

عنوان مقاله:

Metabolomics and Personalized Medicine: Benefits and Challenges in Undeveloped Countries

محل انتشار:

دومین کنگره بین المللی پزشکی شخصی (سال: 1396)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Abbas Ahmadi - *PhD of Molecular Medicine, Cellular and Molecular Research Center, Kurdistan University of Medical Sciences, Sanandaj, Iran*

Zandi Zandi - *B.Sc. of Medical Laboratory Technology, Student Research Committee, Kurdistan University of Medical Sciences, Sanandaj, Iran*

Ali Salehi - *B.Sc. of Medical Laboratory Technology, Student Research Committee, Kurdistan University of Medical Sciences, Sanandaj, Iran*

Ali Tahmasebi - *B.Sc. of Medical Laboratory Technology, Student Research Committee, Kurdistan University of Medical Sciences, Sanandaj, Iran*

خلاصه مقاله:

Small molecules (metabolites) play key roles in all biological systems. Their comprehensive study provides the potential to understand physiology and pathobiology of human diseases. Metabolomics permits total, concurrent, and complete study of metabolites in a cell, tissue, organ or biological being. Due to complex genetic diversity, the results may vary among affected persons, from person to person, and also population to population. Different analytical approaches and tools can be used in this field. After an extensive search in the Google Scholar and PubMed, related articles were chosen and summarized. Here we discuss the challenges for the use of metabolomics as a powerful disease biomarker. We will also address its uses for the finding of diseases biomarkers and treatment in the precision medicine. In conclusion, metabolomics, is reforming our concept regarding the pathobiology, diagnosis, prognosis, and treatments in the current medicine era. However, as it is based on the individual and population diversities, the main challenges and obstacles for its uses in undeveloped countries are the lack of comprehensive population based studies. So, establishing powerful research and working groups for collecting bio-fluids and founding a reliable and robust bio-banking system is recommended.

کلمات کلیدی:

metabolomics, challenges, precision medicine, bio-bank

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