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The Role of Macrophages in Physiological and Pathophysiological Inflammation

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Message from the Guest Editor

In this Special Issue, we will address how different macrophage subsets contribute to the onset or resolution of inflammation. We will discuss the receptor signalling pathways, as well as the underlying metabolic reprogramming that leads to the production of inflammatory or anti-inflammatory molecules. The metabolic and epigenetic rewiring of macrophages also promotes the generation of an innate form of immune memory called “trained immunity”. Training macrophages may either lead to an augmented immune response to a secondary stimulus, as initially described for *Bacillus Calmette Guérin* (BCG), or to a state of hypo-responsiveness, such as that observed in endotoxin tolerance. The major goal of this article collection is to improve our understanding of host immune responses to microbial aggression, fostering the development of novel therapeutic approaches.



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Special Issue



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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.

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