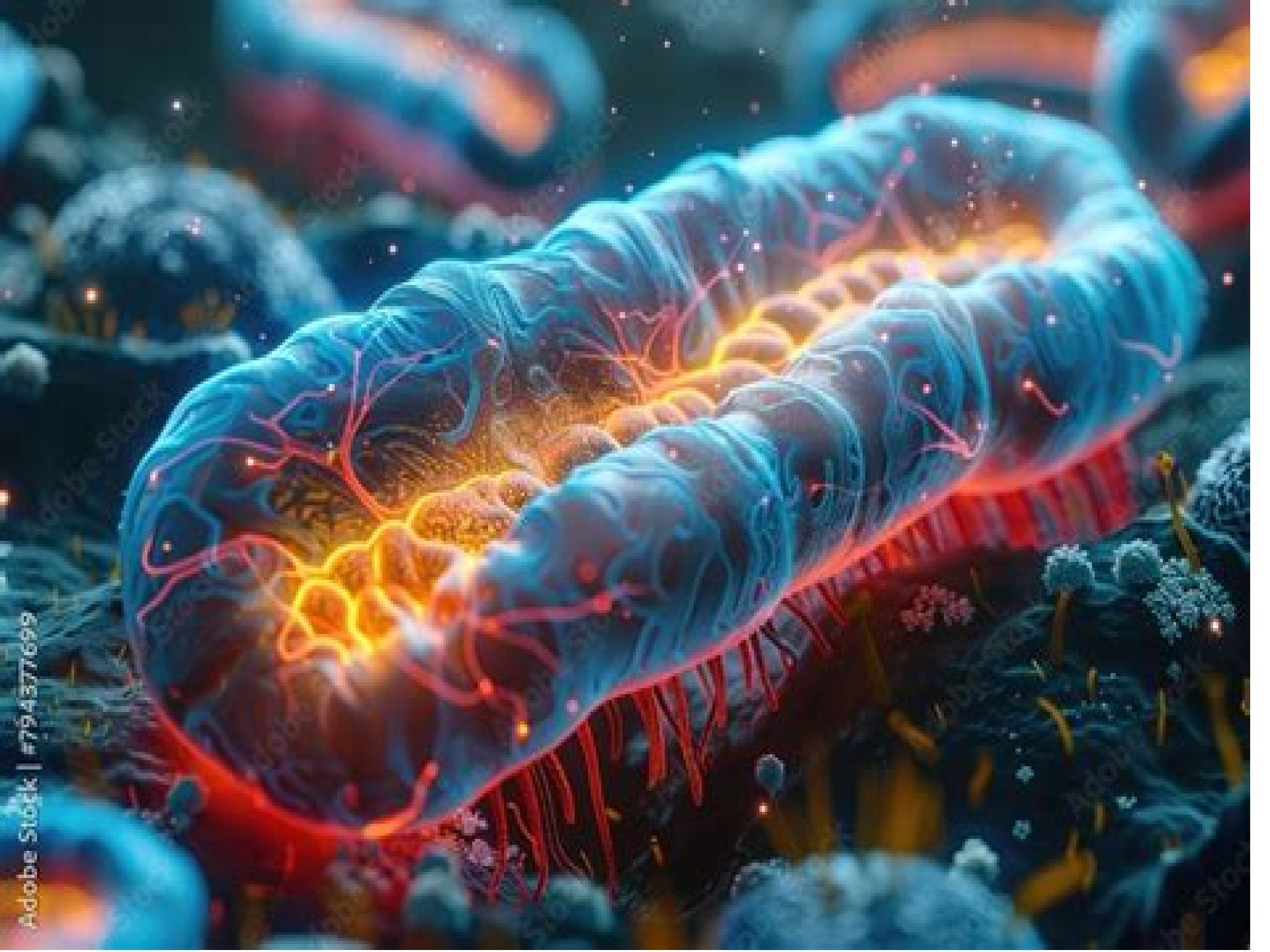




Archaea Methanogens

Richard Gordon



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The Biochemistry of Archaea (Archaeobacteria) M. Kates,D.J. Kushner,A.T. Matheson,1993-12-13 In the last 10 years considerable information has accumulated on the biochemistry of archaea In this volume the subject as a whole is treated in a comprehensive manner The book brings together recent knowledge concerning general metabolism bioenergetics molecular biology and genetics membrane lipid and cell wall structural chemistry and evolutionary relations of the three major groups of archaea the extreme halophiles the extreme thermophiles and the methanogens Subjects included are the evolutionary relationship of these microorganisms to all other living cells special metabolic features of archaeaea protein structural chemistry cell envelopes molecular biology in archaea including DNA structure and replication transcription apparatus translation apparatus and ribosomal structure and a final chapter on the molecular genetics of archaea This comprehensive scope ensures its usefulness to researchers and stimulates further study in this rapidly developing field

