

Biography

Dr Sonja Pavlovic is a Principal Investigator in the Laboratory for Molecular Biomedicine at the Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Serbia. She received her PhD in Molecular Biology from the University of Belgrade. Her research interests include: molecular genetics of rare diseases, hematological malignancies and pharmacogenomics. She has published more than 100 peer-reviewed journal articles and book chapters, cited more than 300 times. Dr Sonja Pavlovic was a coordinator of two EU FP7 projects. She has introduced numerous molecular genetic diagnostic tests in medical practice in Serbia. Teaching activities of Sonja Pavlovic include seminars and courses at the Faculty of Biology and School of Medicine, University of Belgrade. She has been the supervisor of more than 30 undergraduate, master and doctoral theses.

Lecture Summary

Nowadays, it is thought that all human diseases have a genetic component. A fascinating recent improvement of modern technology for human genetic profiling led to the introduction of the principles of personalized medicine in clinical practice. Personalized medicine principles have a tendency to reach an individualized treatment of each patient and include the use of genetic variants as markers for diagnosis, prognosis, prevention and targets for treatment. Predictive genetic testing represents the analysis of an individual to define genetic risk factors and determinants of health and disease. It is a base for preventive medicine. Personal genetic profiling, leading to personalized medicine and predictive genetics, is available in Serbia. The medicine of future is knocking on the door. Are we ready to let it in?