

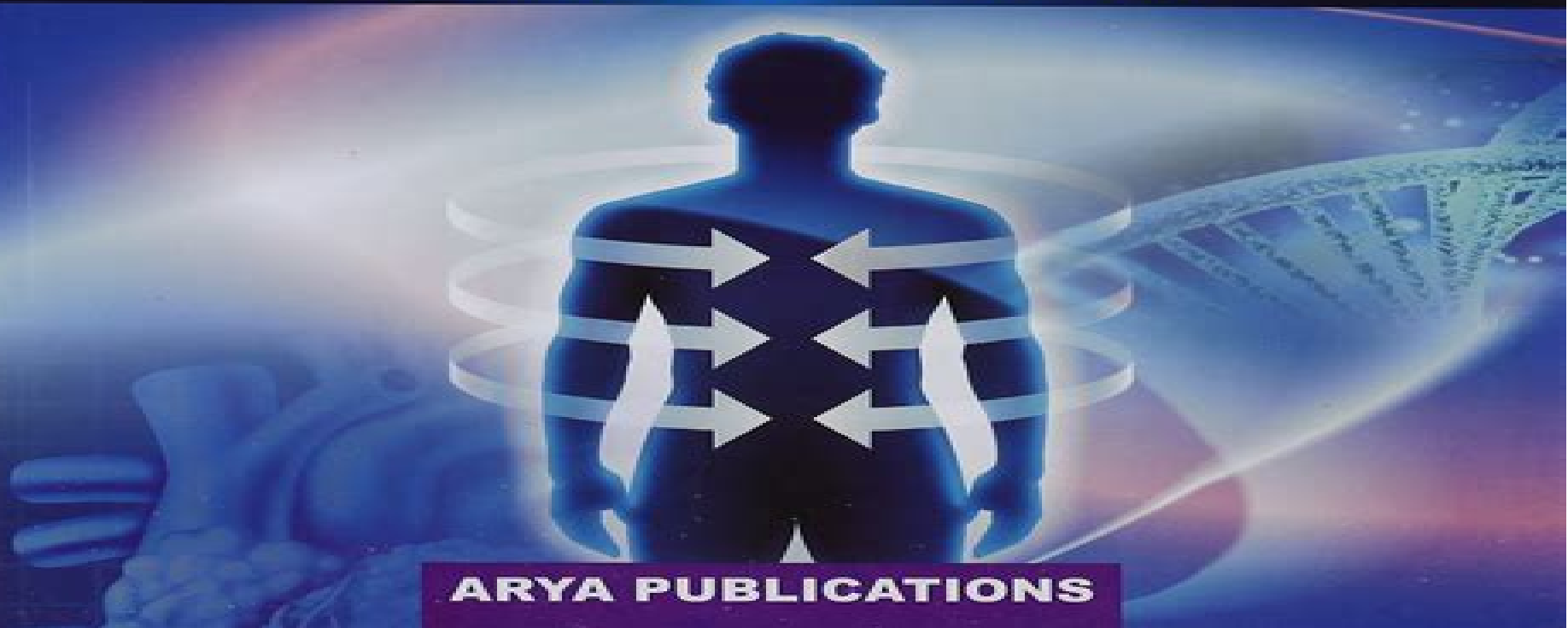
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Textbook Of Medical Physiology Khurana, 2005 The book presents an exhaustive and thorough exposition of the fundamentals of medical physiology The exposition is divided systematically into three sections covering General Physiology Systemic Physiology and Specialized Integrative Physiology Each section begins with a brief Introduction highlighting the topics covered The subject is then explained in a graded manner with a large number of tables flowcharts and diagrams to aid understanding The level of exposition in the book is sufficiently detailed for it to serve as a useful text for undergraduate courses as well as for PG entrance examinations About the Author Indu Khurana Associate Professor Department of Physiology Postgraduate Institute of Medical Sciences Rohtak Haryana India [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

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

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 The general physiology ; Blood ; Nerve muscle physiology ; Digestive system ; Cardio-vascular system (CVS) ; Respiratory system ; Excretory system A. K. Jain,2005 **TEXTBOOK OF PHYSIOLOGY (VOLUMES I AND II).** A.K. JAIN,2023 **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 **Human Physiology in Nutshell** A. K. Jain, 2005 **Manual of Practical Physiology** A.K. Jain, 2003 **Comprehensive Textbook of Medical Physiology** GK Pal, 2019-08-18 This two volume set is a complete guide to medical physiology for undergraduate medical students Beginning with a general overview of the subject the following chapters each provide in depth discussion on the physiology of each anatomical system Each section covers both clinical and applied physiology with topics enhanced by numerous photographs and diagrams The book features the following invaluable learning tools Learning objective defined at the start of each chapter Application boxes key points of applied physiology highlighted in green boxes Clinical boxes core concepts of related diseases and patient management highlighted in pink boxes Important notes miscellaneous information that may be asked in viva voce examinations Chapter summary each chapter ends with a two part summary outlining key concepts of the topic and listing possible long and short questions and viva questions that may be asked in examinations Scientist contributed boxes explain historical links highlighted in orange boxes **Concise Textbook of Human Physiology** Indu Khurana, 2018-04-23 Thoroughly revised and updated second edition retains its well accepted unique style of organization of the text in three parts and twelve sections Presentation of the text with various levels of headings subheadings boldface and italics has been maintained to help the students easily understand retain and reproduce Text has been updated incorporating the recent advances in each section including more aspects of molecular physiology Applied physiology has been updated with recent concepts on pathophysiology and recent advances in the basic investigations and therapeutic principles To further upgrade the book many new figures tables and flowcharts have been added Online Content FAQs with reference for the answers in the book *Principles of Physiology with Free Practical Manual of Physiology* Debasis Pramanik, 2022-10-18 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 complimented 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 **Textbook of Human Physiology** H. D. Singh, 1996 *Human Anatomy and Physiology* A. K. Jain, 2002 Concise Physiology for Undergraduates A. K. Jain, 2005

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