# **Special Issue**

# T Cells: Differentiation and Function in Immunity and Disease

## Message from the Guest Editors

T cells have a central role in adaptive immunity, and are essential for tumour surveillance as well as response to allergens and pathogens. The balance between the development of T cells and their target recognition is essential for effective immune responses, the maintenance of homeostasis and the generation of immunological memory. In this review, we will discuss new insights into how T cells develop and provide essential protection in different health and disease models. We will also investigate the influence of tissue localization, interaction with other cells and subset delineation in determining T cell roles, and how new therapies harness the potential of these cells to prevent immunopathology, trigger protective immunity through vaccines or therapeutic effect through immunomodulatory drugs. This Special Issue will examine the development of diverse T-cell subpopulations: in vivo and in vitro models to study Tcell biology and vaccinology; T-cell roles in disease and health; the interplay between T cells and other immune subsets; and new therapeutic or prophylactic approaches that utilize T cells as central players to provide a beneficial effect.

#### **Guest Editors**

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## Deadline for manuscript submissions

closed (31 August 2023)



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## Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. Cells encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

### **Editors-in-Chief**

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