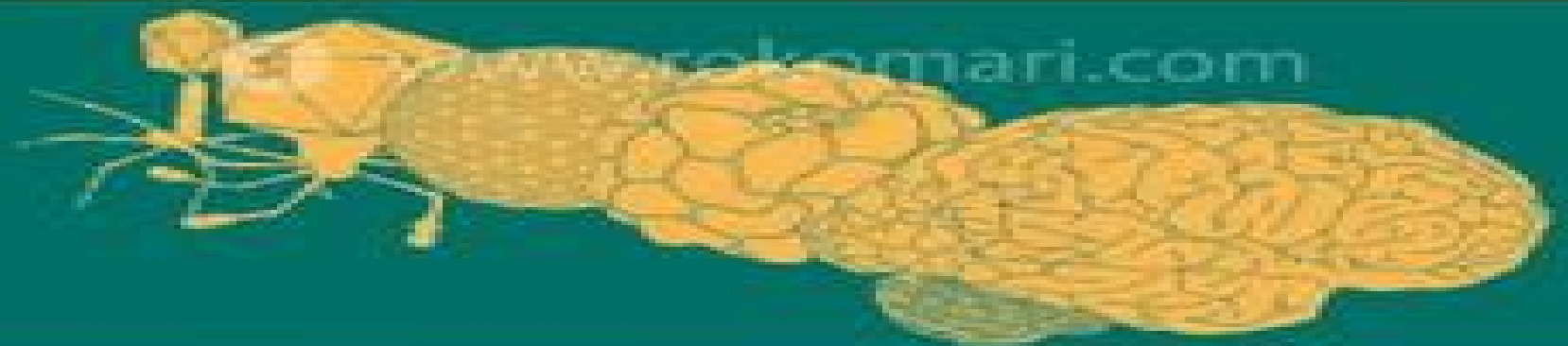


Luis P. Villarreal

Origin of Group Identity



Viruses, Addiction
and Cooperation

 Springer

Origin Of Group Identity Viruses Addiction And Cooperation

Günther Witzany



Origin Of Group Identity Viruses Addiction And Cooperation:

Origin of Group Identity Luis P. Villarreal, 2008-12-10 A sense of belonging is basic to the human experience But in this humans are not unique Essentially all life from bacteria to humans have ways by which it determines which members belong and which do not This is a basic cooperative nature of life I call group membership which is examined in this book However cooperation of living things is not easily accounted for by current theory of evolutionary biology and yet even viruses display group membership That viruses have this feature would likely seem coincidental or irrelevant to most scientist as having any possible relationship to human group identity Surely such simple molecular based relationships between viruses are unrelated to the complex cognitive and emotional nature of human group membership Yet viruses clearly affect bacterial group membership which are the most diverse and abundant cellular life form on Earth and from which all life has evolved Viruses are the most ancient numerous and adaptable biological entities we know And we have long recognized them for the harm and disease they can cause and they have been responsible for the greatest numbers of human deaths However with the sequencing of entire genomes and more recently with the shotgun sequencings of habitats we have come to realize viruses are the black hole of biology a giant force that has until recently been largely unseen and historically ignored by evolutionary biology Viruses not only can cause acute disease but also persist as stable unseen agents in their host

