

Special Issue

Metabolic Enzymes of Thrombo-Inflammatory and Oxidative Stress Mediators in Health and Disease

Message from the Guest Editors

This Special Issue aims to explore the current understanding, advancements, interactions, and future perspectives of inducible enzymes in health and disease related to inflammation, thrombosis, and oxidative stress. It will focus on pro-inflammatory enzymes such as cyclooxygenase (COX) and lipoxygenase (LOX), which synthesize bioactive lipids from arachidonic acid, collectively known as eicosanoids. These enzymes are crucial targets for non-steroidal anti-inflammatory drugs. Additionally, it will cover nitric oxide synthase (iNOS), aldo-keto reductases (AKRs), glutathione transferases (GSTs), metalloproteinases (MMPs), and various pro-/anti-inflammatory enzymes involved in thrombo-inflammatory mediators like platelet activating factor (PAF). The issue will also address pro-oxidant and antioxidant enzymes related to oxidative stress, including superoxide dismutase (SOD), glutathione peroxidase (GPX), and catalase (CAT). Research articles, comprehensive and/or critical, and/or systematic reviews and meta-analysis studies on the above are welcomed to be submitted to this interesting Special Issue.

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