1. Record Nr. UNINA9910298343703321

Titolo	Translational Research in Environmental and Occupational Stress / / edited by Shashi Bala Singh, Nanduri R. Prabhakar, Srinivas N Pentyala
Pubbl/distr/stampa	New Delhi : , : Springer India : , : Imprint : Springer, , 2014
ISBN	81-322-1928-7
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (284 p.)
Disciplina	591.5 610 612.8 615.8515
Soggetti	Medicine Neurosciences Behavioral assessment Occupational therapy Biomedicine, general Behavioral Sciences Occupational Therapy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1: Translating Physiological Knowledge to Health Application -- Chapter 2: Translational Research: Journey from Traditional Wisdom to Rational Science -- Chapter 3: Stress Research Varied Paradigms -- Chapter 4: Therapeutic Potential of Intermittent Hypoxia: Lessons from Respiratory Motor Plasticity -- Chapter 5: High Altitude Research and its Practical Clinical Application -- Chapter 6: Nanomaterials in Healthcare -- Chapter 7: Nano toxicity and Cellular Stress Response: Physical and Chemical Properties and Their Link to Translational Research -- Chapter 8 : HIF-1 and EGLN1 Under Hypobaric Hypoxia: Regulation of Master Regulator Paradigm -- Chapter 9: Electrochemical Biosensors for Hypoxia Markers -- Chapter 10: Determining Nutritional Requirements of Indian Soldiers an Outcome of Translational Research -- Chapter 11: Improvements in Adjuvants for New Generation

Vaccines -- Chapter 12: Rapid Acclimatization Strategies for High Altitude Induction -- Chapter 13: Noise the Silent Killer -- Chapter 14: Yoga for Preventive, Curative and Promotive Health and Performance -- Chapter 15: Technology Translation from Heat Physiology Research -- Chapter 16: Improving Habitability at High Altitude -- Chapter 17: Inhaled Nitric Oxide Therapy for Treatment of High Altitude Pulmonary Edema -- Chapter 18: High Altitude Medicine: The Path from Genomic Insight to Clinical Application -- Chapter 19: Hypoxia in Acute Chemical Emergencies: Toxicity, Mechanism and Treatment -- Chapter 20: Hypertension at High Altitude -- Chapter 21: Herbs for Mitigating High Altitude Maladies -- Chapter 22: Lessons from Twenty Years' Investigations of Intermittent Hypoxia : Principles and Practices.

Sommario/riassunto

Cutting edge technologies can propel a simple finding in basic science to a concept that can be of immense value to the society. While applying novel techniques to unravel the mysteries of biological processes, an offshoot of applied branch emerged. This field, which is now widely referred to as Translational Research utilizes basic science findings and translates these findings into innovative concepts for the benefit of mankind. This branch of science has evolved into a multidisciplinary juggernaut encompassing all known fields of science as varied as biomedicine, environment, law, economics, sociology, etc. With the ever increasing interest in this branch, and the dreams and aspirations that this field can bring, basic science researchers are now taking a bold step into this new realm, merging different fields of knowledge to come up with novel inventions. This book "Translational research in environmental and occupational stress" provides and insight into the research that led to discoveries, inventions and development of novel technologies which will have a tremendous impact on the future of mankind.