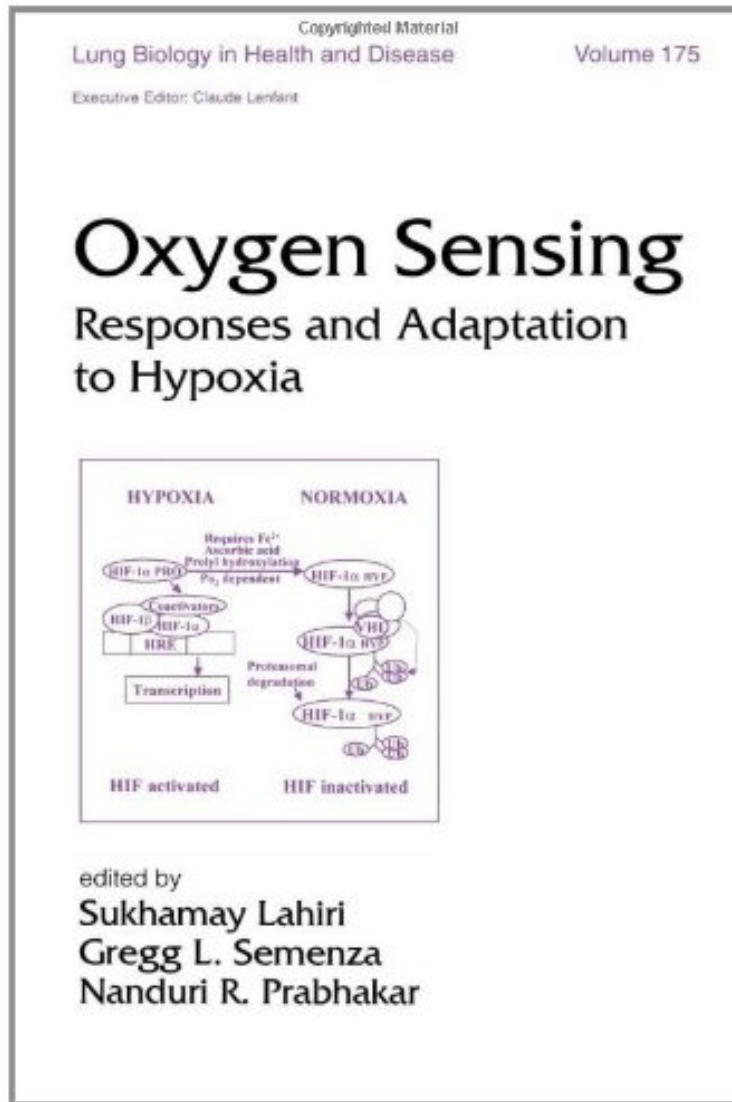


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Oxygen Sensing: Responses and Adaption to Hypoxia (Lung Biology in Health and Disease)

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Reviewing research on the molecular basis of oxygen homeostasis, this text describes the changes in intracellular signalling and gene expression that lead to physiological responses to hypoxia in unicellular, invertebrate, and mammalian species. It examines O₂ sensing systems in bacteria and archaea and demonstrates interrelationships among cell proliferation, energy metabolism, oxygen homeostasis, redox states, signal transduction and gene expression in humans and other organisms. The book describes the effect of hypoxia on carotid body structure and function and the effect of alterations in oxygen homeostasis on the pathophysiology of cardiac ischemia, cancer, stroke, and chronic lung disease.

About the Author Dr. Chandan K Sen is a tenured Professor of Surgery, Executive Director of The Ohio State University Comprehensive Wound Center and Director of the Ohio State University's Center for Regenerative Medicine Cell Based Therapies. He is also the Associate Dean for Research at The Ohio State University Wexner Medical Center. After completing his Masters of Science in Human Physiology from the University of Calcutta, Dr. Sen received his PhD in Physiology from the University of Kuopio in Finland. Dr. Sen trained as a postdoctoral fellow at the University of California at Berkeley's Molecular and Cell Biology department. His first faculty appointment was in the Lawrence Berkeley National Laboratory in California. In fall of 2000, Dr. Sen moved to The Ohio State University where established a program on tissue injury and repair. Currently, Dr. Sen is a Professor and Vice Chair of Research of Surgery. Dr. Sen serves on the editorial board of numerous scientific journals. He is the Editor in Chief of *Antioxidants Redox Signaling* (www.liebertpub.com/ars) with a current impact factor of 8.456. He is the Section Editor of *microRNA of Physiological Genomics*, a journal of the American Physiological Society. Dr. Sen and his team have published over 250 scientific publications. He has a H-index of 64 and is currently cited 2000 times every year. Excerpt. Reprinted by permission. All rights reserved. This volume provides a comprehensive compendium of experimental approaches to the study of oxygen sensing in 48 chapters.