



## The Organic Codes – an introduction to semantic biology

By Marcello Barbieri\*

Cambridge: Cambridge University Press, 2003, pp 312. ISBN 0521531004

After an interval of almost two decades\*, Marcello Barbieri has released his second book on evolutionary biology. He is not only courageous but careful; two previous versions of the book have been available to a smaller circle of readers. This approach is the result of his interdisciplinary nature, for although being primarily an embryologist he is also accomplished in mathematics, molecular biology, evolutionary theory and philosophy.

In this book, Barbieri is trying to bridge the gap between several famous dichotomies, i.e. the body and mind dichotomy described by Descartes in the Seventeenth century, the dichotomy of genotype and phenotype noted in the early Twentieth century, the genomic strings and spatial structure of proteins dichotomy first broached in the mid-Twentieth century and still not fully solved, the computer hardware and software dichotomy, and the dichotomy between the present information-based theories of life and the 'vital energies' theories of the Nineteenth century.

The difficulty is that the derived properties are more complex than what produces them and the problem becomes one of building three-dimensional systems 'from incomplete information' in a process akin to *epigenesis*. The author approaches this problem by using a model inspired by procedures taken from tomography, where complex forms are generated from two-dimensional projections. The model, which Barbieri applied to biological processes, was developed by him almost three decades ago and involves 'memory matrices' (memory systems, not always well defined, but modeled as matrices) and 'conventional codes' (it is implied that all codes are conventional). This model supplements the traditional biochemical catalysis mechanisms, which are qualified as informatic, with codified mechanisms. The latter are able to give semantic meaning to organic processes.

The early evolutionary path was from a minimal cell, whose origin, and thus the origin of life, coincided with the appearance of the genetic code. The cell is defined as an autopoietic and *epigenetic* system, with at least one organic memory (the genome) and at least one organic code (the genetic code). In epigenesis, the added complexity arises through reconstruction from incomplete information, and evolution occurred by natural selection and natural conventions (the codes).

Microorganisms were the only form of life for 3 billion years. The signal transduction code was already present in prokaryotes, eukaryotes adding the splicing codes. Multicellular organisms depended on cell adhesion codes, and the proliferation of these and other codes has taken place only over the last half a billion years. It is indicated that the organization of a single cell is much more complex than the developmental processes of multicellulars and that most of the crucial and basic evolutionary innovations had already occurred in unicellular organisms.

According to Barbieri, collective or organic memories are modeled as matrices developed in discontinuous stages and dependent on their respective codes. They go from, e.g., Spemann's determination mechanisms at the cellular or tissular stages, to Cuviers body plans or von Baers patterns at embryogenesis. Following the same line of argument the author suggests that the development of language is based on a linguistic code or 'mind plan', akin to the innate universal grammar suggested by Chomsky, encompassing the nature versus nurture, and the heredity versus environment dichotomies.

Barbieri's 'memory reconstruction method' is capable of increasing the complexity of a system and also functions as an anti-chaos mechanism. The processes work in a necessarily convergent way, for integration of tissues and organs into the system of multicellular organisms, a degree of divergence being added by phylogenetic processes. Codes for the organic (epigenetic) memory matrices can be used to reconstruct the 'real space' of the organic system, thereby reaching meaning.

Meaning becomes just the procedure through which an object can be related to another via a code. Codes are defined as conventional sets of rules that establish correspondence between two independent worlds. Information is the simple structure of signs, chemical radicals or words. These are individually arbitrary but acquiring meaning when integrated into a systemic collectivity through community laws. Meaning and semantics are always relative to the working system.

Transcription (catalyzed assembly) is only informatic, while translation is coded assembly. The codes have to be rigid enough to provide biological specificity. Barbieri assumes that the genetic code arose as a mechanism for the translation of mRNA strings. The world of RNA-derived proteins did not yet exist but came into being after the development of 'adaptors' (tRNAs), this protein

\*Romeu Cardoso Guimarães, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, 31270-901 Belo Horizonte, MG, Brazil.

