



Journal of Immunology Research

Special Issue on Innate T Cell Development and Functions in Immune Diseases

CALL FOR PAPERS

Innate T cells, including NKT cells, $\gamma\delta$ T cells, and MAIT (mucosa-associated invariant T cells), execute essential functions as a first-line of immune defense at multiple specialized locations. Due to their relative rarity in the body, innate T cells often do not get as much scientific attention as other components of the immune system. However, a growing number of studies have demonstrated that innate T cells play crucial roles in defending the body against insults from pathogens and tumors, either directly or through the tuning of adaptive immunity. To properly evaluate the physiological function of innate T cells, two important points must be taken into consideration. First, innate T cells are indeed the major lymphoid components of certain anatomical locations, such as in liver, gut, and skin. Second, innate T cells act during different points of ontogenesis, and at different stages of the immune response. Deciphering the molecular mechanisms underlying innate T cell development and homeostasis will aid efforts to understand their behavior and functions. Ultimately, comprehending the biology and function of innate T cells will lead to approaches that can efficiently and systematically enhance or reprogram immunity under certain physiological or pathological circumstances.

The purpose of this special issue is to publish novel and original research articles that explore the signaling pathways controlling innate T cell development and/or that determine the precise role of innate T cells in different aspects of the immune response. This special issue also invites the submission of reviews regarding these topics.

Potential topics include, but are not limited to:

- ▶ Development, selection, and homeostasis of NKT cells and $\gamma\delta$ T cells
- ▶ Molecular regulation of innate T cell development and functions
- ▶ Control of effector differentiation of innate T cells
- ▶ Identification of innate T cell antigens
- ▶ Innate T cell receptor repertoire studies
- ▶ Role of innate T cells in antitumor responses
- ▶ Functions of innate T cells in infection, asthma, inflammation, and wound healing
- ▶ Specific innate T cell subsets and their roles in different immune responses
- ▶ Innate T cells and human diseases
- ▶ Innate T cells as biomarkers and therapeutic targets
- ▶ Regulation of adaptive immunity by innate T cells

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jir/tcdf/>.

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First Round of Reviews

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