

Special Issue

Immune Cells from Pluripotent Stem Cells

Message from the Guest Editor

Immune cells exhibit diverse functions such as maintaining homeostasis, defense against pathogens, and regulating immune responses. Immune cells include T cells, B cells, macrophages, natural killer (NK) cells, dendritic cells, and even platelets. These are differentiated from hematopoietic stem cells. Recently, with the commercialization of CAR-T cells for cancer treatment, interest in immune cell therapy is increasing. However, immune cells isolated from the human body have several limitations, including availability, variability between donors, and challenges in large-scale manufacturing. Pluripotent stem cells (PSCs) offer a promising alternative due to their unlimited self-renewal and ability to differentiation into various cell types under appropriate conditions. PSCs can also be genetically engineered and differentiated into different immune cell types, potentially overcoming limitations of primary immune cells. This Special Issue will examine the methods of differentiation and efficacy in vitro and in vivo of immune cells from PSCs.

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Deadline for manuscript submissions

closed (30 April 2026)



Cells

an Open Access Journal
by MDPI

Impact Factor 6.0
CiteScore 11.4
Indexed in PubMed



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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.

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