

Günther Witzany *Editor*

Viruses: Essential Agents of Life

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Viruses Essential Agents Of Life

Nicolae Sfetcu



Viruses Essential Agents Of Life:

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

Viruses: Essential Agents of Life Guenther Witzany, 2012-11-12 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 sign aling 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 whats the role of viruses in this highly dynamic interactional networks

Theoretical Information Studies: Information In The World Mark Burgin, Gordana Dodig-crnkovic, 2020-03-24 This is the first attempt to delineate the synthetic field of the theoretical study of information treating information as the basic phenomenon on the fundamental level of the world encompassing nature technology individuals and society The exploration of information is done within Info computational approaches to natural and social phenomena such as Bioinformatics Information Physics Informational Chemistry Computational Physics Cognitive and Social sciences with special emphasis on interdisciplinary crossdisciplinary and transdisciplinary knowledge The book presents results of collaboration across research fields within info computational and info structural frameworks in attempt to better theoretically and conceptually capture the phenomenon of information and its dynamics such as computation and communication as they appear on different levels of organization on different scales and in different contexts *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

Epigenetics in Biological Communication Guenther Witzany, 2024-06-19 Every cell tissue organ and organism is competent to use signs to exchange information reaching common coordinations and organisations of both single cell and group behavior These sign mediated interactions we term biological communication The regulatory system that works in development morphology cell fate and identity physiology genetic instructions immunity memory learning physical and mental disease depends on epigenetic marks The communication of cells persistent viruses and their defectives such as mobile genetic elements and RNA networks ensures both the transport of regulatory instructions and the reprogramming of these instructions But how are the different states of the epigenome orchestrated The epigenetic pathways respond to various signaling cues such as DNA methylation histone variants histone modifications chromatin structure nucleosome remodeling and epigenetic interactions Epigenetic signals are responsible for the establishment maintenance and reversal of transcriptional states that are fundamental for the cell s ability to memorize past events such as changes in the external environment socio sphere or developmental cues External signals trigger changes in the epigenome allowing cells to respond dynamically Internal signals direct activities that are necessary for body maintenance and repairing damaged tissues and organs With the emergence of epigenetic memory organisms can fix historical and context dependent impressive experiences Evolution from now on learnt to learn Learning means organisms can avoid reproduction of always the same This is key to adaptation However inheritance of acquired characteristics is only one of the many examples of the explanatory power of epigenetics Behavioral epigenetics demonstrates the way in which environmental and social experiences produce individual differences in behaviour cognition personality and mental health This book assembles experts to outline the various motifs of all kinds of epigenetic regulation of cells throughout their lives COVID-19 Pandemic - Philosophical Approaches Nicolae Sfetcu, 2020 The paper begins with a retrospective of the debates on the origin of life the virus or the cell The virus needs a cell for replication instead the cell is a more evolved form on the evolutionary scale of life In addition the study of viruses raises pressing conceptual and philosophical questions about their nature their classification and their place in the biological world The subject of pandemics is approached starting from the existentialism of Albert Camus and Sartre the replacement

of the exclusion ritual with the disciplinary mechanism of Michel Foucault and about the Gaia hypothesis developed by James Lovelock and supported in the current pandemic by Bruno Latour The social dimensions of pandemics their connection to global warming which has led to an increase in infectious diseases and the deforestation of large areas which have caused viruses to migrate from their native area their reservoir are highlighted below The ethics of pandemics is approached from several philosophical points of view of which the most important in a crisis of such global dimensions is utilitarianism which involves maximizing benefits for society in direct conflict with the usual Kantian view of respect for people as individuals After a retrospective of the COVID 19 virus that caused the current pandemic its life cycle and its history with an emphasis on the philosophy of death the concept of biopower initially developed by Foucault is discussed with reference to the practice of modern states of control of the populations and the debate generated by Giorgio Agamben who states that what is manifested in this pandemic is the growing tendency to use the state of emergency as a normal paradigm of government An interesting and much debated approach is the one generated by the works of Slavoj Žižek who states that the current pandemic has led to the bankruptcy of the current barbaric capitalism wondering if the path that humanity will take is a neo communism Another important negative effect is desocialization with the conclusion of some philosophers that we cannot exist independently of our relationships with others that a person's humanity depends on the humanity of those around him The last section is dedicated to forecasting what the world will look like after the pandemic and there are already signs of a paradigm shift including the sudden disappearance of the wall ideology a cough was enough to make it suddenly impossible to avoid the responsibility that every individual has it towards all living beings for the simple fact that he is part of this world and of the desire to be part of it The whole is always involved in part because everything is in a sense in everything and in nature there are no autonomous regions that are an exception The COVID 19 pandemic seems to restore the supremacy that once belonged to politics One of the virtues of the virus is its ability to generate a more sober idea of freedom to be free means to do what needs to be done in a specific situation

