



## 10th Anniversary of Biomedicines-Immune-Aging

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### Message from the Guest Editor

Dear Colleagues,

Immune aging is defined as the changes in the immune system associated with age. It is a progressive and irreversible process involving a decrease in the number of naïve T and B cells, NK cells' cytotoxic and activity, and disruption of oxi-inflammatory response by altering the production of reactive oxygen species, pro- and anti-inflammatory cytokines, and others. With age, there is an increase in autoimmunity and generalized inflammation with simultaneous immunodeficiency, which results in greater susceptibility to infectious diseases; a decrease in reactivity to prophylactic vaccinations; the incidence of autoimmune diseases; and increased risk of infectious injury complications, exacerbation of symptoms of chronic diseases, and an insufficient response to the presence of cells cancer. For years, based on the analysis of the frequency of viral and bacterial infections, immunological indicators and inflammation, attempts have been made to develop the immune risk profile and effective methods of preventing disorders of the immune system and prolonging the functional capacity in older age.

Dr. Agnieszka Zembrón-Łacny

*Guest Editor*





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