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Projects



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DC MOTOR



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Zemin Wang,Yi Wang ,Darren Wong

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Success with STEM Sue Howarth,Linda Scott,2014-11-13 Success with STEM is an essential resource packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school It offers guidance on current issues and priority areas to help you make informed judgements about your own practice and argue for further support for your subject in school It explains current initiatives to enhance STEM teaching and offers a wide range of practical activities to support exciting teaching and learning in and beyond the classroom Illustrated with examples of successful projects in real schools this friendly inspiring book explores Innovative teaching ideas to make lessons buzz Activities for successful practical work Sourcing additional funding Finding and making the most of the best resources STEM outside the classroom Setting up and enhancing your own STEM club Getting involved in STEM competitions fairs and festivals Promoting STEM careers and tackling stereotypes Health safety and legal issues Examples of international projects An wide ranging list of project and activity titles Enriched by the authors extensive experience and work with schools Success with STEM is a rich compendium for all those who want to develop outstanding lessons and infuse a life long interest in STEM learning in their students The advice and guidance will be invaluable for all teachers subject leaders trainee teachers and NQTs

Science ,2009

Cruising World ,2001-01

Women in Nanotechnology

Pamela M. Norris,Lisa E. Friedersdorf,2019-07-16 This book celebrates a few examples of the many women who have advanced the field of nanotechnology The book opens with an overview of the field illuminating how nanotechnology is opening the door to manipulating matter on a scale one billionth of a meter Then the use of nanotechnology to improve science and scientific literacy is discussed and strategies for incorporating nanotechnology in K 12 education are presented Next an array of female scientists provide technical descriptions of how their work is impacting their respective areas Topics include applications in the energy electronics water communication and health care sectors among others The book closes with a historical perspective on the U S National Nanotechnology Initiative and future prospects for nanotechnology This book provides the opportunity to appreciate some of the key advancements made by women engineers in nanotechnology and to become inspired by the ingenuity and creativity collaborative nature and altruistic inventiveness of women engineers Includes contributions from leading female scientists in nanotechnology Highlights topics in nanotechnology ranging from health care to sensors to alternative energy to clean water to nanoelectronics Presents an opportunity to learn about the breadth depth and impact of the field of nanotechnology and women s important contributions to it

Plant Microbiome: Interactions, Mechanisms of Action, and Applications, volume III Alok Kumar Srivastava,George Newcombe,Gustavo Santoyo ,Prem Lal Kashyap,2025-11-11 Due to the success of the original Research Topic and the following Volume II we have decided to launch a Volume III of Plant Microbiome Interactions Mechanisms of Action and Applications The relationship between plants and their surroundings especially those plant microbe interactions with a beneficial output remain the center

of considerable attention Plants depend on their microbiomes for multifarious life supporting activities including nutrient acquisition and augmentation of their defense systems against biotic and abiotic stresses The interactions between a plant and its microbiome are highly complex and dynamic in nature The plant immune system in particular is thought to have a profound impact in determining the plant microbiome structure and diversity Characterizing the plant microbiome and its function could be applied for better crop design and management especially in resource limited environments and to protect plants from intruding pathogens Therefore a deep understanding of the interrelationships of the soil plant microorganism system is essential for improving the efficacy and potential applications of plant growth promoting inocula for achieving sustainable food security and development Recent studies of plant growth promoting rhizobacteria show that cocktails of useful bacteria in the form of synthetic communities are better than single inoculants which face competition from other microorganisms and could be killed or suppressed under sub optimal conditions Microbial activity should also be considered in the construction of microbial co inoculants Understanding plant microbe interactions and mechanisms will also help in the development of smart microbial fertilizer formulation and application in the future This Research Topic welcomes the following subtopics Interactomics for sustainable agriculture studies using novel combinatorial approaches employing computational expertise to analyze the data from genomics transcriptomics metabolomics and proteomics based studies leading to identification of targets and validating wet lab experiments with molecular evidence for resolving issues in agriculture and sustainability Please note that purely descriptive sequencing studies will not be considered Plant microbiome studies deciphering the structure and composition of complex microbial communities associated directly or indirectly with the plant i e endophytic epiphytic and rhizospheric communities and their significance Topic Editors Alok Kumar Srivastava and Prem Lal Kashyap have created commercial products related to the Topic All other topic editors declare no competing interests with regard to the Research Topic subject Electronics Now ,1999 Innate Immunity Programming and Memory in Resolving and Non-Resolving Inflammation Liwu Li,Charles E. McCall,Xiaoyu Hu,2020-03-18 Surviving and Thriving: How Crops Perceive and Respond to Temperature Stress Zemin Wang,Yi Wang ,Darren Wong,2025-01-27 The dramatic temperature fluctuations spurred by climate change inhibit plant growth and threaten crop productivity Unraveling how plants defend themselves against temperature stress induced cellular impairment is not only a crucial fundamental issue but is also of critical importance for agricultural sustainability and food security Improving crop tolerance to abiotic stress conditions requires a deep understanding of the response of plants to changes in their environment This response is dependent on early and late signal transduction events that involve important signaling molecules such as reactive oxygen species ROS sugars different plant hormones and other signaling molecules It is the integration of these signaling events mediated by an interplay between ROS sugars and different plant hormones that orchestrates the plant response to abiotic stress and drive changes in transcriptomic metabolic and proteomic networks that lead to plant acclimation and survival This

Research Topic explores the crops balancing growth and temperature stress responses and how these findings can be used to increase crop quality and yield potential **Wheat Rusts and Resistance Breeding** Gurcharn Singh Brar, Samuel Holden, 2025-04-08

This detailed volume collects techniques for increasing our understanding of wheat rust pathogens the host plant and the interactions between the two Beginning with routine and advanced tools used for pathogen surveillance characterization and field assessment of germplasm for resistance the book continues with sections on genetic analysis and breeding for rust resistance as well as rust management through fungicidal approaches Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Wheat Rusts and Resistance Breeding Methods and Protocols serves as an ideal guide for established researchers looking to familiarize themselves with new innovations and for new researchers working to strengthen their understanding of rust pathogens

[Plant Protein and Proteome Altlas--Integrated Omics Analyses of Plants under Abiotic Stresses](#) Tingyun Kuang, Xuchu Wang, Xiaochun Qin, Shaojun Dai, Pingfang Yang, Ling Li, 2020-05-22 Integrative omics of plants in response to stress conditions play more crucial roles in the post genomic era High quality genomic data provide more deeper understanding of how plants to survive under environmental stresses This book is focused on concluding the recent progress in the Protein and Proteome Atlas in plants under different stresses It covers various aspects of plant protein ranging from agricultural proteomics structure and function of proteins and approaches for protein identification and quantification A total of 27 papers including two timely reviews have contributed to this Special Issue In the first part with the topic of Comparative Proteomics of Different Plants six papers were included to describe the phenotypic changes and proteomic analyses of different plants under different conditions Then another six papers with the topic of Proteomics of Plants under Osmotic Stress were included to describe the recent comparative proteomics analyses of plants under osmotic stress particularly the drought and salinity stresses in leaves of certain plant species The other proteomics studies on several energy plants and economic crops were reported to demonstrate the recent omics studies on different plants during their development processes More stress responsive genes and proteins in these plants were identified These target genes and proteins are important candidates for further functional validation in economic plants and crops

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