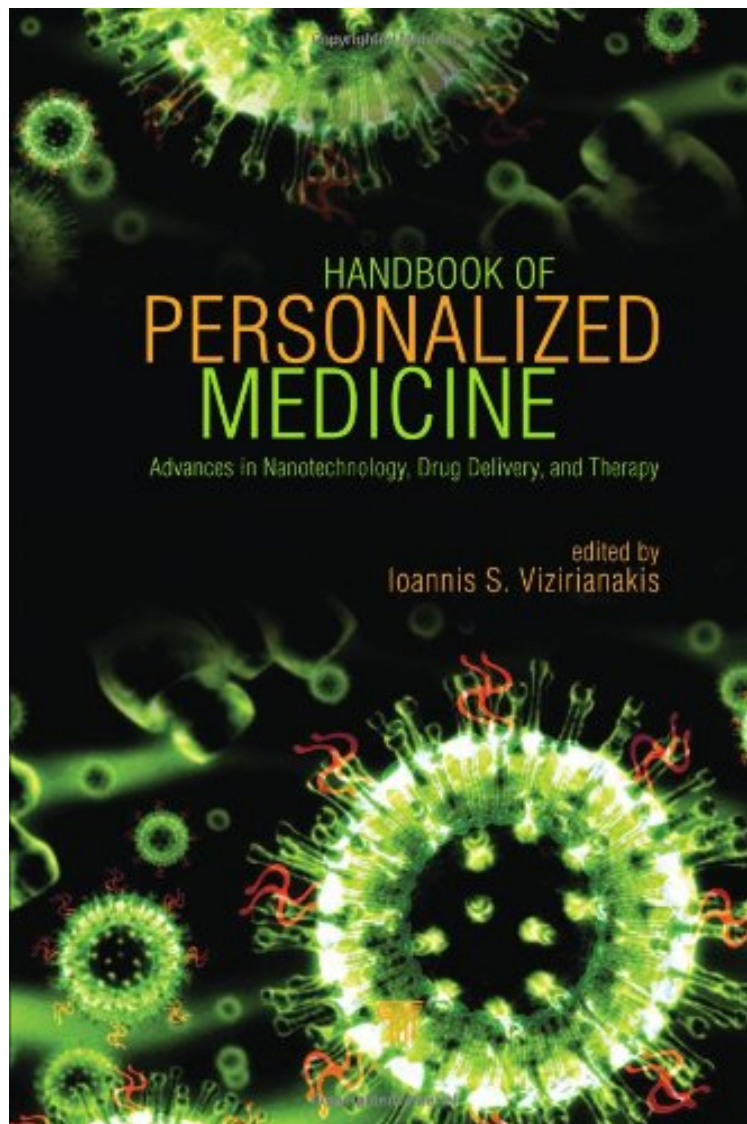


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This book compiles multidisciplinary efforts to conceptualize the environment in research and clinical setting that creates the fertile ground for the practical utility of personalized medicine decisions and also enables clinical pharmacogenomics for establishing pharmacotyping in drug prescription. It covers innovative drug formulations and nanotheranostics, molecular imaging and signatures, translational nanomedicine and informatics, stem cell therapy approaches, modeling and predictability of drug response, pharmacogenetics-guided drug prescription, pediatric drug dosing, pharmacovigilance and regulatory aspects, ethical and cost-effectiveness issues, pharmacogenomics knowledge bases, personal genome sequencing, molecular diagnostics, as well as information-based medicine.

The development of the Handbook of Personalized Medicine is timely. Medicine and health have evidently moved on and continue to progress and develop at a pace. Gone are the days, perhaps, when medical treatments for patients were developed and designed as a one size fits all solution. Much more is now understood about individual differences in the way in which diseases develop and specifically also about individual differences in response to treatments. ... This book represents an exceedingly comprehensive and detailed account of these developments, with the aim of integrating certain of these approaches into every day clinical practice. ... its structure is clearly laid out, contributing authors clearly stated and the periodic use of comprehensive tables, graphs, and colour figures undoubtedly improve its understanding. ... This book has been a massive undertaking to produce and portrays a journey from the most basic considerations through to the medical practice of the future."David Fishwick, Occupational Medicine Journal