

Editorial



Proteomics

Today, a broad range of cell & molecular biology techniques are available in medical research. Among them, Proteomics provides an insight on identities, quantities, structures, and biochemical functions of complete set of proteins expressed in a tissue, cell or an organelle, and how these properties vary among time and specific physiological states. It should be mentioned that this novel high technology multidisciplinary field is a science rather than a tool. Therefore it truly represents "the post-genomic challenge" by which the evolution of diseases and influence of treatments could be investigated much better than genomics approach. Medical proteomics offer a great opportunity to raise new queries and related answers about the mechanism of biological disorders. It allows classification of diseases based on their molecular profile (proteins), shed light on pathobiology of disorders, establishes a new precise tool in prognosis and diagnosis, and provides a surprising approach for investigating therapeutic targets. Medical proteomics provides a promising prospect for many patients with refractory diseases as its primary signs have started to be emerging. Many physicians believe that medical proteomics will change the future of today's medical practice and give a novel definition to concepts of disease, health and ageing.

Seyed Hassan Moghaddamia, Editorial Team Chairman