

NEW REVIEW -- HAYS / Advancing Healthcare Through Personalized Medicine, 2nd Edition. Springer, 2021, \$219.99.

[AUTHOR]

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[BIBLIOGRAPHIC DATA]

ISBN: 978-3030800994, 745 pages, soft cover.

[DOODY'S NOTES]

[REVIEWER'S EXPERT OPINION]

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****Description****

This book, now in its second edition, presents the advancements of personalized medicine since the first edition was published in 2017.

****Purpose****

The scope of personalized medicine is ever expanding with research in many areas beyond the initial attempts of matching medication to genetics. This edition details how and in what direction personalized medicine has evolved.

****Audience****

This book is for everyone in the scientific community, as well as academics, laypersons, and policymakers. There are many far-reaching aspects of the science focused on individual genetics.

****Features****

The book has 14 chapters that cover biomedical innovation and policy in the 21st century; the rise of genomics and personalized medicine; alliances between knowledge infrastructures and the digitalization of precision health; great strides in precision medicine such as personalized oncology, immunotherapies, and molecular diagnostics; biomarkers, diagnosis, treatment, and education from the clinic to the boardroom; new sets of tools for physicians; legislation, reimbursement, and the regulatory landscape; and moral, societal, and ethical issues including claims, consequences, and caveats. Each chapter has many subchapters detailing specific aspects of personalized and precision medicine.

Samples of these chapters include the Human Genome Project; Sequencing and Genomic Medicine; Implications of Precision Medicine for Patient Care and Disease Treatment; Liquid Biopsy; Type II Diabetes; Neurological Disease:

Alzheimer's Disease; FDA Pharmacogenomics Drug Labeling; and Patient Preference, Right "Not to Know." The chapter on personalized oncology is greatly inclusive of many studies in breast and leukemia cancer research. Each subchapter provides a concise, yet comprehensive outline of the topic augmented by many figures and tables with extensive references.

****Assessment****

This second edition is an extraordinary compendium of the state of the art in personalized genomic evidence, bringing together some of the important research that is building the foundation for future standards of medical care.

Weighted Numerical Score: 100 - 5 Stars!