



Novel Biomarkers and Technologies in the Research and Diagnosis of Human Diseases

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Message from the Guest Editor

Coincident with progress in basic and translational sciences, novel technologies, such as nucleic acid amplification tests, proteomics and next-generation sequencing, have been widely employed in the research, diagnosis and management of human diseases. These novel diagnostic and therapeutic techniques not only provide more sensitive and specific approaches to providing enhanced patient care, but also offer advanced tools with which to discover and study novel biomarkers (e.g., novel molecular targets, protein biomarkers and clinical indexes) in order to characterize the underlying mechanisms of pathogenesis, disease severity and prognosis. Notably, the emergence of novel technologies and biomarkers has led to more challenges and opportunities in the validation and verification of their clinical application, the thorough evaluation of their clinical utility, as well as the correlation between new and traditional biomarkers/techniques. This calls for a careful investigation of these topics and an improved R&D process in order to suitably utilize these novel biomarkers and technologies.





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Message from the Editor-in-Chief

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