# The Organic Codes An Introduction To Semantic Biology

**Alexei Sharov, Morten Tønnessen**



## **The Organic Codes An Introduction To Semantic Biology:**

The Organic Codes Marcello Barbieri, 2003 The genetic code appeared on Earth with the first cells The codes of cultural evolution arrived almost four billion years later These are the only codes that are recognized by modern biology In this book however Marcello Barbieri explains that there are many more organic codes in nature and their appearance not only took place throughout the history of life but marked the major steps of that history A code establishes a correspondence between two independent worlds and the codemaker is a third party between those worlds Therefore the cell can be thought of as a trinity of genotype phenotype and ribotype The ancestral ribotypes were the agents which gave rise to the first cells The book goes on to explain how organic codes and organic memories can be used to shed new light on the problems encountered in cell signalling epigenesis embryonic development and the evolution of language

**The organic codes. The birth of semantic biology** Marcello Barbieri, 2001 *Origins of Mind* Liz Swan, 2012-12-22 The big question of how and why mindedness evolved necessitates collaborative multidisciplinary investigation Biosemiotics provides a new conceptual space that attracts a multitude of thinkers in the biological and cognitive sciences and the humanities who recognize continuity in the biosphere from the simplest to the most complex organisms and who are united in the project of trying to account for even language and human consciousness in this comprehensive picture of life The young interdisciplinary of biosemiotics has so far by and large focused on codes signs and sign processes in the microworld a fact that reflects the field's strong representation in microbiology and embryology What philosophers of mind and cognitive scientists can contribute to the growing interdisciplinary are insights into how the biosemiotic weltanschauung applies to complex organisms like humans where such signs and sign processes constitute human society and culture

**Origin of Life via Archaea** Richard Gordon, 2024-08-26 This book surveys the models for the origin of life and presents a new model starting with shaped droplets and ending with life as polygonal Archaea it collects the most published micrographs of Archaea discovered only in 1977 which support this conclusion and thus provides the first visual survey of Archaea Origin of Life via Archaea's purpose is to add a new hypothesis on what are called shaped droplets as the starting point for flat polygonal Archaea supporting the Vesicles First hypothesis The book contains over 6000 distinct references and micrographs of 440 extant species of Archaea 41% of which exhibit polygonal phenotypes It surveys the intellectual battleground of the many ideas of the origin of life on earth chemical equilibrium autocatalysis and biotic polymers This book contains 17 chapters some coauthored on a wide range of topics on the origin of life including Archaea's origin patterns and species It shows how various aspects of the origin of life may have occurred at chemical equilibrium not requiring an energy source contrary to the general assumption For the reader's value its compendium of Archaea micrographs might also serve many other interesting questions about Archaea One chapter presents a theory for the shape of flat polygonal Archaea in terms of the energetics at the surface edges and corners of the S layer Another shows how membrane peptides may have originated The book also includes a large table of most

