

Special Issue

Molecular Precision Medicine: Unraveling Disease Mechanisms, Targeted Therapeutics and Innovative Diagnostics

Message from the Guest Editor

The concept of “one treatment for all” represents the hope that we can cure disease with a singular modality of treatment. This is possible for some diseases but not most, and it is especially is not true for cancer, neurodegenerative and cardiometabolic disorders, inflammatory bowel disease (IBD) and others. There has been a paradigm shift in personalized treatment/medicine to focus on the patient with a disease and not the disease in a patient. Personalized medicine has accelerated the need for rapid information gathering about patients with diseases to understand how to treat them by acquiring a detailed molecular understanding of their disease. Today, the success of molecular precision medicine is heavily dependent on non-invasive rapid biomarker analysis utilizing very low amounts of biological fluids to truly accelerate diagnosis and treatment. The focus of this Special Issue is to highlight these advancements and describe the future needs of personalized medicine.

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