of sex really adequate for understanding the uniquely dibiontic life cycle of plants Vegetal Sex addresses these questions through a detailed analysis of major moments in the history of plant sex from Aristotle to the modern day Tracing the transformations in the analogy between animals and plants that characterize this history it shows how the analogy still functions in contemporary botany and asks what would a non zoocentric plant centred philosophy of vegetal sex be like By showing how philosophy and botany have been and still are inextricably entwined Vegetal Sex allows us to think vegetal being and perhaps to recognize the vegetal in us all **The Semiotic Web 1991: Biosemiotics** Thomas A. Sebeok, Jean Umiker-Sebeok, 2020-09-23 No detailed description available for The Semiotic Web 1991 Biosemiotics
Im/partial Science Bonnie Spanier, 1995 Best known today for her nature writing and southwestern cultural studies Mary Hunter Austin 1868 1934 has been increasingly recognized for her outspoken essays on feminist themes This volume collects her nonfiction journalism with each essay prefaced by brief introductory remarks by the editor Annotation copyright by Book News Inc Portland OR **The Exquisite Corpse of Asian America** Rachel C. Lee, 2014-12-05 Winner of the 2016 Association for Asian American Studies Award for Best Book in Cultural Studies The Exquisite Corpse of Asian America addresses this central question if race has been settled as a legal or social construction and not as biological fact why do Asian American artists authors and performers continue to scrutinize their body parts Engaging novels poetry theater and new media from both the U S and internationally such as Kazuo Ishiguro s science fiction novel Never Let Me Go or Ruth Ozeki s My Year of Meats and exhibits like that of Body Worlds in which many of the bodies on display originated from Chinese prisons Rachel C Lee teases out the preoccupation with human fragments and posthuman ecologies in the context of Asian American cultural production and theory She unpacks how the designation of Asian American itself is a mental construct that is paradoxically linked to the biological body Through chapters that each use a body part as springboard for reading Asian American texts Lee inaugurates a new avenue of research on biosociality and biopolitics within Asian American criticism focused on the literary and cultural understandings of pastoral governmentality the divergent scales of embodiment and the queer cross species being of racial subjects She establishes an intellectual alliance and methodological synergy between Asian American studies and Science and Technology Studies STS biocultures medical humanities and femiqueer approaches to family formation carework affect and ethics In pursuing an Asian Americanist critique concerned with speculative and real changes to human biologies she both produces innovation within the field and demonstrates the urgency

of that critique to other disciplines **Recent Publications in Natural History** ,1987 **Cell to Cell Signals in Plant, Animal and Microbial Symbiosis** Silvano Scannerini,David Smith,Paola Bonfante-Fasolo,Vivienne Gianinazzi-Pearson,2013-06-29 In symbiosis different organisms have to recognize each other and exchange material and information While the functional morphology of symbiont cells has extensively been studied little attention has been paid to mutual interactions and cell to cell signals The main topic of the book is the comparison and discussion of the short distance signals triggering mutualism in animal and plant cells Thus it provides a the basis for a better understanding of various aspects of cell compatibility b standardisation of a common vocabulary for animal and plant symbiotic biology c optimization of experimental techniques for studying signals in symbiosis The results show the differences and the general principles in the signalling processes of plant animal and bacterial cells **Cancer, Complexity, Computation** Igor Balaz,Andrew Adamatzky,2022-08-11 This book presents unique compendium of groundbreaking ideas where scientists from many different backgrounds are united in their interest in interdisciplinary approaches towards origins and development of cancers innovative ways of searching for cancer treatment and the role of cancer in the evolution Chapters give an unequivocal slice of all areas that relate to a quest for understanding cancer and its origin as many fold nonlinear system complexity of the cancer developments a search for cancer treatment using artificial intelligence and evolutionary optimisation novel modelling techniques molecular origin of cancer the role of cancer in evolution of species interpretation of cancer in terms of artificial life and artificial immune systems swarm intelligence cellular automata computational systems biology genetic networks cellular computing validation through in vitro vivo tumour models and tumour on chip devices The book is an inspiring blend of theoretical and experimental results concepts and paradigms Distinctive features The book advances widely popular topics of cancer origin treatment and understanding of its progress The book is comprised of unique chapters written by world top experts in theoretical and applied oncology complexity theory mathematics computer science The book illustrates attractive examples of mathematical and computer models and experimental setups *Material Feminisms* Stacy Alaimo,Susan Hekman,2008-01-02 Harnessing the energy of provocative theories generated by recent understandings of the human body the natural world and the material world *Material Feminisms* presents an entirely new way for feminists to conceive of the question of materiality In lively and timely essays an international group of feminist thinkers challenges the assumptions and norms that have previously defined studies about the body These wide ranging essays grapple with topics such as the material reality of race the significance of sexual difference the impact of disability experience and the complex interaction between nature and culture in traumatic events such as Hurricane Katrina By insisting on the importance of materiality this volume breaks new ground in philosophy feminist theory cultural studies science studies and other fields where the body and nature collide *Aging is a Group-Selected Adaptation* Joshua Mitteldorf,2017-02-03 Although books exist on the evolution of aging this is the first book written from the perspective of aging as an adaptive program It offers an insight into the

implications of research on aging genetics The author proposes the Demographic Theory of Senescence whereby aging has been affirmatively selected because it levels the death rate over time helping stabilize population dynamics and prevent extinctions