extant Archaea that is searchable in the electronic version It ends with a chapter on problems needing further research Audience This book will be used by astrobiologists origin of life biologists physicists of small systems geologists biochemists theoretical and vesicle chemists **The Codes of Life** Marcello Barbieri, 2007-10-26 Building on a range of disciplines from biology and anthropology to philosophy and linguistics this book draws on the expertise of leading names in the study of organic mental and cultural codes brought together by the emerging discipline of biosemiotics The book's 18 chapters present a range of experimental evidence which suggests that the genetic code was only the first in a long series of organic codes and that it has been the appearance of new codes organic mental and cultural that paved the way for the major transitions in the history of life While the existence of many organic codes has been proposed since the 1980s this volume represents the first multi authored attempt to deal with the range of codes relevant to life and to reveal the ubiquitous role of coding mechanisms in both organic and mental evolution This creates the conditions for a synthesis of biology and linguistics that finally overcomes the old divide between nature and culture The book will appeal to all those interested in the origins and evolution of life including biologists from molecular and cellular biologists to evolutionary and developmental biologists ecologists anthropologists psychologists philosophers of science linguists and researchers interested in the history of science the origins of life artificial life and intelligence and information theory and communication technology Pathways to the Origin and Evolution of Meanings in the Universe Alexei A. Sharov, George E. Mikhailovsky, 2024-03-26 Pathways to the Origin and Evolution of Meanings in the Universe The book explains why meaning is a part of the universe populated by life and how organisms generate meanings and then use them for creative transformation of the environment and themselves This book focuses on interdisciplinary research at the intersection of biology semiotics philosophy ethology information theory and the theory of evolution Such a broad approach provides a rich context for the study of organisms and other semiotic agents in their environments This methodology can be applied to robotics and artificial intelligence for developing robust adaptable learning devices In this book leading interdisciplinary scholars reveal their vision on how to integrate natural sciences with semiotics a theory of meaning making and signification Developments in biology indicate that the capacity to create and understand signs is not limited to humans or vertebrate animals but exists in all living organisms the fact that inspired the integration of biology and semiotics into biosemiotics The authors discuss the nature of semiotic agents organisms and other autonomous goal directed units meaning signs information memory evolution and consciousness Also discussed are issues including the origin of life potential meaning and its actualization top down causality in physics and biology capacity of organisms to encode their functions the strategy of organisms to combine homeostasis with direct adaptation to new life cycle phases or new environments multi level memory systems increase of freedom via enabling constraints creative modeling in evolution and learning communication in animals and humans the origin and function of language and the distribution and transfer of life in space This is the first book on biosemiotics in its global conceptual and

spatial scope Biosemiotics is presented using the language of natural sciences which supports the scientific grounding of semiotic terms Finally the cosmic dimension of life and meaning making leads to a reconsideration of ethical principles and ecological mentality here on earth and in space exploration Audience Theoretical biologists ethologists astrobiologists ecologists evolutionary biologists philosophers phenomenologists semioticians biosemioticians molecular biologists linguists system scientists and engineers

*Genome Chaos* Henry H. Heng, 2025-10-29 *Genome Chaos Rethinking Genetics Evolution and Molecular Medicine* Second Edition transports readers from Mendelian genetics to 4D genomics building a case for genes and genomes as distinct biological entities where the genome rather than individual genes defines system level inheritance and represents a clear unit of selection for macroevolution In this thought provoking text Dr Henry Heng invigorates fresh discussions in Genome Architecture Theory and helps readers reevaluate their current understanding of human genetics evolution and new pathways for advancing molecular and precision medicine In this timely new edition Dr Heng fully embraces the integration of system information with genome mediated evolutionary mechanisms and supports this framework with recent findings and growing interdisciplinary research Ten evidence based chapters discuss 4D genomics genes and genomes as distinct biological entities genome chaos and cellular macroevolution karyotype coding and fuzzy inheritance as well as an entirely novel model of evolution driven by information flow and more Brand new chapters consider the creation and maintenance of system information for complexity and biodiversity as well as modes of analyzing information based and historically contingent evolutionary framework This synthesis offers a revolutionary paradigm of evolutionary theory It also hypothesizes about how information flow matter arrangement and energy interact Bridges basic research and clinical applications providing a foundation for re examining the results of large scale omics studies and precision medicine Gathers the most pressing questions in genomics cytogenomics and evolution Proposes a novel genome and information based evolutionary theory that unites the study of physical chemical and biological mechanisms within organismal systems Contains ten evidence based chapters that discuss karyotype coding function of sex natural information self creation and evolution as platform for both innovation and conservation

*Semiotic Agency* Alexei Sharov, Morten Tønnessen, 2022-02-08 This book invites readers to embark on a journey into the world of agency encompassing humans other organisms cells intracellular molecular agents colonies populations ecological systems and artificial autonomous systems We combine mechanistic and non mechanistic approaches in the analysis of the function and evolution of organisms their subagents and multi organism systems and in this way offer a theoretical platform for integrating biosemiotics with both natural science and the humanities social sciences Agents are autonomous systems that incorporate knowledge on how to make sense of their environment and use it to achieve their goals The functions of all agents are supported by mechanisms at the lowest level however the explanatory power of mechanistic analysis is not sufficient for complex agents Non mechanistic methods rely on the goal directedness of agents whose dynamics follow self stabilized dynamic attractors The

