

Special Issue

Novel Omic Markers for Diseases Diagnosis

Message from the Guest Editor

Many common diseases, such as diabetes, cancer, some autoimmune disorders or Alzheimer's disease, are caused by a combination of genetic, environmental and lifestyle factors. These so-called complex diseases do not follow the Mendelian inheritance patterns, and harboring a predisposing allele does not guarantee the appearance of the disease. In the early 2000s, the development of the array technology allowed the implementation of genome-wide association studies (GWAS) for the identification of the genetic susceptibility factors for most common diseases, with limited success. Other omics technologies have been developed more recently, including epigenomics, transcriptomics, proteomics, metabolomics and microbiomics, providing alternative views of molecular defects, inherited or not, predisposing to the disease. The potential of these technologies, and more importantly, the potential of the integration of different layers of information about cell biology, has not been yet been fully exploited. This Special Issue welcomes original work and review articles on novel omic markers for common diseases, with a special interest in the integration of different technologies.

Guest Editor

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