



From Gaia to Selfish Genes

Selected Writings in the Life Sciences

edited by **Connie Barlow**

From Gaia To Selfish Genes

Margaret J. Wheatley



From Gaia To Selfish Genes:

From Gaia to Selfish Genes Connie Barlow, 1992-07-08 *From Gaia to Selfish Genes* is a different kind of anthology. Lively excerpts from the popular writings of leading theorists in the life sciences blend in a seamless presentation of the controversies and bold ideas driving contemporary biological research. Selections span scales from the biosphere to the cell and DNA and disciplines from global ecology to behavior and genetics and also reveals the links between biology and philosophy. They plunge the reader into debates about heredity and environment, competition and cooperation, randomness and determinism and the meaning of individuality. *From Gaia to Selfish Genes* conveys the technical and conceptual roots of current scientific theories beginning with the planetary perspective of James Lovelock and Lynn Margulis and concluding with the reductionist views of Richard Dawkins and E. O. Wilson. The contrasting worldviews coupled with excerpts drawn from critics of each theory encourage readers to examine their own presuppositions. In addition to the scientists' portrayal of the Gaia hypothesis, symbiosis in cell evolution, hierarchy theory, systems theory, game theory, sociobiology and the selfish gene, the text is rich in autobiographical passages and biographies. By presenting the human side of research, *From Gaia to Selfish Genes* reveals the social context and interactions, the motivations and range of cognitive styles that comprise the scientific endeavor. Concluding essays written expressly for this book by Lynn Margulis, John Maynard Smith, W. Ford Doolittle and others underscore the importance of such diversity. Connie Barlow is a science writer currently living in New York City. The scientists include Robert Axelrod, Richard D. Alexander, Ludwig von Bertalanffy, Leo W. Buss, Francis Crick, Richard Dawkins, W. Ford Doolittle, Douglas Hofstadter, Julian Huxley, Leon J. Kamin, Philip Kitcher, Richard C. Lewontin, James Lovelock, Lynn Margulis, Ashley Montagu, Leslie Orgel, Steven Rose, Carmen Sapienza, John Maynard Smith, Lewis Thomas, Gerald Weinberg, E. O. Wilson, Robert Wright. The science writers include Lawrence, Joseph, Arthur Koestler, Francesca Lyman, Jeanne McDermott, Richard Monastersky, Dorion Sagan. [PaGaian Cosmology](#) Glenys Livingstone, 2005. *PaGaian Cosmology* brings together a religious practice of seasonal ritual based in a contemporary scientific sense of the cosmos and female imagery for the Sacred. The author situates this original synthesis in her context of being female and white European transplanted to the Southern Hemisphere. Her sense of alienation from her place, which is personal, cultural and cosmic, fires a cosmology that re-stories Goddess metaphor of Virgin Mother Crone as a pattern of Creativity which unfolds the cosmos manifests in Earth's life and may be known intimately. *PaGaian Cosmology* is an ecospirituality grounded in indigenous Western religious celebration of the Earth-Sun annual cycle. By linking to story of the unfolding universe, this practice can be deepened and a sense of the Triple Goddess central to the cycle and known in ancient cultures developed as a dynamic innate to all being. The ritual scripts and the process of ritual events presented here may be a journey into self-knowledge through personal, communal and ecological story. The self to be known is one that is integral with place. *PaGaian Cosmology* may be used as a resource for individuals or groups seeking new forms of devotional expression and an Earth-based pathway to wisdom within.

