

Special Issue

Innovative Approaches to Antibody-Mediated Therapies for Infectious Diseases

Message from the Guest Editors

Antibody-mediated therapies are revolutionizing the fight against infectious diseases, offering new and innovative approaches to prevention and treatment. Monoclonal antibodies (mAbs) mimic the natural antibodies the body generates to combat infections. MAbs are engineered to specifically target and neutralize pathogens or block their ability to infect cells. However, a mAb targeting a specific epitope will allow escape variants to excessively grow, causing new variant strains to become dominant and resistant to treatment using that mAb. Methods to mitigate escape include adding mAbs to cocktails, creating scFv, bi-specific, or [antibody drug conjugates](#), but these strategies have also been challenged by the potential development of escape mutations. New technologies Also, other techniques like effector function, prolonging the half-life, reducing immunogenicity, and targeting conserved pathways are actively being applied to modify antibodies to enhance their efficacy and safety in treating infectious diseases.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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