Biokommunikation und natürliche Bearbeitung genetischer Texte Günther Witzany, 2011 **Self and Nonself** Carlos López-Larrea, 2012-03-07 In 1960 Sir Frank Macfarlane Burnet received the Noble Prize in Physiology and Medicine He titled his Nobel Lecture Immunological Recognition of Self emphasizing the central argument of immunological tolerance in How does the vertebrate organism recognize self from nonself in this the immunological sense and how did the capacity evolve The concept of self is linked to the concept of biological self identity All organisms from bacteria to higher animals possess recognition systems to defend themselves from nonself Even in the context of the limited number of metazoan phyla that have been studied in detail we can now describe many of the alternative mechanism of immune recognition that have emerged at varying points in phylogeny Two different arms the innate and adaptive immune system have emerged at different moments in evolution and they are conceptually different The ultimate goals of immune biology include reconstructing the molecular networks underlying immune processes **Viruses: Essential Agents of Life** Günther Witzany, 2012-11-13 A renaissance of virus research is taking centre stage in biology Empirical data from the last decade indicate the important roles of viruses both in the evolution of all life and as symbionts of host organisms There is increasing evidence that all cellular life is colonized by exogenous and or endogenous viruses in a non lytic but persistent lifestyle Viruses and viral parts form the most numerous genetic matter on this planet **Biocommunication of Archaea** Guenther Witzany, 2017-09-27 Archaea represent a third domain of life with unique properties not found in the other domains Archaea actively compete for environmental resources They perceive themselves and can distinguish between self and non self They

process and evaluate available information and then modify their behaviour accordingly They assess their surroundings estimate how much energy they need for particular goals and then realize the optimum variant These highly diverse competences show us that this is possible owing to signaling mediated communication processes within archaeal cells intra organismic between the same related and different archaeal species interorganismic and between archaea and nonarchaeal organisms transorganismic This is crucial in coordinating growth and development shape and dynamics Such communication must function both on the local level and between widely separated colony parts This allows archaea to coordinate appropriate response behaviors in a differentiated manner to their current developmental status and physiological influences This book will orientate further investigations on how archaeal ecosphere inhabitants communicate with each other to coordinate their behavioral patterns and what's the role of viruses in this highly dynamic interactional networks

Information Studies And The Quest For Transdisciplinarity: Unity Through Diversity Mark Burgin, Wolfgang Hofkirchner, 2017-03-27 This book is the second volume of a two volume edition based on the International Society for Information Studies Summit Vienna 2015 on The Information Society at the Crossroads Response and Responsibility of the Sciences of Information see summit.is4is.org The book gives an up to date multiaspect exposition of contemporary studies in the field of information and related areas It presents most recent achievements ideas and opinions of leading researchers in this domain reflecting their quest for advancing information science and technology With the goal of building a better society in which social and technological innovations help make information key to the flourishing of humanity we dispense with the bleak view of the dark side of information society It is aimed at readers that conduct research into any aspect of information information society and information technology who develop or implement social or technological applications It is also for those who have an interest in participating in setting the goals for the sciences of information and the social applications of technological achievements and the scientific results

The Oxford Handbook of Human Symbolic Evolution Nathalie Gontier, Andy Lock, Chris Sinha, 2024-01-17 The biological and neurological capacity to symbolize and the products of behavioral cognitive sociocultural linguistic and technological uses of symbols symbolism are fundamental to every aspect of human life The Oxford Handbook of Human Symbolic Evolution explores the origins of our characteristically human abilities our ability to speak create images play music and read and write The book investigates how symbolization evolved in human evolution and how symbolism is expressed across the various areas of human life The field is intrinsically interdisciplinary considering findings from fossil studies scientific research from primatology developmental psychology and of course linguistics Written by world leading experts thirty eight topical chapters are grouped into six thematic parts that respectively focus on epistemological psychological anthropological ethological linguistic and social technological aspects of human symbolic evolution The handbook presents an in depth but comprehensive and interdisciplinary overview of the of the state of the art in the science of human symbolic evolution This work will be of interest to academics and students active in all fields

contributing to the study of human evolution

Biocommunication of Ciliates Guenther Witzany, Mariusz

Nowacki, 2016-05-23 This is the first coherent description of all levels of communication of ciliates. Ciliates are highly sensitive organisms that actively compete for environmental resources. They assess their surroundings, estimate how much energy they need for particular goals, and then realise the optimum variant. They take measures to control certain environmental resources. They perceive themselves and can distinguish between self and non self. They process and evaluate information and then modify their behaviour accordingly. These highly diverse competences show us that this is possible owing to signalling mediated communication processes within ciliates: intra-organismic (between the same related and different ciliate species), inter-organismic (and between ciliates and non-ciliate organisms), and trans-organismic. This is crucial in coordinating growth and development, shape and dynamics. This book further serves as a learning tool for research aspects in biocommunication in ciliates. It will guide scientists in further investigations on ciliate behavior, how they mediate signaling processes between themselves and the environment.