A Sense of Wonder Towards Nature Haydn Washington, 2018-08-06 Environmental scientist and writer Haydn

Washington argues that we will not solve the environmental crisis unless we change our worldview and ethics and to do so we must rejuvenate our sense of wonder at nature This book focuses on humanity's relation with nature and the sense of wonder and belonging common to indigenous cultures and children everywhere Drawing on events in the author's own four decades working to protect wild places and the current literature on wonder it examines what a sense of wonder is what it has been called in different cultures and our high points of wonder at nature It also looks at the Great Divide in worldview between anthropocentrism and ecocentrism and considers the problem of anthropocentric theory in academia arguing that the focus should instead be on harmony with nature The book concludes with an examination of why wonder has become buried in Western society and considers ways in which it can be revived including rituals and education It also considers how wonder helps humanity to become whole The final chapter presents the road back to wonder and how wonder towards nature can be restored in Western society This book will be of great interest to environmental scientists conservation biologists environmental philosophers and ecological ethicists as well as environmentalists educators eco psychologists and students looking at sustainability deep ecology and environmental philosophy and ethics

Godless Paganism: Voices of Non-Theistic Pagans John Halstead, 2016-03-18 Even in pagan antiquity there were those who while participating in the community's religious life did not believe in literal gods In the centuries that followed the Christian domination of the West the epithet godless pagan was leveled at a wide variety of people In the 1960s there emerged a community of people who sought to reclaim the name pagan from its history of opprobrium These Neo Pagans were interested in nature spirituality and polytheism and identified with the misunderstood and persecuted pagans of antiquity While many Pagans today believe in literal gods there are a growing number of Pagans who are godless Today the diverse assemblage of spiritual paths known as Paganism includes atheist Pagans or Atheopagans Humanistic and Naturalistic Pagans Buddhists Pagans animists pantheists Gaians and other non theistic Pagans Here their voices are gathered together to share what it means to be Pagan and godless

Kabbalah and Ecology David Mevorach Seidenberg, 2015-04-06 Kabbalah and Ecology resets the conversation about ecology and the Abrahamic traditions David Mevorach Seidenberg challenges the anthropocentric reading of the Torah showing that a radically different orientation to the more than human world of nature leads to a more accurate interpretation of scripture rabbinic texts Maimonides and Kabbalah

A New Theory of Human Rights Alison Assiter, 2021-03-01 This book offers a new materialist thesis that focuses on the dynamic biological core of humans shared with other animals and the rest of the natural world to develop a radical theory of human rights It therefore makes a unique contribution to literature and to academic and societal debates both on new materialisms and on human rights Many on the political far right deride the concept of a human right This has occurred in tandem with a growing contempt for the rule of law and for obligations to protect land or the environment to recognize the rights of minorities or even to respect the various mechanisms of

democracy On the other hand contemporary left wing inspired literature has also rejected the concept of a human right as Enlightenment inspired and western This has gone hand in hand with a contestation of essentialism and universalism These theoretical positions have been variously critiqued as racist sexist as well as Eurocentric Drawing on metaphysics and ethics with protagonists drawn from traditions across analytic and continental philosophy and feminist theory Assiter challenges these critics to form a distinctive new materialist position Most people defenders and critics take for granted that the concept of human rights and the universal view of humanity derive from the European Enlightenment However this book develops a different story of its origin from the earlier period of both Aristotle and the Zoroastrian Persian Empire and locates the concept of a right partly in our biological core yet challenges the assumption that this is constructed by language of any kind specifically including scientific discourse

Ethno-ornithology Sonia C. Tidemann, Andrew Gosler, 2012-08-06 An African proverb states that when a knowledgeable old person dies a whole library disappears In that light this book presents knowledge that is new or has not been readily available until now because it has not previously been captured or reported by Indigenous people Indigenous knowledge that embraces ornithology takes in whole social dimensions that are inter linked with environmental ethos conservation and management for sustainability In contrast western approaches have tended to reduce knowledge to elemental and material references This book also looks at the significance of Indigenous knowledge of birds and their cultural significance and how these can assist in framing research methods of western scientists working in related areas Publisher's description