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Pepper Virome Akhtar Ali,R.K. Gaur,2024-04-25 Pepper Virome Molecular Biology Diagnostics and Management presents detailed information about the plant viruses that infect pepper worldwide providing crucial insights for both the scientific community and producers Understanding the nature of the viruses their transmission methods and possible sources of resistance in order to minimize the yield losses as well as to reduce the spread of these viruses to new locations or countries is of global importance Pepper is an important commodity worldwide It is cultivated for both fresh produce and for processing industry as a spice However various diseases affect pepper production and cause significant yield losses in pepper yield The increasing outbreaks of virus species infecting *Capsicum* spp have become a major problem for growers A combination of factors including expansion and intensification of

pepper cultivation availability of volunteer hosts abundance of insect vectors and climate change have all contributed to the issue Pepper Virome provides in depth information on both the viruses infecting peppers and eco friendly management measures to decrease the rate of spread of viruses Addressing the need for increased international collaboration and exchange of pepper germplasm these insights will also facilitate the selection and breeding for improved Capsicum spp adapted to local conditions and uses Focuses on symptomatology transmission and epidemiology of pepper viruses Reveals the impact on host yield and virus vector interactions Evaluates management strategies against viruses and how they have evolved

Astrobiology Vera M. Kolb, 2014-08-22 Astrobiology An Evolutionary Approach provides a full course in astrobiology with an emphasis on abiogenesis and evolution The book presents astrobiology both as a developing science and as the science of the future The origins of life and the possibility of life elsewhere continues to be a subject of scientific and philosophical examination The

Viral Diseases of Field and Horticultural Crops L. P. Awasthi, 2023-09-20 Viral Diseases of Field and Horticultural Crops details the fundamental and applied aspects of the viral diseases of field and horticultural crops The book opens with a historical introduction to plant virology important plant virologists and landmarks It continues with systematic coverage of viral diseases their economic significance disease symptoms host range mode of transmission diagnostic techniques geographic distribution epidemiology yield losses and control and management of the disease Contributions from an international group of virologists with a wide range of academic research professional and specialized backgrounds in plant virology makes Viral Diseases of Field and Horticultural Crops a comprehensive and must have resource for those engaged in the study and research of plant virology microbiology and plant pathology particularly viral diseases and their impact on field and horticultural crops Provides virus characterization according to the disease pattern and symptoms they cause Covers viral diseases of cereals oil seeds legumes commercial crops spices and condiments medicinal and aromatic crops forage crops vegetable crops fruit crops tree nuts among others Discusses advances like applications in nanotechnology molecular techniques for the detection and characterization of plant viruses and the development of technologies for detecting plant viruses

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

Presentations at the 4th Workshop of the German Astrobiological Society (DAbG) on Astrobiology, 26-27 September 2019, Vienna, Austria Tetyana Milojevic,Rosa De La Torre Noetzel,Oliver Strbak,2021-04-23 Viruses, Genetic Exchange, and the Tree of Life Arshan Nasir,Gustavo Caetano-Anollés,Jean-Michel Claverie,2020-01-23