Memory and Learning in Plants Frantisek Baluska, Monica

Gagliano, Guenther Witzany, 2018-04-23 This book assembles recent research on memory and learning in plants. Organisms that share a capability to store information about experiences in the past have an actively generated background resource on which they can compare and evaluate coming experiences in order to react faster or even better. This is an essential tool for all adaptation purposes. Such memory learning skills can be found from bacteria up to fungi, animals, and plants, although until recently it had been mentioned only as capabilities of higher animals. With the rise of epigenetics, the context-dependent marking of experiences on the genetic level is an essential perspective to understand memory and learning in organisms. Plants are highly sensitive organisms that actively compete for environmental resources. They assess their surroundings, estimate how much energy they need for particular goals, and then realize the optimum variant. They take measures to control certain environmental resources. They perceive themselves and can distinguish between self and non self. They process and evaluate information and then modify their behavior accordingly. The book will guide scientists in further investigations on these skills of plant behavior and on how plants mediate signaling processes between themselves and the environment in memory and learning processes.

Emerging Paradigms for Antibiotic-Resistant Infections: Beyond the Pill Mayank

Gangwar, Gopal Nath, 2024-11-18 This book delves into antibiotic resistance, offering insights into its emergence, mechanisms, and impact on global health. The book also scrutinizes over-prescription, agricultural use, and the scarcity of new drug development, while spotlighting the role of globalization in its propagation. It moves beyond conventional approaches, examining alternative strategies like phage therapy, immunotherapy, and nanotechnology. Highlighting precision diagnostics and the importance of policy implications, it navigates through public health strategies, surveillance, and international collaborations. Finally, it glimpses into the future, delineating the challenges, opportunities, and the urgency of action required to steer away from a post-antibiotic era. This book serves as an invaluable resource for students, researchers, and scientists in

the fields of medicine pharmacy microbiology and public health

Minimal Selfhood and the Origins of Consciousness

Rupert Glasgow,2018-07-10 In *Minimal Selfhood and the Origins of Consciousness* R D V Glasgow seeks to ground the logical roots of consciousness in what he has previously called the minimal self The idea is that elementary forms of consciousness are logically dependent not as is commonly assumed on ownership of an anatomical brain or nervous system but on the intrinsic reflexivity that defines minimal selfhood The aim of the book is to trace the logical pathway by which minimal selfhood gives rise to the possible appearance of consciousness It is argued that in specific circumstances it thus makes sense to ascribe elementary consciousness to certain predatory single celled organisms such as amoebae and dinoflagellates as well as to some of the simpler animals Such an argument involves establishing exactly what those specific circumstances are and determining how elementary consciousness differs in nature and scope from its more complex manifestations

The Minimal Self Rupert Glasgow,2017-06-13 Self is a term that is much used but often poorly understood or over hastily dismissed In *The Minimal Self* R D V Glasgow seeks to unearth the underlying nature of selfhood Glasgow s approach is based upon the notion of intrinsic reflexivity which manifests itself in three fundamental forms self maintenance self reproduction and self containment Through a conceptual analysis of selfhood Glasgow aims to ascertain what distinguishes full forms of minimal selfhood from entities such as genes and viruses that are merely selfish or self like The idea is to establish the logical prerequisites for the transition from a world bereft of selfhood to one populated by selves like us Minimal selfhood thus provides a bridge linking philosophy biology and other disciplines that have previously failed to coincide in their understanding of what a self is