Leadership and the New Science Margaret J. Wheatley, 2010-06-21 A bestseller more than 300 000 copies sold translated into seventeen languages and featured in the Los Angeles Times Washington Post Miami Herald Harvard Business Review Fast Company and Fortune Shows how discoveries in quantum physics biology and chaos theory enable us to deal successfully with change and uncertainty in our organizations and our lives Includes a new chapter on how the new sciences can help us understand and cope with some of the major social challenges of our times We live in a time of chaos rich in potential for new possibilities A new world is being born We need new ideas new ways of seeing and new relationships to help us now New science the new discoveries in biology chaos theory and quantum physics that are changing our understanding of how the world works offers this guidance It describes a world where chaos is natural where order exists for free It displays the intricate webs of cooperation that connect us It assures us that life seeks order but uses messes to get there Leadership and the New Science is the bestselling most acclaimed and most influential guide to applying the new science to organizations and management In it Wheatley describes how the new science radically alters our understanding of the world and how it can teach us to live and work well together in these chaotic times It will teach you how to move with greater certainty and easier grace into the new forms of organizations and communities that are taking shape

The Making of Indian Diplomacy Deep K. Datta-Ray, 2015-05-21 Diplomacy is conventionally understood as an authentic European invention which was internationalised during colonialism For Indians

the moment of colonial liberation was a false dawn because the colonised had internalised a European logic and performed European practices Implicit in such a reading is the enduring centrality of Europe to understanding Indian diplomacy This Eurocentric discourse renders two possibilities impossible that diplomacy may have Indian origins and that they offer untheorised potentialities Abandoning this Eurocentric model of diplomacy Deep Datta Ray recognises the legitimacy of independent Indian diplomacy and brings new practices He creates a conceptual space for Indian diplomacy to exist forefronting civilisational analysis and its focus on continuities but refraining from devaluing transformational change

Beyond Environmentalism Jeffrey E. Foss, 2009-02-04 This one of a kind book provides thoughtful insight into the current relationship between humankind and the environment *Beyond Environmentalism* is the first book of its kind to present a timely and relevant analysis of environmentalism The author's decades of experience as a philosopher of science allow him to critically comprehend scientific issues and to develop and explain sound ethical policies in response to them The result is a volume that builds a philosophy of nature and helps the reader assess humankind's relationship with and impact on the world around us This innovative book discusses the inconsistencies both scientific and philosophical of popular environmentalism and sheds new perspectives on the issues causes and debates that embrace society today The goal is not to settle environmental issues once and for all but rather to provide the basis for more reasoned scientific and productive debates The need for a new philosophy of nature is explored through methodological discussion of several topics including The rise and fall of scientific proof Nature in religion romance and human values Humankind's responsibility to the environment The value of freedom Kinship among species Numerous case studies throughout the book delve into global warming the sixth extinction the precautionary principle pollution and other popular issues within environmentalism Feature boxes guide the reader through complex topics such as eco sabotage the Gaia hypothesis and the urban heat island effect while vivid illustrations demonstrate scientific data theories and philosophical arguments in a reader friendly manner With its balanced approach to provocative issues *Beyond Environmentalism* serves as an excellent thought provoking supplement for courses on environmental studies at the undergraduate and graduate levels It is also an interesting and accessible read for anyone with a general interest in environmental issues

Physical and Biological Bases of Life Stability Victor G.

Gorshkov, 2012-12-06 It is well known that the biochemical processes of life on Earth are maintained by the external solar radiation and can be reduced to the synthesis and decomposition of organic matter Man has added the synthesis and decomposition of various industrial products to these natural processes On one hand biological synthesis may only be conducted within the rather narrow margins of parameters of the environment including temperature humidity concentrations of the inorganic substances used by life such as carbon dioxide oxygen etc On the other hand the physical and chemical composition of the environment suffers significant changes during those processes of synthesis and decomposition The maximum possible rate of such change due to the activity of living beings can exceed the average geophysical rates of

change of the environment due to activity of terrestrial depths and cosmic processes by a factor often thousand In the absence of a rigid correlation between the biological synthesis and decomposition the environment would be greatly disturbed within a decade and driven into a state unfit for life A lifeless Earth however would suffer similar changes only after about a hundred thousand years Preservation of the existing state of the environment is only possible with strict equality between the rates of biological synthesis and decomposition that is when the biochemical cycles of matter are virtually closed

