

Written by leading experts from industry and academia, this first single comprehensive resource addresses recent developments in next generation DNA sequencing technology and their impact on genome research, drug discovery and health care. As such, it presents a detailed comparative analysis of commercially available platforms as well as insights into alternative, emerging sequencing techniques. In addition, the book not only covers the principles of DNA sequencing techniques but also social and ethical aspects, the concept of personalized medicine and a five-year perspective of DNA sequencing.



Dr. Michal Janitz is a group leader at the Department of Vertebrate Genomics at the Max Planck Institute for Molecular Genetics, a governmental institution focused on genomic and proteomic research. Dr. Janitz scientific interest focuses on systems biology of transcriptional regulatory networks, in particular on the role of promoter regions in modulation of gene expression. Another field of interest relates to technology development for high-throughput functional genomics using transfected-cell arrays and next-generation sequencing. Together with his colleagues he established cell array-based applications for high-throughput subcellular protein localization, RNA interference analysis, protein-protein screens in mammalian cells and functional promoter analysis. Before joining the MPIMG, Dr. Janitz was a post-doc at the German Center for Rheumatism Research in Berlin where he also received a PhD on studies concerning functional analysis of the MHC class II promoter polymorphisms. Dr. Janitz received his medical degree at the Poznan University, Poland. He has over 27 peer-reviewed scientific publications, served as an advisor on development of funding programs in life sciences to the German Federal Ministry for Education and Research and is a member of German National Genome Research Network.

ISBN 978-3-527-32090-5



9 783527 320905

www.wiley-vch.de