Biocommunication in Soil Microorganisms Günther Witzany,2010-11-01 Communication is defined as an interaction between at least two living agents which share a repertoire of signs These are combined according to syntactic semantic and context dependent pragmatic rules in order to coordinate behavior This volume deals with the important roles of soil bacteria in parasitic and symbiotic interactions with viruses plants animals and fungi Starting with a general overview of the key levels of communication between bacteria further reviews examine the various aspects of intracellular as well as intercellular biocommunication between soil microorganisms This includes the various levels of biocommunication between phages and bacteria between soil algae and bacteria and between bacteria fungi and plants in the rhizosphere the role of plasmids and transposons horizontal gene transfer quorum sensing and quorum quenching bacterial host cohabitation phage mediated genetic exchange and soil viral ecology

Genome Invading RNA Networks Guenther Witzany,Luis Villarreal,2018-05-11 A new paradigmatic understanding of evolution genetic novelty code generating genome formatting factors infectious RNA Networks viruses and other natural genetic content operators

Bacteriophages, Part A Malgorzata Lobočka,Waclaw T. Szybalski,2012-03-28 This volume the first of a two part series covers topics including historical ecological and evolutionary considerations genomics and molecular biology and interaction of phages with their hosts Contributions from leading authorities Informs and updates on all the latest developments in the

field **Handbook of Astrobiology** Vera M. Kolb, 2018-12-07 Choice Recommended Title August 2019 Read an exclusive interview with Professor Vera Kolb here Astrobiology is the study of the origin evolution distribution and future of life on Earth This exciting and significant field of research also investigates the potential existence and search for extra terrestrial life in the Solar System and beyond This is the first handbook in this burgeoning and interdisciplinary field Edited by Vera Kolb a highly respected astrobiologist this comprehensive resource captures the history and current state of the field Rich in information and easy to use it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field as well as providing key references for further study Features Fills an important gap in the market providing a comprehensive overview of the field Edited by an authority in the subject with chapters written by experts in the many diverse areas that comprise astrobiology Contains in depth and broad coverage of an exciting field that will only grow in importance in the decades ahead **Biocommunication of Fungi** Günther Witzany, 2012-05-31 Fungi are sessile highly sensitive organisms that actively compete for environmental resources both above and below the ground They assess their surroundings estimate how much energy they need for particular goals and then realise the optimum variant They take measures to control certain environmental resources They perceive themselves and can distinguish between self and non self They process and evaluate information and then modify their behaviour accordingly These highly diverse competences show us that this is possible owing to sign aling mediated communication processes within fungal cells intraorganismic between the same related and different fungal species interorganismic and between fungi and non fungal organisms transorganismic Intraorganismic communication involves sign mediated interactions within cells intracellular and between cells intercellular This is crucial in coordinating growth and development shape and dynamics Such communication must function both on the local level and between widely separated mycelium parts This allows fungi to coordinate appropriate response behaviors in a differentiated manner to their current developmental status and physiological influences **Democratic Theorists in Conversation** J. Gagnon, 2015-12-11 Democracy has changed considerably in recent years to the extent that our contemporary understanding differs greatly from long held democratic values In this collection renowned democratic theorists from Noam Chomsky to Francis Fukuyama give their thoughts on new democratic theory and its implications for the study and practice of democracy **Evolutionary Basic Democracy** J. Gagnon, 2013-05-23 No one in this world truly understands what democracy means We operate democracy only through best guesses This uncertainty has caused and continues to cause significant political troubles This book offers a way forward It provides a new tool that will allow us to understand democracy for the entire planet and all of humanity **Fungal Machines** Andrew Adamatzky, 2023-09-16 This unique book explores fungi as sensors electronic devices and potential future computers offering eco friendly alternatives to traditional electronics Fungi are ancient widely distributed organisms ranging from microscopic single cells to massive mycelium spanning hectares They possess senses similar to humans detecting light chemicals gases gravity and electric

fields It covers fungal electrical activity sensors electronics computing prototypes and fungal language Authored by leading experts from diverse fields the book is accessible to readers of all backgrounds from high schoolers to professors It reveals the remarkable potential of fungal machines while minimizing environmental impact

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