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Detoxification of Heavy Metals Irena Sherameti,Ajit Varma,2011-09-01 Heavy metals are severe environmental pollutants and many of them are toxic even at very low concentrations With industrial development soil pollution with heavy metal elements have dramatically increased The uptake of heavy metals via plants that are exposed to contaminated soils is a risk for human health and a major hazard for the ecosystem as a whole including soil microorganisms On the other hand plants may be used in the decontamination of soils The topics presented in this book include sources of heavy metals contaminants in soils plant species that can grow on contaminated soils the phytoremediation of contaminated soils tolerance accumulation and detoxification mechanisms of zinc copper arsenic cadmium and vanadium in plants the critical role of sulfur metabolism in heavy metal tolerance the role of aquatic macrophytes plant growth promoting bacteria sugar crops and earthworms in detoxification and heavy metal stabilization by promoting zeolite synthesis in soils **Exogenous Priming**

and Engineering of Plant Metabolic and Regulatory Genes Manish Kumar Patel,Lam-Son Phan Tran,Sonika Pandey,Avinash Mishra,2025-01-30 Exogenous Priming and Engineering of Plant Metabolic and Regulatory Genes Stress Mitigation Strategies in Plants provides insights into metabolic adjustment their regulation and the regulatory networks involved in plants responding to stress situations It contains comprehensive information combining mechanistic priming and engineering approaches from the conventional to those recently developed In addition the book addresses seed priming tolerance mechanisms pre and post treatment as well as sensory response and genetic manipulation From basic concepts to modern technologies and prevailing policies readers will find this book useful in enhancing their understanding of the area as well as helping in identifying approaches for future research Provides detailed information on developing stress tolerant crop varieties using two distinct approaches Highlights advancements in OMICS approaches for different crops Assists readers in designing and evaluating plan for future research **Integrated Improvement of Food Legumes** Aditya Pratap,Chandra Mohan Singh,Deepak Kumar Verma,Awdhesh Kumar Mishra,2025-06-05 Grain legumes provide an excellent source of dietary protein carbohydrates iron and zinc Their role in promoting human and soil health and environmental sustainability is

appreciated by the global scientific communities Impressive research progress has been made on the development of improved varieties matching production and protection technologies biofortification and post harvest management of food legumes The genetic improvement has been due in large part to the advent of modern molecular and genomic technologies which have supplemented the traditional methods and classical breeding This book brings together a comprehensive knowledge resource on all such developments and provides information on next generations breeding approaches improvement of quality traits multiple stress resistance seed quality enhancement and post harvest processing and value addition in grain legumes It is intended to be a comprehensive guide to legume crops improvement and cultivation *Indian Books in Print* ,2003

Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants Ramesh Namdeo Pudake,Ravi Mani Tripathi,Sarvajeet Singh Gill,2024-03-13 Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants reviews the most recent literature on the role of nanomaterials in achieving sustainability in crop production in stressful environments This book explores the adverse conditions caused by abiotic stress to crop plants and the methods by which these conditions can be potentially overcome through developments in nanoscience and nanotechnology Abiotic stresses such as drought salinity temperature stress excessive water heavy metal stress UV stress etc are major factors which may adversely affect the growth development and yield of crops While recent research for ways of overcoming the physiological and biochemical changes brought on by these stresses has focused on genetic engineering of plants additional research continues into alternative strategies to develop stress tolerant crops including the use of nanoscience and nanotechnology Providing an in depth summary of research on nanomaterials and nano based devices for field monitoring of crops this book will serve as an ideal reference for academics professionals researchers and students working in the field of agriculture nanotechnology plant science material science and crop production Presents advancements in our understanding of molecular and physiological interactions between nanoparticles and crop plants Includes figures and illustrations to help readers visualize and easily understand the role of nanomaterials Serves as an ideal reference for those studying smart nanomaterials biosensors and nanodevices for real time plant stress measurement

TEXTBOOK OF PHYSIOLOGY (VOLUMES I AND II). A.K. JAIN,2023 **Textbook of Medical Physiology 4th Edition - E-Book** G K Pal,2021-12-21 Textbook of Medical Physiology 4th Edition E Book Physiology A. K. Basak,2012

Textbook of Physiology P. Sathya,Viji Devanand,2018-10-30 Presents the essential aspects of human physiology in a clear crisp simple and interesting manner to boost the interest and curiosity among students Each topic has been explained with well labelled colour illustrations depicting concepts lucidly to facilitate easy understanding of the basic concepts This book effectively meets the needs of the undergraduate medical students It emphasises all relevant aspects of physiology including physiological anatomy and pathophysiology It contains a wealth of pictures charts tables and flowcharts to make the fundamentals clear and the facts comprehensive to the reader This is an ideal textbook for undergraduate medical students

and a handy review book for postgraduate students Students on courses in dental sciences nursing and other allied health sciences will also find this book interesting and useful for gaining knowledge in physiology *Manual of Practical Physiology* A.K. Jain,2003 *Concise Physiology for Undergraduates* A. K. Jain,2005 **Fundamentals of Plant Physiology** VK Jain,2018 In its 19th edition the book continues to provide a comprehensive coverage on the basic principles of plant physiology It focuses on the concepts of plant physiological form functions as well as processes in crop production Besides fulfilling the needs of undergraduate students this book will be useful to postgraduate students and also to those appearing in various competitive examinations **Concise Textbook of Human Physiology - E-Book** Indu Khurana,Ayushi Khurana,2022-07-06 Fourth edition of CONCISE TB OF PHYSIOLOGY incorporates thoroughly revised and updated text The text has been organized into 11 sections and each section has been further subdivided into chapters The content has been arranged in such a way that it provides explanation complemented by numerous tables flowcharts and abundant illustrations Complete and up to date text Illustrated by more than 1000 clear line diagrams Complemented with numerous tables and flowcharts for quick comprehension Balanced amalgamation of pure and applied text Applied aspects highlighted in boxes Additional important information has been highlighted as important notes For self assessment of the subject the questionnaire and viva voce questions are given at the end of each chapter as self assessment *Human Physiology in Nutshell* A. K. Jain,2005 **Physiology Practical Manual, 1st Edition - E-Book** Rashmi Ramanathan,2023-07-10 This practical manual delivers clinically relevant and updated concepts as per the Competency Based Medical Education CBME curriculum This student friendly practical manual has an observation table column at the end of most of the chapters Competencies with specific learning objectives SLOs are mentioned at the start of each chapter The CBME curriculum mandates the skill certification of competencies in the log book By using this practical manual students can directly fill their responses in the predrawn tables Thus the practical hours can be completely used for developing psychomotor skills and skill certification Full colour photos labelled diagrams and illustrations will help to precisely understand and perform the procedural steps in clinical examination Clinical scenarios charts graphs calculations were given in the last few chapters Discussion questions with answers will be useful for the students to score more during the practical viva voce Examples of practical OSCE were provided at the end of most of the chapters Amphibian and Mammalian experiments with graphs were provided for postgraduate students This book will be useful to MBBS MD and MSC physiology students dental paramedical and allied health science students *Textbook of Medical Physiology_3rd Edition-E-book* Indu Khurana,Ayushi Khurana,Narayan Gurukripa Kowlgi,2019-11-11 The third edition of this book incorporates thoroughly revised and updated text organized into twelve sections and arranged in three parts Part I General Physiology includes one section having five chapters Part II Systemic Physiology has been arranged into ten sections one on each body system Part III Specialized integrated physiology includes one section comprising of seven chapters Complete and

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