Thank God for Evolution Michael Dowd, 2008-06-19 Few issues have revealed deeper divisions in our society than the debate between creationism and evolution between religion and science Yet from the fray Reverend Michael Dowd has emerged as a reconciler finding faith strengthened by the power of reason With evidence from contemporary astrophysics geology biology anthropology and evolutionary psychology *Thank God for Evolution* lays out a compelling argument for how religion and science can be mutually enriching forces in our lives Praised by Nobel laureates in the scientific community and religious leaders alike *Thank God for Evolution* will expand the horizon of what is possible for self for relationships and for our world

Leadership and the New Science Margaret Wheatley, 2011-08-11 This pioneering work shows how revolutionary discoveries in quantum physics chaos theory and biology provide powerful insights for transforming how we organize work people and life Margaret Wheatley pushes our thinking about people and organizations to a new level

Ken Blanchard Color photos *Metapatterns Across Space, Time, and Mind* Tyler Volk, 1995 Embracing nature and culture this book seeks out the grand scale patterns that help explain the functioning of our universe Beginning with the archetypal patterns of space Volk turns to the arrows breaks and cycles that infuse the workings of time Illustrating his metapatterns with a series of collages Volk offers an exciting new look at science and the imagination

Romance Revisited Lynne Pearce, Jackie Stacey, 1995-10 After decades of feminism and deconstruction romance remains firmly in place as a central preoccupation in the lives of most women Divorce rates skyrocket the traditional family is challenged from all sides and yet romance seems indestructible In terms of its cultural representation the popularity of romance also appears unchallenged Popular fiction Hollywood cinema television soap operas and the media in general all display a seemingly bottomless appetite for romantic subjects The trappings of classic romance white weddings love songs Valentine's Day are as commercially viable as ever In this anthology of original essays romance is revisited from a wide spectrum of perspectives not just in fiction and film but in a whole range of cultural phenomena Essays range over such issues as Valentine's Day interracial relationships medieval erotic visions and modern romance fiction the relationship between the lesbian poet H D and Bryher the pervasive whiteness of romantic desire lesbian erotica in the age of AIDS and the public romance of Charles and Diana

Genesis Jan Sapp, 2003-09-11 *Genesis The Evolution of Biology* presents a history of the past two centuries of biology suitable for use in courses but of interest more broadly to evolutionary biologists geneticists and biomedical scientists as well as general readers interested in the history of science The book covers the early evolutionary biologists Lamarck Cuvier Darwin and

Wallace through Mayr and the neodarwinian synthesis in much the same way as other histories of evolution have done bringing in also the social implications the struggles with our religious understanding and the interweaving of genetics into evolutionary theory What is novel about Sapp's account is a real integration of the cytological tradition from Schwann Boveri and the other early cell biologists and embryologists and the coverage of symbiosis microbial evolutionary phylogenies and the new understanding of the diversification of life coming from comparative analyses of complete microbial genomes The book is a history of theories about evolution genes and organisms from Lamarck and Darwin to the present day This is the first book on the general history of evolutionary biology to include the history of research and theories about symbiosis in evolution and first to include research on microbial evolution which were excluded from the classical neo Darwinian synthesis Bacterial evolution and symbiosis in evolution are also excluded from virtually every book on the history of biology

Death of Life Stanley Shostak, 2016-07-27 The Death of Life dissects biology's claim to be the Cinderella science that rose above its station Early attempts to study life through observation experiment and theory are exposed as the skeleton of ideas for controlling life ideas which were only fleshed out by the biotech and genomic industries Physicists and chemists turned biologists in alliance with biology's own eugenicists are shown to have abandoned the study of life and suppressed poststructuralist approaches ranging from neoLamarckism to biogeological Gaia theory

