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Omics Approaches to Immune-Mediated Inflammatory Diseases: Towards Novel Biomarkers and Potential Therapeutic Targets

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Message from the Guest Editor

Dear Colleagues,

Chronic immune-mediated inflammatory diseases (IMIDs), including autoimmune and non-autoimmune conditionsrheumatoid and psoriatic arthritis. systemic lupus erythematosus, inflammatory bowel disease, Crohn's disease, ulcerative colitis, multiple sclerosis, etc. Recent technological advances have facilitated high-throughput omics approaches (genomics, transcriptomics, epigenomics, proteomics, metabolomics) the for evaluation of critical molecular compartments involved in the development and perpetuation of IMIDs. Unveiling key players governing their pathogenesis and progression may pave the way for the detection of novel biomarkers for disease prognosis and therapy response monitoring while suggesting potential therapeutic targets. Bulk and singlecell omics, multi-omics flow cytometry, next-generation microscopy and systems biology are among current approaches expected to provide useful tools to be applied in daily clinical practice.

This Special Issue aims at gathering recent data from omics studies on IMIDs that could possibly serve as novel biomarkers and/or therapeutic targets.

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- IMIDs
- IBD
- Crohn's disease
- bulk and single-cell omics





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Message from the Editor-in-Chief

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