



# The Engines of Hippocrates: From the Dawn of Medicine to Medical and Pharmaceutical Informatics

*Barry Robson, O. K. Baek*

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A unique, integrative look at information-based medicine

The convergence of medical science, biology, pharmacology, biomedical engineering, healthcare, and information technology is revolutionizing medical and scientific practice, and has broader social implications still being understood. *The Engines of Hippocrates* provides a unique, integrative, and holistic look at the new paradigm of information-based medicine, covering a broad range of topics for a wide readership.

The authors take a comprehensive approach, examining the prehistory, history, and future of medicine and medical technology and its relation to information; how history led to such present-day discoveries as the structure of DNA, the human genome, and the discipline of bioinformatics; and what the future results of these discoveries may hold. Their far-ranging views are their own and not necessarily those of the IBM Corporation or other employers.

*The Engines of Hippocrates* helps readers understand:

- Forces shaping the pharmaceutical and biomedical industries today, including personalized medicine, genomics, data mining, and bionanotechnology
- The relationship between pharmaceutical science today and other disciplines such as philosophy of health, history, economics, mathematics, and computer science
- The integrated role alternative and non-Western medicines could play in a new, information-based medicine
- Practical, ethical, organizational, technological, and social problems of information-based medicine, along with a novel data-centric computing model and a self-adaptive software engineering model, and corresponding information technology architectures, including perspectives on sharing remote data efficiently and securely for the common good

An unmatched, cross-disciplinary perspective on the big picture of today and tomorrow's medicine, *The Engines of Hippocrates* provides a reference to interested readers both inside and outside the pharmaceutical and medical communities, as well as a peerless classroom supplement to students in a wide variety of disciplines.



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