



## Redox Proteins in Supercomplexes and Signalosomes

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**Redox Proteins in Supercomplexes and Signalosomes** is one of the first books to explore the key role played by redox proteins and their interaction network in a wide range of essential cellular processes in all domains of life. The book explains how the mitochondrial respiratory chain is dynamically organized in supercomplexes even under physiological conditions. It also addresses the impact of supercomplex assembly on mitochondrial morphology, physiology, and biogenesis to shed light on the molecular mechanisms of pathological situations, including aging.

*Discover the Connection between Bioenergetic Supercomplexes and Signalosomes*

Compiling state-of-the-art research from leading practitioners in the field, this book gives you guidance on dealing with these biological systems in your investigations. The book shows that supercomplexes and signalosomes provide the link between reductive and systems biology, which enables us to understand how the molecular properties of individual macromolecular components trigger cellular function.



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### Editorial Review

#### Review

"This book covers perfectly the remarkable development and progress achieved in this multi-disciplinary field of modern biosciences. Thanks to the excellent selection of themes and well-recognized authors, it will be extremely useful for a broad scientific community. Clearly a book indispensable for both the expert as well as for the graduate student, bringing together the essential knowledge in a compact and up-to-date manner. The readers are introduced in a professional way to the exciting world of supercomplexes and signalosomes, which will enable them to grasp the state of the art and advancements in this rapidly developing research area."

?Peter M.H. Kroneck, Professor of Biochemistry, Department of Biology, University of Konstanz

#### About the Author

**Ricardo O. Louro** is the leader of the Inorganic Biochemistry and NMR Laboratory at the Instituto de Tecnologia Química e Biológica (ITQB) António Xavier of the Universidade Nova de Lisboa. Dr. Louro is a member of the Portuguese Biochemical Society, the Society for Biological Inorganic Chemistry, and the International Society for Microbial Electrochemical Technologies. His research work focuses on the investigation of the molecular bases for biological electron-transfer phenomena relevant for bioenergetic processes and the applications of this knowledge to blue-, red- or white-biotechnology.

**Irene Díaz-Moreno** is an associate professor of biochemistry and molecular biology in the Instituto de Bioquímica Vegetal y Fotosíntesis (IBVF) at the Centro de Investigaciones Científicas Isla de la Cartuja (cicCartuja). Her past research has focused on molecular recognition between metalloproteins involved in electron-transfer processes and the regulatory mechanisms of mRNA decay by RNA-binding proteins. Dr. Díaz-Moreno is currently developing research projects in biointeractomics as well as on the posttranslational regulation of biological macromolecules.

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