Idealization XII: Correcting the Model ,2016-08-01 The principal task of the book series Poznan Studies in the Philosophy of the Sciences and the Humanities is to promote those developments in philosophy that respect the tradition of great philosophical ideas on the one hand and the manner of philosophical thinking introduced by analytical philosophy on the other The aim is to contribute to practicing philosophy as deep as Marxism and as caring about justification as positivism

Queer Feminist Science Studies Cyd Cipolla,Kristina Gupta,David A. Rubin,Angela Willey,2017-12-01 Queer Feminist Science Studies takes a transnational trans species and intersectional approach to this cutting edge area of inquiry between women s gender and sexuality studies and science and technology studies STS The essays here queer or denaturalize and make strange ideas that are taken for granted in both areas of study Reimagining the meanings of and relations among queer and feminist theories and a wide range of scientific disciplines contributors foster new critical and creative knowledge projects that attend to shifting and uneven operations of power privilege and dispossession while also highlighting potentialities for uncertainty subversion transformation and play Theoretically and rhetorically powerful these essays also take seriously the materiality of natural objects and phenomena bones voles chromosomes medical records and more all help substantiate answers to questions such as What is sex How are race gender sexuality and other systems of differences co constituted The foundational essays and new writings collected here offer a generative resource for students and scholars alike demonstrating the ingenuity and dynamism of queer feminist scholarship

Molecular Feminisms Deboleena Roy,2018-11-10 Should feminists clone What do neurons think about How can we learn from bacterial writing These provocative questions have haunted neuroscientist and molecular biologist Deboleena Roy since her early days of research when she was conducting experiments on an in vitro cell line using molecular biology techniques An expert natural scientist as well as an intrepid feminist theorist Roy takes seriously the expressive capabilities of biological objects such as bacteria and other human nonhuman organic and inorganic actants in order to better understand processes of becoming She also suggests that renewed interest in matter and materiality in feminist theory must be accompanied by new feminist approaches that work with the everyday nitty gritty research methods and techniques in the natural sciences By practicing science as feminism at the lab bench Roy creates an interdisciplinary conversation between molecular biology Deleuzian philosophies science and technology studies feminist theory posthumanism and postcolonial and decolonial studies In Molecular Feminisms she brings insights from feminist and cultural theory together with lessons learned from the capabilities and techniques of bacteria subcloning and synthetic biology to offer tools for how we might approach nature anew In the process she demonstrates that learning how to see the world around us is also always about learning how to encounter that world

CONVIVIA FILTH Vera Bühlmann ,Riccardo M. Villa,Cris Argüelles ,2024-09-05 Convivia is a journal that is interested in

thinking what architectonics is or could be in the twenty first century Pre specific to architecture architectonics deals with the real in an abstract yet edifying manner Under architectonics the indeterminacy brought by contemporary science is assumed as a liberation from ontological and epistemological principles and welcomed as a fortunate occasion to understand and embrace the stating of any principle as an art in itself autonomous yet not automatic or autarkic Architectonic deals with the real in terms of a communicational physics through articulations that are concrete yet reasoned in abstractive and projective manners The journal aims to set the table for a series of banquets of convivia in which courses do not respond to mere needs or inconsequential delights of consumption We focus on architectonic alloys of necessities and contingencies necessities are bounded by contingencies and contingencies are engendered through figuring out what is necessary Convivia s interest is to make cases

On Semiotic Modeling Myrdene Anderson, Floyd Merrell, 2014-01-02 No detailed description available for On Semiotic Modeling

Advances in Genetics, 1990-05-23 Advances in Genetics Artificial Earth J Daniel Andersson, 2023-10-24 Artificial Earth A Genealogy of Planetary Technicity offers an intellectual history of humanity as a geological force focusing on a prevalent contradiction in the Anthropocene discourse on global environmental change on the one hand it has been argued that there are hardly any pristine environments anymore to the degree that the concept of nature has lost its meaning while on the other that anthropogenic environmental change has become so prevailing that it ought to be conceived of as a force of nature in the literal sense of the expression Artificial Earth argues that to fully grasp the stakes of this discourse we need not only understand the contemporary scientific and technological transformations behind the Anthropocene but also explore the history of an ontological concern tied up with it In order to do so Artificial Earth examines reflections on the ontological dualism between nature and artifice within the history of earth science from the late eighteenth century onwards Paying particular attention to its consequences for how human subjectivity has been conceptualized in the Anthropocene it then enrolls these resources in an effort to problematize attempts since the 1980s to formalize earth science in systems theoretical terminology In sum the aim is to investigate the historical conditions for the possibility of conceiving human artifice as an integral part of the earth s terrestrial environment with the conviction that such an investigation may assist in resolving the aforementioned contradiction or at least to understand it better by tracing its historical lineage J Daniel Andersson is a post doctoral researcher at the Department for Thematic Studies Linköping University His research interests lie at the intersection between the technical cultures political imaginaries and historical processes that have shaped the ways in which the global environment has been understood and valued A general fascination with how concepts and discursive vocabularies become solidified in scientific modes of organization has consistently informed his theoretical and methodological approaches He has previously written about for instance the relationship between future orientation and valuation in integrated assessment models climate engineering as a sociotechnical imaginary and the intellectual history of risk management in global change science His writing has appeared in journals such as

Environment Planning Anthropocenes and Cosmos History

Enjoying the Beat of Phrase: An Mental Symphony within **Origins Of Sex Three Billion Years Of Genetic Recombination Bio Origins Series**

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