



an Open Access Journal by MDPI

# Reaction Mechanism of the Ferredoxin–Ferredoxin NAD(P)+/H Oxidoreductase System

Guest Editors:

#### Dr. Daisuke Seo

Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Ishikawa 920-1192, Japan

#### Prof. Dr. Narimantas K. Cenas

Institute of Biochemistry of Vilnius University, Saulėtekio 7, LT-10257 Vilnius, Lithuania

Deadline for manuscript submissions: closed (15 December 2021)

### **Message from the Guest Editors**

This Special Issue invites research findings and reviews of recent works which share updates on and enrich our knowledge around FNRs, its isozymes, such as adrenodoxin reductase, putidaredoxin reductase, and its homologues, and Fd/Fld-FNR systems in bacteria, archaea, protozoa, plants, and vertebrate. The issue targets research on a molecular to cellular level: reaction intermediate, electron/hydride transfer reactions, substrate recognition, structure-function relation, supramolecular assembly, response to environmental and drug stresses utilizing spectroscopic, kinetic. and structural analyses, computational science, genomics, proteomics, and metabolomics approaches. We believe that this Special Issue, "Reaction Mechanism of a Ferredoxin-Ferredoxin NAD(P)+/H Oxidoreductase System", will help to highlight the most recent advances on all aspects of Fd-FNR systems.









an Open Access Journal by MDPI

# **Editor-in-Chief**

#### Prof. Dr. Alessandra Napolitano

Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

### Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

# **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Food Science & Technology) / CiteScore - Q1 (Food Science)

### **Contact Us**

Antioxidants Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/antioxidants antioxidants@mdpi.com X@antioxidants\_OA