

REVIEW

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# The coming era of precision medicine for intensive care

Jean-Louis Vincent

## Abstract

Recent advances in technology and better understanding of mechanisms underlying disease are beginning to enable us to better characterize critically ill patients. Instead of using nonspecific syndromic groupings, such as sepsis or acute respiratory distress syndrome, we can now classify individual patients according to various specific characteristics, such as immune status. This “personalized” medicine approach will enable us to distinguish patients who have similar clinical presentations but different cellular and molecular responses that will influence their need for and responses (both negative and positive) to specific treatments. Treatments will be able to be chosen more accurately for each patient, resulting in more rapid institution of appropriate, effective therapy. We will also increasingly be able to conduct trials in groups of patients specifically selected as being most likely to respond to the intervention in question. This has already begun with, for example, some new interventions being tested only in patients with coagulopathy or immunosuppressive patterns. Ultimately, as we embrace this era of precision medicine, we may be able to offer precision therapies specifically designed to target the molecular set-up of an individual patient, as has begun to be done in cancer therapeutics.

## Background

Intensive care medicine is still a relatively young specialty but in its short lifetime has evolved rapidly with huge advances in technology and understanding of disease pathogenesis and processes. However, progress in therapeutics has been much less obvious. The fact that for decades we have enrolled heterogeneous, poorly characterized patient groups into our clinical trials goes a long way to explaining why we still have no new therapies, notably for sepsis: the sepsis response is so complex and personal that no single agent will be effective in all patients with sepsis. Now, as a result of advances in technology, greater comprehension of disease pathogenesis and pathophysiology, new understanding of biochemical and hematological data, novel genomic, proteomic, and metabolomic techniques, and improved data mining and computational modeling, we have begun to be able to characterize critically ill patients more precisely, moving beyond the global non-specific syndromic groupings of the past (e.g., “systemic inflammatory response syndrome (SIRS)”, “sepsis”,

“acute respiratory distress syndrome (ARDS)”) to more detailed classification and characterization at an individual patient level. This approach will enable us to determine on a more personal level which treatments will be best adapted to each patient, thus maximizing his/her chances of survival.

## From “poorly characterized” to “personalized” medicine

Although patients are individuals, traditionally we have tended to “label” them according to their disease or condition and often treated them accordingly, using similar interventions and therapies for all patients with the same “diagnosis”. Indeed, this has been one of the key problems with randomized controlled trials in critically ill patients—particularly those with sepsis—in which interventions have been tested in poorly characterized groups of patients believed to be similar because they meet a specific definition or have a specific diagnosis, but in fact varying markedly at an individual level with different infecting organisms, durations of disease, degrees of immune response, comorbidities, and so forth [1–3]. The results of such trials have not surprisingly been mostly negative. However, for many of these studies that showed no overall efficacy on outcome, later analyses suggested that the intervention may have been effective

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# Next The Coming Era In Medicine

**Karin Nielsen-Saines**



## **Next The Coming Era In Medicine:**

**Next** Holcomb B. Noble, 1987-01-01      **News** , 1994      **Handbook of Biomarkers and Precision Medicine** Claudio Carini, Mark Fidock, Alain van Gool, 2019-04-16 The field of Biomarkers and Precision Medicine in drug development is rapidly evolving and this book presents a snapshot of exciting new approaches By presenting a wide range of biomarker applications discussed by knowledgeable and experienced scientists readers will develop an appreciation of the scope and breadth of biomarker knowledge and find examples that will help them in their own work Maria Freire Foundation for the National Institutes of Health Handbook of Biomarkers and Precision Medicine provides comprehensive insights into biomarker discovery and development which has driven the new era of Precision Medicine A wide variety of renowned experts from government academia teaching hospitals biotechnology and pharmaceutical companies share best practices examples and exciting new developments The handbook aims to provide in depth knowledge to research scientists students and decision makers engaged in Biomarker and Precision Medicine centric drug development Features Detailed insights into biomarker discovery validation and diagnostic development with implementation strategies Lessons learned from successful Precision Medicine case studies A variety of exciting and emerging biomarker technologies The next frontiers and future challenges of biomarkers in Precision Medicine Claudio Carini Mark Fidock and Alain van Gool are internationally recognized as scientific leaders in Biomarkers and Precision Medicine They have worked for decades in academia and pharmaceutical industry in EU USA and Asia Currently Dr Carini is Honorary Faculty at Kings College School of Medicine London UK Dr Fidock is Vice President of Precision Medicine Laboratories at AstraZeneca Cambridge UK Prof dr van Gool is Head Translational Metabolic Laboratory at Radboud university medical school Nijmegen NL      **Claiming the Heavens** Philip M. Boffey, 1988 Looks at the program's checkered history and examines the massive technical problems the program presents as well as the theoretical strategies to overcome them      **Selected New Books** New Jersey State Library, 1985      **The Next Boom** Jack W. Plunkett, 2011 Plunkett demonstrates that we are on the verge of a period of major economic growth and presents a panorama of carefully documented developments in areas including energy health care education demographics global trade evolving consumer habits technologies and the rapidly growing global middle class Source inconneue      **New Scientist** , 1989-03      **The Ohio Journal of Science** , 1988 Includes book reviews and abstracts      **Future Survey** , 1988      **The Publishers Weekly** , 1987      **Molecular Diagnostics in Cancer Patients** Kamla Kant Shukla, Praveen Sharma, Sanjeev Misra, 2019-03-15 This book aims to bring together a broad variety of examples of the role of pharmacogenomics in current drug development uncovering dynamic concentration dependent drug responses on biological systems to understand pharmacodynamics responses in human cancer where genetic lesions serve as tumor markers and provide a basis for cancer diagnosis The book describes methods and protocols applied in molecular diagnostics It offers pathologists and researchers providing molecular diagnostic services an array of the most recent and readily accessible reference to compare methods and

