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# Bioactive Compounds From Terrestrial Extremophiles Springerbriefs In Microbiology Extremophilic Bacteria

David J. Newman, Gordon M. Cragg, Paul Grothaus

Bioactive Compounds From Terrestrial Extremophiles Springerbriefs In Microbiology Extremophilic Bacteria: Biology and Biotechnology of Patagonian Microorganisms Nelda Lila Olivera, Diego Libkind, Edgardo Donati, 2016-11-24 The Argentinean Patagonia offers a great diversity of scarcely explored environments suitable for the bioprospection of biotechnological relevant microorganisms. This book provides readers with a concise and clearly illustrated treatment of outstanding topics of Patagonian microbiology and biotechnology It covers a wide range of areas interesting to several audiences such as researchers graduate students and professionals working on the industry food Among the main topics we will discuss examples of environmental applications such as heavy metal and hydrocarbon bioremediation bioprospection of valuable molecules from extremophilic bacteria and yeasts the use of Patagonian yeasts and lactic acid bacteria in fermented foods and beverages aquaculture probiotics and yeasts for food biopreservation in Polar Regions: Understanding Their Survival Strategies for a Sustainable Future Prashant Kumar Singh, Shiv Mohan Singh, Trista J. Vick-Majors, 2024-07-02 Scientific research on cold adapted microorganisms specifically polar microbes is of great interest since Arctic and Antarctic regions harbor diverse and active populations of microorganisms However these microorganisms are subject to impacts of environmental perturbations For example climate change will modulate the distribution and activity of many cyanobacteria and algal species in polar environments that contribute significantly to global carbon fixation and oxygen production Moreover many microorganisms that have remained frozen for thousands of years can revive their metabolic activity and rejoin the modern microbial community For survival in freezing environments polar microorganisms have established specific regulatory mechanisms which are now being challenged by new rapidly changing environmental conditions Remarkable progress has been made to uncover microbial adaptation to anthropogenic activities such as high irradiance nutritional deprivation UV B radiation heat cold desiccation and heavy metals Studies have enabled a basic understanding of gene regulatory pathways for morphological physiological metabolic and genetic adaptations to various environmental stresses To further elucidate physiological adaptation mechanisms and molecular diversity in polar regions this Research Topic is focused on microbes in polar regions looking at their biodiversity ecological adaptations the impact of climate change on their lifestyles and biotechnological application of microbes for a Bioactive Compounds from Terrestrial Extremophiles Lesley-Ann Giddings, David J. sustainable future Newman, 2014-11-21 A discussion of the chemical compounds produced by organisms living under extreme conditions that may have potential as drugs or leads to novel drugs for human use This SpringerBrief deals with bioactive materials from terrestrial extremophiles Chemical Biology of Natural Products David J. Newman, Gordon M. Cragg, Paul Grothaus, 2017-09-22 Chemical Biology of Natural Products This unique long awaited volume is designed to address contemporary aspects of natural product chemistry and its influence on biological systems not solely on human interactions The subjects covered include discovery isolation and characterization biosynthesis biosynthetic engineering pharmaceutical

and other applications of these compounds Each chapter begins with a brief and simple introduction to the subject matter and then proceeds to guide the reader towards the more contemporary cutting edge research in the field with the contributing authors presenting current examples from their own work in order to exemplify key themes Topics covered in the text include genome mining heterologous expression natural product synthesis biosynthesis glycosylation chemical ecology and therapeutic applications of natural products both current and potential The Search for Bioactive Compounds from Microorganisms Satoshi Omura, 1992-10-22 Biologically active compounds isolated from microorganisms continue to be vital to the development of new drugs and agricultural chemicals This book was prepared by current and past members of the laboratory of Dr Satoshi Omura of the Kitasato Institute in Japan Dr Omura and his colleagues have discovered and studied a number of important antibiotics and in their work they have pioneered new methods for screening microbes for interesting and important compounds This book presents strategies and methods for identifying novel molecules with several types of biological activity In addition the book discusses the identification of microbial compounds of agrochemical importance presents information on chemical screening methods and concludes with chapters on microbial strain selection fermentation technology and genetic engineering of antibiotic producing microorganisms. This book will be of great interest to scientists working in the very active and competitive fields of antibiotic and agrochemical discovery **Anti-microbial** Compounds from Arctic, Extremophilic Bacteria Charlotte Jensen, 2008 **Bioactive Secondary Metabolites from** Marine and Terrestrial Bacteria Mohamed Attia Shaaban Mahmoud, 2004 The Search for Bioactive Compounds from Microorganisms Satoshi Omura, 1992-10-01 The Search for Bioactive Compounds from Microorganisms Satoshi Ōmura,1992-01-01

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