Special Issue

Precision Medicine in Autoimmunity

Message from the Guest Editors

Autoimmune diseases are chronic and heterogeneous conditions that evolve over a long period of time. Due to their unspecific symptoms during the early stages, diagnosis can be challenging and strongly relies on reliable biomarkers and combinations thereof. More specifically, early diagnosis and treatment is imperative to prevent irreversible organ damage. In addition, stratification of patients into more homogenous and meaningful subsets regarding prognosis and treatment response opens new avenues for improved patient care in autoimmunity. In the field of autoantibody testing, evidence is mounting that autoantibody profiles can provide valuable insights, especially when paired with artificial intelligence. Examples include (but are not limited to) diseases such as systemic lupus erythematosus, idiopathic inflammatory myopathies, rheumatoid arthritis and systemic sclerosis. This Special Issue on Precision Medicine in Autoimmunity will focus on recent progress on novel biomarkers, novel multi-analyte technologies and the application of artificial intelligence for model development.

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