

Special Issue

Molecular Mechanisms of Natural Product-Induced Immune Modulation: From Signaling Pathways to Therapeutic Targets

Message from the Guest Editor

Natural products represent an invaluable source of bioactive compounds with diverse immunomodulatory properties. Despite their long history in traditional medicine, the molecular mechanisms underlying their immune-regulating effects remain incompletely understood. This Special Issue aims to explore how natural products modulate immune responses at the molecular level, bridging traditional knowledge with modern molecular biology. We welcome original research articles, reviews, and communications that investigate the molecular basis of natural-product-induced immunomodulation. Topics of interest include, but are not limited to, the following: mechanisms of immune cell activation or suppression; inflammatory and anti-inflammatory pathways; innate and adaptive immune responses; molecular targets in autoimmune diseases, chronic inflammation, and cancer immunity; host–pathogen interactions and antimicrobial immunity; structure–activity relationships and target identification; biomarker discovery and mechanism-based therapeutic applications; synergistic effects and molecular interactions of natural product combinations; and novel methodologies for studying natural product immunology.

Guest Editor

Prof. Dr. Suyun Lyu

Department of Pharmacy, Suncheon National University, Suncheon 57922, Jeollanam-do, Republic of Korea

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Current Issues in Molecular Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cimb@mdpi.com

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Editor-in-Chief

Prof. Dr. Madhav Bhatia

Department of Pathology and Biomedical Science, University of Otago,
Christchurch, 2 Riccarton Avenue, P.O. Box 4345, Christchurch 8140,
New Zealand

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