

Editorial

# Immune Discovery: A New Open-access Journal to Share Your High-quality Research in Immunology

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Immunology stands as a principal driving force behind the advancement of modern biomedicine and life sciences. It is a frontier discipline that bolsters modern medicine, experiencing unprecedented growth and vitality. This is evident in the continuous refinement of the foundational immunology theory, the deeper understanding of the initiation, regulation, and outcomes of immune responses, and the ongoing revelation of the structural basis and functional significance of interactions between immune cells and molecules.

The advancement and utilization of high-throughput multi-omics technology, whole-genome-wide functional screening technology, and cell sorting and data computing technology have facilitated the identification of novel immune cell subsets, markers, and functions. This has significantly enhanced our comprehension of the mechanisms underlying immune responses and immune tolerance. Additionally, the adoption of whole-genome screening, transgenic and gene knockout technology, as well as structural and synthetic biology technology, has advanced our comprehension of immune molecules. This has allowed for the elucidation of the structure and function of new CD molecules, adhesion molecules, cytokines and their receptors, pattern recognition receptors, and their intracellular signaling molecules.

Moreover, ongoing research has unveiled the role of immunity in diseases, shedding light on immune abnormalities and inflammatory imbalances in regional and systemic diseases. This has provided new insights for understanding and treating neurological diseases, psychological diseases, endocrine diseases, cardiovascular diseases, and beyond. The convergence of immunology and clinical medicine has given rise to numerous branches such as immunopathology, immunopharmacology, infection immunology, tumor immunology, transplantation immunology, blood immunology, and neuroimmunology. These advancements have greatly contributed to the progress of modern medicine.

With the continuous evolution of human living conditions and the environment, the prevalence of issues such as tumors, autoimmune diseases, allergic diseases, neuropsychological diseases, obesity, aging, and cardiovascular diseases is becoming increasingly pronounced. This presents new challenges for immunological research. As we look to the future, numerous significant problems and challenges in theoretical research and practical application of immunology await exploration by researchers.

In order to provide researchers with a platform to communicate their research findings in the field of immunology, we have made the decision to launch **Immune Discovery** in 2025.

**Immune Discovery** is a peer-reviewed, open-access journal that seeks to publish original, high-quality research encompassing all aspects related to immunity. We welcome original articles, reviews, communications, and perspectives. The journal's scope includes, but is not limited to: Molecular immunology, Cellular immunology, Innate and adaptive immunity, Anti-infection immunity, Cancer immunology, Immunopathology, Immunotherapy, Immunogenetics, Immunopharmacology, Neuroimmunology, Reproductive immunity, Autoimmune disease, Allergy, Mucosal immunity, and Immune metabolism.

We hope that this opportunity will be embraced by all, leading to the collective enhancement of the global research level in immunology. Let us work together to achieve more theoretical and technological breakthroughs, and contribute our insights to global development.