

Analytical Technologies in PPPM

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Abstract

Analytical technologies in Predictive, Preventive, and Personalized Medicine (PPPM) play a crucial role not only in analysing biological materials collected from patients, such as whole blood, plasma, saliva, and urine, but also in examining the surrounding environment, which significantly impacts individual health. Increasingly, it is evident that environmental analysis should be integrated into PPPM, enhancing prediction, prevention, and personalized approaches to patient care in future healthcare.

About the lecturer

Dr Marko Kapalla holds a distinguished career in clinical laboratory diagnostics and personalized medicine. He graduated with an MSc in Biochemistry from Comenius University in Bratislava in 1994 and earned an RNDr in Physical Chemistry in 2001. In 2014, he completed his PhD in Normal and Pathological Physiology. He gained practical experience in advanced molecular biology techniques during his studies at the University of Vienna, Austria, and through study visits at the University Hospital Bonn, Germany.

Since 1998, Dr Kapalla has worked extensively in clinical laboratory diagnostics, serving as a specialized clinical biochemist, head of a clinical laboratory, consolidation and integration manager, and corporate quality manager under ISO 15189. In 2008, he became one of the founding members of EPMA (European Association for Predictive, Preventive, and Personalized Medicine), where he currently serves on the Board of Directors as the National Representative for Slovakia. In 2021, he was elected EPMA Vice-President. Between 2021 and 2023, he also served as an external examiner of PhD theses at Edith Cowan University in Perth, Australia.

Since 2018, Dr Kapalla has been the CEO of the PPPM Centre, focusing on the practical application of Predictive, Preventive, And Personalized Medicine. He is an associate editor of The EPMA Journal and a regular reviewer for the publication. Additionally, he sits on the Executive Board of the Slovak Society of Clinical Biochemistry.

Dr Kapalla has authored and co-authored over 67 publications, including two books and seven book chapters. He has delivered over 50 invited lectures at national and international conferences on laboratory diagnostics and PPPM.