

Special Issue

Molecular Pathways and Emerging Biomarkers in Inflammatory Diseases

Message from the Guest Editor

Controlled by intricate regulatory networks, cooperative and competitive mechanisms orchestrate both the propagation and limitation of the inflammatory response. In turn, dysregulation of these processes may lead to chronic inflammation as the base of various pathophysiological conditions. At the cellular level, the respective molecular pathways may comprise multiple regulatory layers, e.g., the interaction of pro- and anti-inflammatory mediators, expression and composition of relevant receptors, the activation (or inactivation) of various signaling cascades and transcription factors, and the plethora of post-transcriptional and translational modifications (amongst others). To detect the presence and/or progression of such alterations and the resulting diseases, the identification of inflammation- or disease-specific biomarkers is necessary, and stability, ease and reliability of detection, and the necessary sample material are important factors for their suitability. Therefore, this Special Issue aims to elucidate molecular pathways underlying inflammation and identify new biomarkers suitable for improving diagnosis, prognosis, and treatment of inflammatory diseases.

Guest Editor

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