Halophiles S. Dassarma, Frank T. Robb, E. M. Fleischmann, 1995 **Archaea** Sébastien Ferreira-Cerca, 2022-09-20 This volume provides an overview of well established methods optimized for diverse archaeal model organisms and is a source of protocols facilitating access to the molecular and cellular biology characterization of these fascinating organisms Chapters are divided into five parts detailing available genetic tools molecular and cellular biology methods strategies to study the ecophysiology of archaea and classroom protocol Each main thematic part is also introduced by future oriented and authoritative primers Written in the format of the highly successful *Methods in Molecular Biology* series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge *Archaea Methods and Protocols* aims to be a foundation for future studies and to be a source of inspiration for new investigations in the field Biology of Archaea, Volume 1

Béatrice Clouet-d'Orval, Bruno Franzetti, Philippe Oger, 2025-02-26 Archaea constitute a new branch of life alongside bacteria and eukaryotes These microorganisms are unique in their cellular and molecular aspects They have evolutionary links with the first eukaryotic cells and are now being used to elucidate fundamental biological questions Champions of extremophilicity archaea are helping to lift the veil on the limits of life on Earth *Biology of Archaea 1* explores the discovery and evolution of the field of archaea research This book also looks at the evolutionary history of archaea and their integration into the tree of life and examines this complex and extremely diverse world in terms of their ecological niches and their still largely unexplored virosphere **The methane moment - Cross-boundary significance of**

methanogens Zhe Lyu, Amelia-Elena Rotaru, Mark Pimentel, Cuijing Zhang, Simon K.-M. R. Rittmann, 2024-07-30 Methane is a potent greenhouse gas a relatively clean burning fossil fuel but also a renewable biofuel when biologically produced from waste treatment plants Most 70% of the global methane emission comes from methanogenic archaea namely methanogens that produce methane from simple substrates such as H₂ CO₂ formate acetate methanol and other methylated compounds

Methanogens are found across all corners of the earth including but not limited to wetlands animals and humans rice fields landfills sewage ocean termites and hydrothermal vents Their extensive adaptations to such a wide range of habitats predict a cross boundary significance of methanogens in many areas such as the environment energy agriculture biotechnology and human and animal health The goal of this Research Topic is to offer a forum that highlights the cross boundary significance of methanogens by bringing together methanogen research from diverse settings to one place This cross boundary significance is currently underappreciated but imperative to collectively understanding and helping to solve some of the biggest and most urgent challenges humanity is facing such as global warming food and energy insecurity pollution and disease As a more potent and shorter lived greenhouse gas than CO₂ methane has moved to the center stage in our efforts in rapidly combating climate change Presumably methanogens and their associated microbes may have been forced into a positive feedback loop to fuel the sharp rise of methane in recent years On the other hand methanogens are considered keystone species in the ecosystem which are vital to the stability of the natural biome therein However the roles of methanogens as keystone species across their habitats are underexplored Moreover the role of methanogens in human and animal intestinal microbiomes have been reconsidered with evidence for links to disease and impact on nutrition Last but not the least methanogens are emerging as a cell factory model for green manufacturing because of their abilities to convert CO₂ to valuable biochemicals Further efforts in the bioengineering of methanogens have the potential to expand their commercial application from waste treatment to biomanufacturing We welcome both basic and translational studies relevant to methanogens from any setting Studies with a focus on methanogens are highly encouraged and manuscripts having methanogens as a significant component are also welcome All studies should emphasize and envisage their implications in understanding and or solving one or more challenges humanity is facing To encourage submissions from multiple disciplines this Research Topic is cross listed with a number of Frontiers journals and sections Manuscripts in the forms of Original Research Review including systematic and mini review Methods Hypothesis and Theory and Perspectives are all welcome Manuscript summary submissions are highly encouraged but all manuscripts submitted prior to the manuscript submission deadline will receive full consideration This Research Topic is dedicated to Dr William Barny Whitman Emeritus Professor of Microbiology at the University of Georgia Athens GA His 40 years and still counting of productive research in methanogens roseobacter and other prokaryotes have contributed to and will continue to inspire new discoveries in the cross boundary significance of both archaea and bacteria the unseen majority COI Statement S K M R R is co founder of Arkeon GmbH M P is a consultant for Bausch Health Ferring Pharmaceuticals Inc Salvo Health and Vivante Health Inc

