

Special Issue on
Immunology of Helminth Infection in Human and Animal

CALL FOR PAPERS

Helminths are eukaryotic multicellular parasites infecting various organs of human and domestic and wild animals and account for significant rates of morbidity and mortality. Estimates indicate that about one-third of the human population is infected with one or more helminthic parasites. The level of infestation is equally common among animals. The magnitude and enormity of these public and veterinary health concerns drive the interest of scientists to study the principal components of immunity to these parasites. Although robust host immune responses are elicited against helminthes, especially against tissue invading helminths, these parasites still have strong and complicated evasion mechanism to complete their life cycles. Despite several decades of research, we have limited understanding about the basic mechanism of immune evasion to ultimately be able to develop effective vaccines or therapeutic approaches against helminthic diseases.

We are inviting manuscripts investigating advances and progress in the field of parasite immunology specifically dealing with human and animal helminthes which reportedly cause considerable rates of mortality and morbidity, in addition to causing measurable economic losses to the communities. This special issue is aimed at becoming a global consortium for different investigators to present their up-to-date scientific discoveries, opinions, and developments in this area of biomedical sciences, which are largely neglected owing to the direct association of parasitic infections and poverty, a major issue for developing world.

Potential topics include but are not limited to the following:

- ▶ Innate immune responses to helminths
- ▶ Adaptive immune responses to helminths
- ▶ Cellular immune responses
- ▶ Humoral immune responses
- ▶ Mucosal immunity
- ▶ Role of specific components of the immune response (e.g., complement, Th1, Th2, Th17, Treg, and NK cells and monocytes, cytokines, and chemokines)
- ▶ Vaccinology including encapsulation technologies and vaccine delivery, helminth antigenicity, adjuvants, and immunomodulatory mechanisms
- ▶ Helminth detection: development of immunoassays
- ▶ Translational immunology to current veterinary and public health practice

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jtm/imvhi/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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