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Personalized and precision medicine as a unique avenue to have the healthcare model renewed to secure the national biosafety: To get cancer treated or cured?

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 the majority of 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.

Recent Publications

1. Suchkov, Sergey & Harry, Schroeder & Gabibov, Aleks & Rose, Noel. Antibodies with Functionality as a New Generation of Translational Tools designed to be programmed to secure Bio design and Bioengineering of the Future to come. J of Comp. Methods in Mol. Design, 2020, 10(3).
2. Suchkov, Sergey & Notkins, Abner & Marshall, Trevor. Personalized & translational medicine as a tandem of the new philosophy, updated mentality and technological platforms. Meta Gene, 2018, 17. S1-S2.
3. Suchkov, Sergey & Rose, Noel & Studneva, Mariya. How to develop a medical school of the newest generation: from canonical integrity through a bridge of the challenge to the multi-integrative approach. Meta Gene, 2018, 17. S6.

Biography

Sergey V. Suchkov is a Professor, Director, Center for Personalized Medicine, I.M.Sechenov first Moscow State Medical University and Dept of Clinical Immunology, A.I.Evdokimov Moscow State Medical and Dental University; Professor, Chair, Dept for Translational Medicine, Moscow Engineering Physical Institute (MEPhI), Russia Secretary General, United Cultural Convention (UCC), Cambridge, UK. He is a member of the Editorial Boards of “Open Journal of Immunology”, EPMA J., American J. of Cardiovascular Research and “Personalized Medicine Universe”.

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