properties of attractors depend on stable or slowly changing factors and such dependencies can be interpreted as sign relations if they are adaptive in nature Agents can replace or redirect mechanisms on demand in order to preserve their functions for performing higher level semiotic functions mechanisms are thus only means We assume that mechanism and semiosis are not mutually exclusive and that simple agents can interpret signs mechanistically This assumption allows us to extend semiotic analysis to all agents including ribosomes in cells computers and robots This book challenges established traditions in natural science and the humanities social sciences semiotics no longer appears as restricted to humans and rational thinking and biology is no longer limited to rely exclusively on mechanistic reasoning *Codes and Evolution*

Marcello Barbieri, 2024-05-09 This text builds upon the over 1500 papers published in peer reviewed journals revealing that there are more than 200 biological codes in living systems The author claims this experimental fact is bound to change biology forever This book shows how this very discovery reveals that coding is a new mechanism of life just as the discovery of electromagnetism revealed the existence of a new physical force in the universe The existence of many biological codes furthermore Barbieri argues is one of those experimental facts that have extraordinary theoretical consequences It implies that coding is not only a mechanism that constantly operates in all living systems but also a mechanism of evolution more precisely a mechanism that gave origin to the absolute novelties of the history of life This amounts to saying that evolution took place by two distinct mechanisms by natural selection and by natural conventions two mechanisms that are fundamentally different because natural selection is the result of copying and deals with information whereas natural conventions are the result of coding and deal with meaning This volume appeals to students and researchers working in the fields of semiotics philosophy biology and mathematics *Σημειωτική*, 2004 **Design and Information in Biology** J. A.

Bryant, M. W. Collins, Mark A. Atherton, 2007 Highlighted with individual contributions from eminent specialists these multiauthored volumes combine authority inspiration and state of the art knowledge Both informative and inspiring they are designed to appeal to scientists and interested laypeople alike Volume 2 complements and extends the scope of the first with the biological viewpoint being stressed Following an introductory chapter on design as understood in biology the various aspects of the biological information revolution are addressed Areas discussed include molecular structure the genome development and neural networks A section on information theory provides a link with engineering and the scope is also broadened to include the implications of motion in nature and engineering **New Scientist and Science Journal**, 2002

**History and Philosophy of the Life Sciences**, 1979 *Biosemiotics* Jesper Hoffmeyer, 2008 Recent debates surrounding the teaching of biology divide participants into three camps based on how they explain the appearance of the human race evolution creationism or intelligent design Biosemiotics discovers an intriguing higher ground respecting those opposing theories by arguing that questions of meaning and experiential life can be integrated into the scientific study of nature This groundbreaking book shows how the linguistic powers of humans imply that consciousness emerges in the

evolutionary process and that life is based on sign action not just molecular interaction Biosemiotics will be essential reading for anyone interested in the nexus of linguistic possibility and biological reality     **Annals of the Japan Association for Philosophy of Science** Kagaku Kisoron Gakkai,2008     Bibliographic Index ,2006     **Digital Writing Research** Heidi A. McKee,Danielle Nicole DeVoss,2007 Focuses on how writing technologies specifically digital technologies affect research shaping the questions asked the sites studied the methodologies used ethical issues conclusions and the actions taken by scholars and teachers This volume offers an introduction to possible approaches and related methodological and ethical issues     **New Trends, Dynamics and Scales in Pattern Formation** Héctor L. Mancini,2007     Homo Angelicansis Izak J. Botha,2007-03 Homo Angelicansis discusses a new species that has evolved beyond primates and Homo sapiens and into a spiritual realm The historical contributions of philosophers Christian church fathers heretics occultists biologists physicists and archaeologists are examined and synthesized With the help of cosmology and evolution the author guides the reader on a startlingly original theory of where evolution has led mankind and what lies ahead     *Encyclopedia of Language & Linguistics* E. K. Brown,2006

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