

Biosalinity in Action: Bioproduction with Saline Water

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Biosalinity In Action

Dov Pasternak



Biosalinity In Action:

Biosalinity in Action: Bioproduction with Saline Water D. Pasternak, Anthony San Pietro, 2012-12-06 Historically scientists and laymen have regarded salinity as a hazardous detrimental phenomenon This negative view was a principal reason for the lack of agricultural development of most arid and semi arid zones of the world where the major sources of water for biological production are saline The late Hugo Boyko was probably the first scientist in recent times to challenge this commonly held pessimistic view of salinity His research in Israel indicated that many plants can be irrigated with saline water even at seawater strength if they are in sandy soil a technique that could open much barren land to agriculture This new even radical approach to salinity was clearly enunciated in the book he edited and most appropriately entitled *Salinity and Aridity New Approaches to Old Problems* 1966 A decade later three members of the United States National Science Foundation NSF Lewis Mayfield James Aller and Oskar Zaborsky formulated the Biosaline Concept namely that poor soils high solar insolation and saline water which prevail in arid lands should be viewed as useful resources rather than as disadvantages and that these resources can be used for non traditional production of food fuels and chemicals The First International Workshop on Biosaline Research was convened at Kiawah Island South Carolina in 1977 by A San Pietro

Biosalinity in action Dov Pasternak, 1985 *Biosalinity in Action* D. Pasternak, A. San Pietro, 1985 **Biosalinity in Action** Dov Pasternak, Anthony Gordan San Pietro, 1985 *Microbiological Activity for Soil and Plant Health Management* Ravindra Soni, Deep Chandra Suyal, Prachi Bhargava, Reeta Goel, 2021-11-24 Plants and the soil they grow in are confronted with severe biotic and abiotic stresses viz nutrient starvation salt stress drought flooding xenobiotic contamination in order to sustain in an ecosystem They also shape the microbial composition in their vicinity by modulating their secretions This book discusses the pressing demand for novel and potential microorganisms to support an environment friendly and cost effective way of stress management in the plants The book summarizes the processes and mechanisms involved in microbe assisted plant and soil stress management It discusses the challenges and opportunities in the application of microbial interactions in plant health It describes in detail the nutrient dynamics of different soil systems It includes important topics like agriculturally important genes and enzymes rhizosphere modeling engineering genetically engineered bio inoculants etc It also talks about the application of next generation technologies omics and nano based technologies In the recent years more than 50% of agricultural production relies on chemical fertilizers leading to serious health issues and environmental concerns This book provides natural solutions to these environmental concerns This book is useful for researchers and students in the field of microbiology agriculture soil biology and plant sciences *Plant Life under Changing Environment* Durgesh Kumar Tripathi, Vijay Pratap Singh, Devendra Kumar Chauhan, Shivesh Sharma, Sheo Mohan Prasad, Nawal Kishore Dubey, Naleeni Ramawat, 2020-04-10 *Plant Life under Changing Environment Responses and Management* presents the latest insights reflecting the significant progress that has been made in understanding plant responses to various changing

environmental impacts as well as strategies for alleviating their adverse effects including abiotic stresses Growing from a focus on plants and their ability to respond adapt and survive Plant Life under Changing Environment Responses and Management addresses options for mitigating those responses to ensure maximum health and growth Researchers and advanced students in environmental sciences plant ecophysiology biochemistry molecular biology nano pollution climate change and soil pollution will find this an important foundational resource Covers both responses and adaptation of plants to altered environmental states Illustrates the current impact of climate change on plant productivity along with mitigation strategies Includes transcriptomic proteomic metabolomic and ionomic approaches

Introduction and Application of Organic Fertilizers as Protectors of Our Environment Munir Ozturk, Nudrat Aisha Akram, Bengu Turkyilmaz Unal, Muhammad Ashraf, 2022-02-22 This book gives the latest information on advances in organic agriculture which can be used by agroindustry people as well as agricultural engineers and with practical examples for farmers It provides important information covering multidisciplinary approaches on environmental awareness organic agricultural production as well as organic fertilizers The chapters here are prepared by experts in the field who present and discuss the principles of a wide range of practical ideas with examples This book also presents novel ideas and suggestions for future research in organic agricultural production The topics included in this book are based on surveys together with literature reviews to enable the academic and industrial readers to evaluate what they see as specific to their own discipline The chapters include a wide range of topics which will also make it easy to make comparisons between different disciplines

ASCE Manuals and Reports on Engineering Practice American Society of Civil Engineers, American Society of Civil Engineers. Irrigation and Drainage Division, 1982

Index of Conference Proceedings Received British Library. Document Supply Centre, 1986

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Responses of Two Field-grown Tomato Cultivars (Lycopersicon Esculentum Mill.) to Saline Water Applied by Drip Irrigation Kent Lawrence Brittan, 1995

Plant Microbiomes for Sustainable Agriculture Ajar Nath Yadav, Joginder Singh, Ali Asghar Rastegari, Neelam Yadav, 2020-03-06 This book encompasses the current knowledge of plant microbiomes and their potential biotechnological application for plant growth crop yield and soil health for sustainable agriculture The plant microbiomes rhizospheric endophytic and epiphytic play an important role in plant growth development and soil health Plant and rhizospheric soil are a valuable natural resource harbouring hotspots of microbes and it plays critical roles in the maintenance of global nutrient balance and ecosystem function The diverse group of microbes is key components of soil plant systems where they are engaged in an intense network of interactions in the rhizosphere endophytic phyllospheric The rhizospheric microbial diversity present in rhizospheric zones has a sufficient amount of nutrients release by plant root systems in form of root exudates for growth development and activities of microbes The endophytic microbes are referred to those microorganisms which colonize in the interior of the plant parts viz root stem or seeds without causing any harmful

stressful conditions Irrigating crops with low quality water Beneficial aspects of stress

Reviewing **Biosalinity In Action**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Biosalinity In Action**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Biosalinity In Action Introduction

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