Molecular Biology of Archaea - 2022 Marleen van Wolferen, Solenne Ithurbide, Michel Geovanni Santiago-Martínez, Arthur Charles-Orszag, 2024-04-18 Since their identification four decades ago Archaea have proven to be a continuous source of exciting discoveries contributing to the characterization of their unique molecular mechanisms metabolisms phylogeny and

cell biology These discoveries have revealed the importance that Archaea play in ecology biotechnology and the human microbiome In addition they highlighted the key position that Archaea occupy in the tree of life bringing us closer to elucidating the origin and early forms of life Despite these important findings and the larger audience that Archaea have consequently gained much remains unexplored Thanks to the recent and ongoing developments in the field technical limitations at the often extreme archaeal growth conditions are being resolved allowing archaeal researchers to answer open and upcoming questions This promises exciting new findings in the near future that will continue to build on our understanding of the various fields of archaeal biology

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

Geomicrobes: Life in Terrestrial Deep Subsurface Malin Bomberg, Lasse Ahonen, 2017-07-17 The deep subsurface is in addition to space one of the last unknown frontiers to human kind A significant part of life on Earth resides in the deep subsurface hiding great potential of microbial life of which we know only little The conditions in the deep terrestrial subsurface are thought to resemble those of early Earth which makes this environment an analog for studying early life in addition to possible extraterrestrial life in ultra extreme conditions Early microorganisms played a great role in shaping the conditions on the young Earth Even today deep subsurface microorganisms interact with their geological environment transforming the conditions in the groundwater and on rock surfaces Essential elements for life are richly present but in difficultly accessible form The elements driving the microbial deep life is still not completely identified Most of the microorganisms detected by novel molecular techniques still lack cultured representatives Nevertheless using modern

sequencing techniques and bioinformatics the functional roles of these microorganisms are being revealed We are starting to see the differences and similarities between the life in the deep subsurface and surface domains We may even begin to see the function of evolution by comparing deep life to life closer to the surface of Earth Deep life consists of organisms from all known domains of life This Research Topic reveals some of the rich diversity and functional properties of the great biomass residing in the deep dark subsurface Methods in Gut Microbial Ecology for Ruminants Harinder P.S. Makkar, Christopher S. McSweeney, 2006-02-23 As a result of various human activities such as increase in human population decrease in arable land due to soil degradation urbanization industrialization and associated increase in the demand for livestock products dramatic changes are occurring in the global ruminant livestock sector These changes include shift in the size of regional livestock populations and in the types of management and feeding systems under which ruminant livestock are held and increased demand of a wider range of quality attributes from animal agriculture not just of the products themselves but also of the methods used in their production The livestock sector will need to respond to new challenges of increasing livestock productivity while protecting environment and human health and conserving biodiversity and natural resources The micro organisms in the digestive tracts of ruminant livestock have a profound influence on the conversion of feed into end products which can impact on the animal and the environment As the livestock sector grows particularly in developing countries there will be an increasing need to understand these processes for better management and use of both feed and other natural resources that underpin the development of sustainable feeding systems

Bioenergetics Günter Schäfer, Harvey Penefsky, 2008-05-24 The fermentation of sugar by cell free yeast extracts was demonstrated more than a century ago by E Buchner Nobel Prize 1907 Buchner's observations put an end to previous animistic theories regarding cellular life It became clear that metabolism and all cellular functions should be accessible to explication in chemical terms Equally important for an understanding of living systems was the concept explained in physical terms that all living things could be considered as energy converters E Schrödinger Nobel Prize 1933 which generate complexity at the expense of an increase in entropy in their environment Bioenergetics was established as an essential branch of the biochemical sciences by the investigations into the chemistry of photosynthesis in isolated plant organelles O Warburg Nobel Prize 1931 and by the discovery that mitochondria were the morphological equivalent that catalyzed cellular respiration The field of bioenergetics also encompasses a large variety of additional processes such as the molecular mechanisms of muscle contraction the structure and driving mechanisms of microbial flagellar motors the energetics of solute transport the extrusion of macromolecules across membranes the transformation of quanta of light into visual information and the maintenance of complex synaptic communications There are many other examples which in most cases may perform secondary energy transformations utilizing energy stored either in the cellular ATP pool or in electrochemical membrane potentials

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