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 sign aling mediated communication processes within ciliates intra organismic between the same related and different ciliate species inter organismic and between ciliates and non ciliate organisms 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 **The Oxford Handbook of Human Symbolic Evolution** Nathalie Gontier,Andy Lock,Chris Sinha,2024 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 *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 **Leveraging Viruses for the Treatment of Viral Diseases and Cancer** Tibor Bakacs, 2025-10-01 Leveraging Viruses for the Treatment of Viral Diseases and Cancer Improving Host Fitness by Combinations of Virus and Host Genes gives a comprehensive overview on the impact of using naturally or intentionally attenuated viruses which are apathogenic to people to control viral diseases and cancer It examines the potential of exploiting developing and using apathogenic viruses as therapeutic tools Sections cover the COVID 19 pandemic and the need for a post Infection Plan B to combat SARS CoV 2 infections as gaps in testing and vaccination create the perfect conditions for a new variant of concern to emerge More generally the book also provides specific examples of the use of apathogenic viruses to treat other infectious diseases It discusses the process of manufacturing viral therapies and how infectious disease treatments can be repurposed to improve other therapies like for cancer With contribution from an international group of contributors Leveraging Viruses for the Treatment of Viral Diseases and Cancer is useful references for those engages in study and development of infectious diseases and ways to combat them Discusses the development and application of virus based therapy against cancer Covers the safety and potential drawbacks or side effects of the use of apathogenic viruses as therapeutic agents Explores the use of viruses to treat future newly emerging viruses **Challenges and Opportunities of mRNA Vaccines Against SARS-CoV-2** Siguna Mueller, 2023-01-04 This book offers an analytical look at the much debated risks and benefits of the newly developed COVID 19 mRNA vaccines As such it is one of the first books to give a comprehensive overview of mRNA vaccines against COVID 19 and the only one that addresses this topic from a broad multidisciplinary background It brings together insights from various underlying disciplines on the challenges of developing and evaluating the most suitable vaccines for mass vaccination programs enrolled throughout the world focusing on safety and efficacy This book should not be missing on the shelf of any biomedical researcher epidemiologist public health professional or clinical researcher interested in SARS CoV2 or virology and vaccine development in general Virus as Populations Esteban Domingo, 2019-11-06 Virus as Composition Complexity Quasispecies Dynamics and Biological Implications Second Edition explains the fundamental concepts surrounding viruses as complex populations during replication in infected hosts Fundamental phenomena in virus behavior such as adaptation to changing environments capacity to produce disease and the probability to be transmitted or respond to treatment all depend on virus population numbers Concepts such as quasispecies dynamics mutations rates viral fitness the effect of bottleneck events population numbers in virus transmission and disease emergence and new antiviral strategies are included The book s main concepts are framed by recent observations on general virus diversity derived from metagenomic studies and current views on the origin and role of viruses in the evolution of the biosphere Features current views on key steps in the origin of life and origins of viruses Includes examples relating ancestral features of viruses with their current adaptive capacity Explains complex phenomena in an organized and coherent fashion that is easy to comprehend and enjoyable to read Considers quasispecies as

a framework to understand virus adaptability and disease processes **Food and Medicine** Yogi Hale Hendlin, Jonathan Hope, 2021-05-19 This edited volume provides a biosemiotic analysis of the ecological relationship between food and medicine Drawing on the origins of semiotics in medicine this collection proposes innovative ways of considering aliments and treatments Considering the ever evolving character of our understanding of meaning making in biology and considering the keen popular interest in issues relating to food and medicines fueled by an increasing body of interdisciplinary knowledge the contributions here provide diverse insights and arguments into the larger ecology of organisms engagement with and transformation through taking in matter Bodies interpret molecules enzymes and alkaloids they intentionally and unintentionally come in contact with according to their pre existing receptors But their receptors are also changed by the experience Once the body has identified a particular substance it responds by initiating semiotic sequences and negotiations that fulfill vital functions for the organism at macro meso and micro scales Human abilities to distill and extract the living world into highly refined foods and medicines however have created substances far more potent than their counterparts in our historical evolution Many of these substances also lack certain accompanying proteins enzymes and alkaloids that otherwise aid digestion or protect against side effects in active extracted chemicals Human biology has yet to catch up with human inventions such as supernormal foods and medicines that may flood receptors overwhelming the body s normal satiation mechanisms This volume discusses how biosemioticians can come to terms with these networks of meaning providing a valuable and provocative compendium for semioticians medical researchers and practitioners sociologists cultural theorists bioethicists and scholars investigating the interdisciplinary questions stemming from food and medicine

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