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Dr. Alexander Kel is a CEO & CSO of a bioinformatics company geneXplain GmbH, Wolfenbüttel, Germany. He is also holding a position of visiting Professor at Royal College of Surgeons in Ireland (RCSI), Dublin, Ireland. Alexander Kel received his Ph.D. in Bioinformatics, Molecular Biology and Genetics in 1990. He studied biology and mathematics at Novosibirsk State University and obtained his M.S. in biology with special focus on mathematical biology in 1985. The research experience of Dr. Kel in Bioinformatics totals in more than 35 years. He worked in almost all branches of current bioinformatics: sequence analysis, gene recognition, promoter/enhancer analysis and prediction, prediction of RNA secondary structure, analysis of signal transduction pathways and identification of drug targets and systems biology and systems medicine. He is a coauthor of TRANSFAC database and multi-omics AI-based tool Genome Enhancer. He has created a novel concept of “fuzzy puzzle” to model the combinatoric nature of gene regulatory regions in genome. Dr. Kel has also developed a modeling approach, called “upstream analysis”, which was applied for identification of causative biomarkers and drug targets in cancer, IBD, COPD, Parkinson’s disease, and other disease conditions in more than 20 national and international research projects. He is the author of more than 140 scientific publications and several chapters in books on bioinformatics and systems biology.