# **Special Issue**

# The Role of Toll-Like Receptors (TLRs) in Infection and Inflammation: Third Edition

## Message from the Guest Editors

Toll-like receptors (TLRs) represent a powerful system for the recognition and elimination of pathogenassociated molecular patterns (PAMPs) from bacteria, viruses, and other pathogens and of damageassociated molecular patterns (DAMPs) released from dving or lytic cells. TLRs are mainly expressed on immune cells but can also be present on some tissueresident cell populations. Typical PAMPs are cell wall components of bacterial and viral pathogens, conserved proteins, or pathogenic nucleic acids, including viral RNA and DNA. Activation of TLRs leads to the production of proinflammatory cytokines and type I interferons, which are important for the induction of the host immune response against bacterial, fungal, and viral infections and malaria. However, dysregulation and overstimulation can be detrimental, leading to hyperinflammation, sepsis, and loss of tissue integrity. Altogether, activation of TLR plays a deciding role in both the induction of immunity and the pathophysiological effects associated with excessive activation. For more information, please visit the following webpage:

https://www.mdpi.com/journal/ijms/special\_issues/X8D DZZJZOH

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### Deadline for manuscript submissions

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