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Macrophages in Health and Non-infectious Disease

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Message from the Guest Editors

Dear Colleagues,

Having first been described more than 100 years ago, macrophages are still the focus of biomedical research. A variety of macrophage markers and functional peculiarities have been described, and it has become clear that in a healthy organism, macrophages are the ones that actively contribute to homeostasis and regulate processes of tolerance. Apart from infectious diseases, it has been demonstrated that macrophages are actively involved in the pathogenesis of socially important non-infectious diseases, such as atherosclerosis, cancer, and diabetes. These findings have expectedly led to identification of macrophages as potential and highly attractive therapeutic targets. In this Special Issue, we want to collect the most recent publications on the mechanisms that macrophages use to regulate homeostasis and their involvement in pathogenesis of non-infectious diseases. We also welcome research describing novel macrophage markers that reflect their functional state or are involved in macrophage tolerance and training.

Dr. Alexei Gratchev
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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