techniques Highlights include the molecular diagnosis of genetic aberrations by quantitative polymerase reaction qPCR sequence specific oligonucleotide arrays next generation sequencing NGS CGH arrays and methodologies directed at the detection of epigenetic events high throughput nucleic acid and protein arrays direct sequencing and FISH based methodologies currently used in the diagnosis of solid tumors The book also includes an innovative line of treatment in relation to the molecular prognosis diagnosis and pharmacogenomics in the actual practice of clinical findings at molecular levels The book covers the applications of numerous genetic testing methodologies in approximately the chronological order of discovery and high throughput diagnosis using advanced genomic approaches to identify such genes in the search for novel drug targets and or key determinants of drug reactions It also promotes a wider understanding of molecular diagnostics among physicians medical students and scientists in academics industry and corporate world     General Science Index ,1989     Library Journal ,1987 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately     **Book Review Index Cumulation, 1989** Neil E. Walker,Beverly Baer,1990-04 The Index provides a broad coverage and access to book reviews in the general social sciences humanities sciences and fine arts as well as general interest magazines and includes journals from Great Britain Canada Switzerland Israel and Australia In addition it indexes several journals that while published in the US concentrate on reviewing foreign published or foreign language books These include Hispania French Review German Quarterly and World Literature Today     *Refining Processes for the Co-Development of Genome-Based Therapeutics and Companion Diagnostic Tests* Institute of Medicine,Board on Health Sciences Policy,Roundtable on Translating Genomic-Based Research for Health,2014-03-06 Many drug developers have examined new strategies for creating efficiencies in their development processes including the adoption of genomics based approaches Genomic data can identify new drug targets for both common and rare diseases can predict which patients are likely to respond to a specific treatment and has the potential to significantly reduce the cost of clinical trials by reducing the number of patients that must be enrolled in order to demonstrate safety and efficacy A key component of the approval of targeted therapeutics is the ability to identify the population of patients who will benefit from treatment and this has largely hinged on the co development and co submission to the FDA of a companion diagnostic test The co development process or the development of the test and drug for the simultaneous submission to FDA has led to a major alteration in the way that drugs are being developed with traditionally separate entities pharmaceutical and diagnostic companies now working in close collaboration Refining Processes for the Co Development of Genome Based Therapeutics and Companion Diagnostic Tests is the summary of a workshop held by the Roundtable on Translating Genomic Based Research for Health on February 27 2013 to examine and discuss challenges and potential solutions for the codevelopment of targeted therapeutics and companion molecular tests for the prediction of drug response Prior to the workshop key stakeholders including laboratory and medical professional

societies were individually asked to provide possible solutions to resolve the concerns raised about co development of companion diagnostic tests and therapies Workshop speakers were charged with addressing these solutions in their presentations by providing insight on 1 whether the proposed solutions address the problems described 2 whether there are other solutions to propose and 3 what steps could be taken to effectively implement the proposed solutions

**Molecular Biology of Neurodegenerative Diseases: Visions for the Future - Part B**, 2021-01-14 Molecular Biology of Neurodegenerative Diseases Visions for the Future Part B Volume 177 in the Progress in Molecular Biology and Translational Science series provides the most topical informative and exciting monographs available on a wide variety of research topics The series includes in depth knowledge on the molecular biological aspects of organismal physiology with this release including chapters on Alzheimer s disease Prion like propagation of alpha synuclein What if anything can we learn about neurodegenerative diseases from yeast Mitochondrial rejuvenation and replacement as a novel strategy for treatment of age related neurodegenerative diseases and more Includes comprehensive coverage of molecular biology Presents ample use of tables diagrams schemata and color figures to enhance the reader s ability to rapidly grasp the information provided Contains contributions from renowned experts in the field

