

Special Issue

Molecular Mechanisms and Therapy in Autoimmune Disease

Message from the Guest Editor

As autoimmune disease remain a major medical concern and the mechanisms responsible for their pathogenesis are still incompletely understood, new insights in this field are needed. Various cellular, molecular, and physiological mechanisms have been suggested as potential triggers for the loss of self-tolerance, which make immune cells unable to distinguish among “self” and “non-self” antigens. Cellular mechanisms coupled with various mechanisms at the molecular level initiate dysregulated intercellular communication and are involved in the pathogenesis of autoimmune disease.

New data into genetic susceptibility suggest that environmental triggers could act via cellular pathways containing disease-associated polymorphisms. The full and deep understanding of these mechanisms will allow an adapted therapy. Recent treatments are expected to simultaneously and specifically target several pathways in autoimmunity. Due to the heterogeneity of autoimmune mechanisms, the knowledge in this area are expected to lead to a personalized molecular medicine approach in the field of autoimmune disease.

Guest Editor

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