

## Special Issue

# Epigenetic Control of the Immune System in Health and Disease

### Message from the Guest Editor

Dear colleagues: The immune system is a combined functional cluster of structures, cells, and cell products that differentiate self from non-self to protect the organism from potentially pathogenic agents or substances, but also to recognize and respect own tissues. Epigenetic mechanisms are key elements for immunity to enable an adequate gene expression pattern of their cells in health and pathogenic situations that can be exposed to that also induces additional epigenetic changes to adapt. During life, in health and disease, complex interactions among genetics, time (and aging), risk factors and deleterious exposures, system responses (adapted or not) and a little luck (or not) can be combined to induce epigenetic changes to adapt (included the immune system). For this Special Issue, we invite manuscripts where epigenetic changes of immune system are described: ontogenic development, immune response in infections or immunosurveillance, autoimmunity, inflammation or immune senescence. The interest of these mechanisms is broad to respond unknown pathophysiological mechanisms, to identify novel therapeutic targets or diagnostic or susceptibility markers.

### Guest Editor

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### Deadline for manuscript submissions

closed (30 September 2021)



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### Message from the Editor-in-Chief

*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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### Editor-in-Chief

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