*Medical Nanotechnology and Nanomedicine* Harry F. Tibbals, 2017-12-19 Considering the fluid nature of nano breakthroughs and the delicate balance between benefits and consequences as they apply to medicine readers at all levels require a practical understandable base of information about these developments to take greatest advantage of them Medical Nanotechnology and Nanomedicine meets that need by introducing non experts to nanomedicine and its evolving organizational infrastructure This practical reference investigates the impact of nanotechnology on applications in medicine and biomedical sciences and the broader societal and economic effects Eschewing technological details it focuses on enhancing awareness of the business regulatory and administrative aspects of medical applications It gives readers a critical balanced and realistic evaluation of existing nanomedicine developments and future prospects an ideal foundation upon which to plan and make decisions Covers the use of nanotechnology in medical applications including imaging diagnosis and monitoring drug delivery systems surgery tissue regeneration and prosthetics Part of the Perspectives in Nanotechnology series which contains broader coverage of the societal implications of nanotechnology this book can be used as a standalone reference Organized by historical perspective current status and future prospects this powerful book Explores background definitions and terms and recent trends and forces in nanomedicine Surveys the landscape of nanomedicine in government academia and the private sector Reviews projected future directions capabilities sustainability and equity of nanomedicine and choices to be made regarding its use Includes graphical illustrations references and keywords to reinforce concepts and aid further research In its assessment of alternative and sometimes conflicting concepts proposed for the application of nanotechnology to medicine this book surveys major initiatives and the work of leading labs and innovators It uses informative examples and case summaries to illustrate

proven accomplishments and imagined possibilities in research and development

**Chemical Diagnostics** Nelson L.S. Tang, Terence Poon, 2013-12-06 Next Generation Sequencing Chemistry Technology and Applications by P Hui Application of Next Generation Sequencing to Molecular Diagnosis of Inherited Diseases by W Zhang H Cui L J C Wong Clinical Applications of the Latest Molecular Diagnostics in Noninvasive Prenatal Diagnosis by K C A Chan The Role of Protein Structural Analysis in the Next Generation Sequencing Era by W W Yue D S Froese P E Brennan Emerging Applications of Single Cell Diagnostics by M Shirai T Taniguchi H Kambara Mass Spectrometry in High Throughput Clinical Biomarker Assays Multiple Reaction Monitoring by C E Parker D Domanski A J Percy A G Chambers A G Camenzind D S Smith C H Borchers Advances in MALDI Mass Spectrometry in Clinical Diagnostic Applications by E W Y Ng M Y M Wong T C W Poon Application of Mass Spectrometry in Newborn Screening About Both Small Molecular Diseases and Lysosomal Storage Diseases by W L Hwu Y H Chien N C Lee S F Wang S C Chiang L W Hsu

**Health Care in America** John C. Burnham, 2015-05-15 A comprehensive history of sickness health and medicine in America from Colonial times to the present In Health Care in America historian John C Burnham describes changes over four centuries of medicine and public health in America Beginning with seventeenth century concerns over personal and neighborhood illnesses Burnham concludes with the arrival of a new epoch in American medicine and health care at the turn of the twenty first century From the 1600s through the 1990s Americans turned to a variety of healers practices and institutions in their efforts to prevent and survive epidemics of smallpox yellow fever cholera influenza polio and AIDS Health care workers in all periods attended births and deaths and cared for people who had injuries disabilities and chronic diseases Drawing on primary sources classic scholarship and a vast body of recent literature in the history of medicine and public health Burnham finds that traditional healing care and medicine dominated the United States until the late nineteenth century when antiseptic aseptic surgery and germ theory initiated an intellectual social and technical transformation He divides the age of modern medicine into several eras physiological medicine 1910s 1930s antibiotics 1930s 1950s technology 1950s 1960s environmental medicine 1970s 1980s and beginning around 1990 genetic medicine The cumulating developments in each era led to today s radically altered doctor patient relationship and the insistent questions that swirl around the financial cost of health care Burnham s sweeping narrative makes sense of medical practice medical research and human frailties and foibles opening the door to a new understanding of our current concerns

Advances in Genetics Dhavendra Kumar, 2021-11-27 Advances in Genetics Volume 108 provides the latest information on genetics presenting new medical breakthroughs that are occurring as a result of advances in our knowledge of the topic The book continually publishes important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines with this new release including chapters on Clinical applications of cancer genetics and genomics Epigenetic mutations in childhood tumors the paradigm of Wilms tumor Preventive population genomics the model of BRCA related cancers Recent advances of PARP inhibitors in medical oncology Role of single cell and

liquid biopsy in cancer research and clinical applications Other chapters cover Recent advances and clinical utility of prostate cancer genomics Recent advances in lung cancer genomics applications in targeted therapy and more Critically analyzes future directions for the study of clinical genetics Written and edited by recognized leaders in the field Presents new medical breakthroughs that are occurring as a result of advances in our knowledge of genetics

## **Next The Coming Era In Medicine** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Next The Coming Era In Medicine**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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