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Role and Regulation of Toll-Like Receptors and Signalings in Development and Disease

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Message from the Guest Editors

Over the last 40 years, Toll-like receptors (TLRs) have been one of the most developed research topics. TLRs can recognize both invading pathogens and endogenous danger molecules released from dying cells and damaged tissues, and play a key role in linking innate and adaptive immunity. And there is growing evidence of their involvement in developmental processes and morphogenesis, both in non-mammals and mammals organisms.

Dysregulation of the expression of TLRs was found to possibly lead to a condition of chronic inflammation that can support the onset of several inflammatory and immune-mediated diseases, and other inflammation-associated diseases. TLR antagonists and inhibitors at various stages are a promising therapeutic strategy for these inflammatory and autoimmune diseases.

Therefore, topics in this Special Issue will include (but are not limited to):

TLRs in regulating the immune response against pathogens and tumor cells; TLRs in autoimmune diseases; TLRs in neurological disorders; New therapeutic approach in immunotherapy; TLRs role in development; TLRs and drug discovery research; TLR-targeting drugs.



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Special Issue



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