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Personalized and precision medicine as a unique healthcare model to be set up via genomics-based innovations, big data resources and translational applications to secure the human wellness and biosafety

A new systems approach to diseased states and wellness result in a new branch in the healthcare services, namely, personalized and precision medicine (PPM). To achieve the implementation of PPM concept, it is necessary to create a fundamentally new strategy based upon the subclinical recognition of biomarkers of hidden abnormalities long before the disease clinically manifests itself. Each decision-maker values the impact of their decision to use PPM on their own budget and well-being, which may not necessarily be optimal for society as a whole. It would be extremely useful to integrate data harvesting from different databanks for applications such as prediction and personalization of further treatment to thus provide more tailored measures for the patients resulting in improved patient outcomes, reduced adverse events, and more cost effective use of the latest health care resources including diagnostic (companion ones), preventive and therapeutic (targeted molecular and cellular) etc. A lack of medical guidelines has been identified by responders as the predominant barrier for adoption, indicating a need for the development of best practices and guidelines to support the implementation of PPM! Implementation of PPM requires a lot before the current model “physician-patient” could be gradually displaced by a new model “medical advisor-healthy person-at-risk”. This is the reason for developing global scientific, clinical, social, and educational projects in the area of PPM to elicit the content of the new branch.

Biography

Sergey Suchkov was graduated from Astrakhan State Medical University in 1980, and he was awarded with MD. In 2001, maintained his Doctoral Degree at the National Institute of Immunology, Russia. From 1989 through 1995, he was Head of the Clin Immunol Lab, Helmholtz Eye Res Inst, in Moscow. From 1995 through 2004 – he was Chair of the Dept for Clin Immunol, Moscow Clinical Research Institute (MONIKI). In the years 1993-1996, he was a Secretary-in-Chief of the Editorial Board, Biomedical Science, and an international journal published jointly by the USSR Academy of Sciences and the Royal Society of Chemistry, UK. Currently he is working as a Professor, Director, Center for Personalized Medicine, Sechenov University and Chair, Dept. for Translational Medicine, Moscow Engineering Physical Institute (MEPhI), Russia and also as a Secretary General, United Cultural Convention (UCC), Cambridge, UK.

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