Dystopias and Utopias on Earth and Beyond Douglas A. Vakoch, 2021-04-29 Caught as we are in a grave climate crisis that seems more irreversible with every passing year our literary portrayals of the future often feature the dystopian collapse of the world as we know it Science fiction explores how we got here while pointing toward a more hopeful path forward From an ecofeminist perspective a core cause of our current ecological catastrophe is the patriarchal domination of nature playing out in parallel with the oppression of women As an alternative to dystopian futures that seem increasingly inevitable ecofeminist science fiction helps us conjure utopias that promote environmental sustainability based on more egalitarian human relationships Dystopias and Utopias on Earth and Beyond Feminist Ecocriticism of Science Fiction explores the fictional worlds of such canonical novelists as Margaret Atwood Octavia Butler Ursula K Le Guin Doris Lessing and Joan Slonczewski as well as those of lesser known science fiction writers as they collectively probe humanity's greatest existential threats Contributors from five continents provide compelling analyses of far future dystopias on Earth that are all too easy to imagine becoming reality if humankind's current trajectory continues as well as provocative insights into science fiction utopias set on idyllic planets orbiting distant stars which offer liberatory alternatives that might someday be actualized in the real world By examining the links between the destruction of the environment and the domination of women Dystopias and Utopias on Earth and Beyond provides the tools to counteract those intertwined oppressions helping create a foundation for a truly habitable world

The Sacred Depths of Nature Ursula Goodenough, 1998-10-29 For many of us the great scientific discoveries of the modern age the Big Bang evolution quantum physics relativity point to an existence that is bleak devoid of meaning pointless But in

The Sacred Depths of Nature eminent biologist Ursula Goodenough shows us that the scientific world view need not be a source of despair Indeed it can be a wellspring of solace and hope This eloquent volume reconciles the modern scientific understanding of reality with our timeless spiritual yearnings for reverence and continuity Looking at topics such as evolution emotions sexuality and death Goodenough writes with rich uncluttered detail about the workings of nature in general and of living creatures in particular Her luminous clarity makes it possible for even non scientists to appreciate that the origins of life and the universe are no less meaningful because of our increasingly scientific understanding of them At the end of each chapter Goodenough s spiritual reflections respond to the complexity of nature with vibrant emotional intensity and a sense of reverent wonder A beautifully written celebration of molecular biology with meditations on the spiritual and religious meaning that can be found at the heart of science this volume makes an important contribution to the ongoing dialog between science and religion This book will engage anyone who was ever mesmerized or terrified by the mysteries of existence

A Legacy for Living Systems Jesper Hoffmeyer, 2008-02-01 Gregory Bateson s contribution to 20th century thinking has appealed to scholars from a wide range of fields dealing in one way or another with aspects of communication and epistemology A number of his insights were taken up and developed further in anthropology psychology evolutionary biology and communication theory But the large trans disciplinary synthesis that in his own mind was his major contribution to science received little attention from the mainstream scientific communities This book represents a major attempt to revise this deficiency Scholars from ecology biochemistry evolutionary biology cognitive science anthropology and philosophy discuss how Bateson s thinking might lead to a fruitful reframing of central problems in modern science Most important perhaps Bateson s bioanthropology is shown to play a key role in developing the set of ideas explored in the new field of biosemiotics The idea that organismic life is indeed basically semiotic or communicative lies at the heart of the biosemiotic approach to the study of life The only book of its kind this volume provides a key resource for the quickly growing substratum of scholars in the biosciences philosophy and medicine who are seeking an elegant new approach to exploring highly complex systems

Whispering the Strategies of Language: An Mental Quest through **From Gaia To Selfish Genes**

In a digitally-driven earth wherever monitors reign great and quick communication drowns out the subtleties of language, the profound secrets and mental subtleties concealed within phrases often move unheard. Yet, set within the pages of **From Gaia To Selfish Genes** a charming literary treasure blinking with organic thoughts, lies an extraordinary journey waiting to be undertaken. Published by a skilled wordsmith, that charming opus encourages readers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within ab muscles cloth of each and every word. Within the psychological depths with this emotional evaluation, we will embark upon a heartfelt exploration of the book is key styles, dissect its charming writing type, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

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From Gaia To Selfish Genes Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading From Gaia To Selfish Genes free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading From Gaia To Selfish Genes free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer

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