Special Issue

Advances in Precision Medicine and AI in Rheumatology and Arthritis

Message from the Guest Editor

The field of rheumatology is undergoing a significant transformation, moving beyond traditional therapeutic approaches for inflammatory joint diseases and connective tissue diseases. This evolution is driven by unprecedented advances in therapy, particularly the development of innovative targeted biologic and targeted-synthetic drugs, which have revolutionized patient outcomes. The field is increasingly leveraging cutting-edge technologies to usher in an era of precision medicine.

The current frontier lies in translating complex biological and clinical data into actionable insights. The implementation of AI and machine learning is becoming pivotal for analyzing large datasets, enabling the integration of multi-omics. This integration is crucial for the discovery and validation of new diagnostic and prognostic biomarkers.

This Special Issue aims to capture the full spectrum of this progress. We are interested in topics such as novel therapeutic targets, clinical trials of new drugs, AI applications in diagnostic imaging or patient stratification, multi-omics studies for biomarker discovery, and innovations in digital health for disease activity monitoring.

Guest Editor

Dr. Tsvetoslav Georgiev
First Department of Internal Medicine, Faculty of Medicine, Medical University–Varna, 9002 Varna, Bulgaria

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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