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# Predictive, Preventive and Personalized Medicine & Molecular Diagnostics

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### Personalized and precision medicine (ppm) as a healthcare model of the newest generation to secure the national and international biosafety

A new systems approach to diseased states and wellness result in a new branch in the healthcare services, namely, personalized & 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 bio predictors 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 health care resources. 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.

### Biography

S Suchkov graduated from Astrakhan State Medical University in 1980 and was awarded with MD. In 1985, he completed PhD from I M Sechenov Moscow Medical Academy and Institute of Medical Enzymology. In 2001, he completed his Doctor Degree at the National Institute of Immunology, Russia. From 1989 to 1995, he was Head of the Lab of Clinical Immunology, Helmholtz Eye Research Institute in Moscow. From 1995 through 2004, he is a Chair of the Dept. for Clinical Immunology, Moscow Clinical Research Institute (MONIKI). In 1993-1996, he was a Secretary-in-Chief of the Editorial Board, *Biomedical Science*, an international journal published jointly by the USSR Academy of Sciences and the Royal Society of Chemistry, UK. At present, he is Professor and Chair, Department for Personalized and Translational Medicine, I M Sechenov First Moscow State Medical University and Department of Clinical Immunology, A I Evdokimov Moscow State Medical and Dental University. He is a member of the Editorial Boards of *Open Journal of Immunology*, *EPMAJ*, *American J of Cardiovascular Research and Personalized Medicine Universe*. He was the Head of the Lab of Clin Immunol at Helmholtz Eye Res Inst in Moscow from 1989 to 1995. He was a Chair in the Dept. for Clin Immunol at Moscow Reg Clin Res Inst from 1995 to 2004. He has been trained at: NIH; Wills Eye Hospital, PA, USA; University of Florida in Gainesville; UCSF, S-F, CA, USA; Johns Hopkins University, Baltimore, MD, USA. He was an Executive Secretary-in-Chief of the Editorial Board, *Biomedical Science*, an international journal published jointly by the USSR Academy of Sciences and the Royal Society of Chemistry, UK. At present, he is a Director of the Center for Personalized Medicine, Sechenov University and Chair in the Dept. for Translational Medicine at Moscow Engineering Physical Institute (MEPhI), Russia. He is a member of New York Academy of Sciences, USA; American Chemical Society (ACS), USA; American Heart Association (AHA), USA; EPMA (European Association for Predictive, Preventive and Personalized Medicine), Brussels, EU; ARVO (American Association for Research in Vision and Ophthalmology); ISER (International Society for Eye Research); PMC (Personalized Medicine Coalition), Washington, USA.

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