







an Open Access Journal by MDPI

Immune Response and Antigen-Specific Personalized Therapeutics in Multiple Sclerosis-the Upcoming Era of Precision Medicine

Guest Editors:

Dr. Maria Anagnostouli

Director of Multiple Sclerosis & Demyelinating Diseases Unit and Immunogenetics Laboratory, 1st Department of Neurology of Medical School, National and Kapodistrian University of Athens, Aeginition University Hospital, Vas. Sofias Ave 74, 115 28 Athens, Greece

Prof. Dr. George P. Chrousos

University Research Institute of Maternal and Child Health and Precision Medicine, Medical School, "Aghia Sophia" Children's Hospital, National and Kapodistrian University of Athens, 15772 Athens, Greece

Deadline for manuscript submissions:

closed (20 June 2021)

Message from the Guest Editors

Multiple sclerosis (MS) is an autoimmune disorder characterized by T cell-mediated demyelination and neurodegeneration of the central nervous system (CNS), whose exact etiology remains unclear. The autoimmune view of MS is strongly supported by the use of the animal experimental autoimmune encephalomyelitis (EAE) model, which displays some of the key MS characteristics. During the effector phase, CD4+ T cells that recognize antigen proliferate, cross the blood-brain barrier (BBB) and subsequently activate macrophages and microglia that cause demyelination, oligodendrocyte death, and axon degeneration. As the disease progresses, remyelination and regeneration of oligodendrocyte become inefficient and ultimately fail, resulting in disease progression.

This Special Issue aims at gathering articles *on immune response toward personalized therapeutics in MS*, through the contribution of MS specialists around the world, taking into account the progress in the field in the last two decades.







IMPACT FACTOR 7.8





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ralph A. Tripp

Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia, Athens, GA 30602-7387, USA

Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X) has had a 6-year history of publishing peer-reviewed state of the art research that advances the knowledge of immunology in human disease protection. Immunotherapeutics, prophylactic vaccines, immunomodulators, adjuvants and the global differences in regulatory affairs are some of the highlights of the research published that have shaped global health. Our open access policy allows all researchers and interested parties to immediately scrutinize the rigorous evidence our publications have to offer. We are proud to present the work and perspectives of many to contribute to future decisions concerning human health.

Author Benefits

Open Access: free for readers, with <u>article processing charges (APC)</u> paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Immunology) / CiteScore - Q1 (Pharmacology (medical))

Contact Us