

## BIOBUSINESS BRIEFS

MARKET WATCH

# A framework for biomedical innovation in emerging markets

Recent studies have investigated public and venture-capital funding for life sciences in emerging markets to understand government policy and investment strategy (*Nature Biotech.*, 31, 195–201; 2013; *N. Engl. J. Med.*, 370, 3–6; 2014). This article describes a framework to help understand the relative strengths and weaknesses of biomedical innovation in these diverse emerging markets and their potential evolution.

To develop the framework, we analysed data on two key aspects of the environment for biomedical research and development (R&D): see Supplementary information S1 (box) for details of the data and analysis. The first aspect is the availability of public funding for biomedical R&D: we divided countries into two groups — capital-abundant or capital-deficient — based on whether the annual funding available for biomedical R&D was above or below the median value (US\$0.4 billion) in the 11 countries studied. The second aspect is a composite score that is based on five indicators of the strength of a country's R&D ecosystem: the number of patents, the number of high-impact publications,

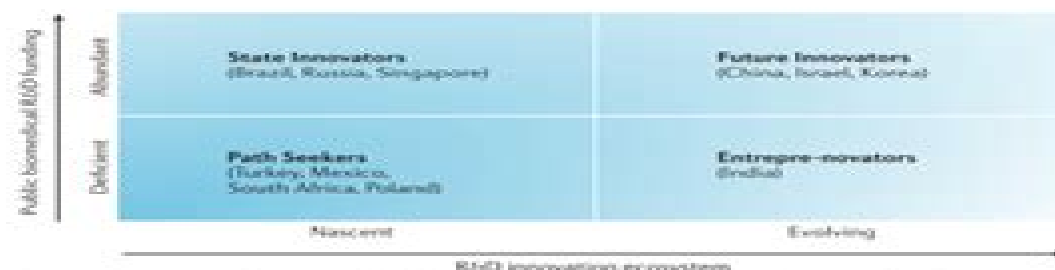
the number of leading universities in global rankings, the number of clinical studies and the talent pool. Countries were divided into 'nascent ecosystems' if their innovation score was lower than the median score, and 'evolving ecosystems' if the score was above the median. Our data and analysis do not aim to precisely measure each of the aspects; rather, the attempt is to gain robust indicators as a basis for clustering countries into the four groups of the resultant 2 × 2 matrix shown in FIG. 1.

Countries in the 'Future Innovators' group (capital-abundant with an evolving R&D ecosystem) have built a strong momentum for innovation through high-impact publications from leading universities; increases in start-up activity; well-developed infrastructure; and a diverse talent pool comprising locally trained scientists as well as expats and returnees, coupled with robust public and private funding. In these countries, we propose that large pharmaceutical companies should be (and indeed they already are) actively involved in a spectrum of R&D activities: in-house research, academic

collaborations, in-licensing partnerships and strategic outsourcing (see Supplementary information S1 (box) for further details).

Countries in the 'State Innovators' group (capital-abundant with a nascent R&D ecosystem), which are looking to diversify from their natural-resource-focused economies into high-tech areas, are funding infrastructure development, talent recruitment and access to technology. The optimal R&D model in these countries is also different; it is driven by asset sharing and technology transfer — a win-win model that provides funding for de-prioritized or risky programmes from large pharmaceutical companies to progress through the clinic, and that facilitates the countries in building expertise and fostering local ecosystems (see Supplementary information S1 (box) for further discussion). We envision that appetite for risk and the availability of capital are likely to drive more creative R&D-financing models in these markets. Countries such as China started as State Innovators, but successfully transformed into Future Innovators by bringing together various elements of an 'innovation cluster'. Singapore is an excellent example of how state resources, incentives and policies can create a globally recognized ecosystem that is poised to deliver life sciences innovation. We see early signs that Russia and Brazil may follow a similar path.

Countries in the 'Entrepre-novators' group (capital-deficient with an evolving ecosystem) have a lack of concerted government policy or incentives for pharmaceutical innovation, exacerbated by constrained funding for academic institutions and limited early-stage venture financing. However, there are still vibrant clusters, such as Bangalore, India, which is primarily due to the entrepreneurial culture and talent pool, coupled with local generics players moving up the R&D value chain. Such countries are strategic and cost-effective outsourcing options; for example, as with chemistry and information-technology outsourcing to India. Israel was an Entrepre-novator that successfully became



**Figure 1 | Innovation framework for pharmaceutical R&D in emerging markets.** Data on public funding for biomedical research and development (R&D), as well as a composite score based on five indicators of the strength of a country's R&D ecosystem, were used to assign the 11 countries shown into one of the four cells shown in the 2 × 2 matrix, based on whether the values for that country were above or below the median value for the group of countries overall. For details of the analysis, see Supplementary information S1 (box).

# Emerging Policies For Biomedical Research

**United States. President's Biomedical  
Research Panel**



## **Emerging Policies For Biomedical Research:**

**Emerging Policies for Biomedical Research** William N. Kelley, Marian Osterweis, Elaine R. Rubin, 1993-01-01 The book abstracts excerpts significant articles about science issues that influence the development of national policy Commentaries by CEOs of academic health centers explore a myriad of topics including societal goals priority setting allocation of the funds for biomedical research biotech global competition integrity in scientific research public perceptions ethical challenges in the use of genetic information The book provides a unique reference for policy makers analysts those interested in health care policy

**Policies for Biomedical Research** United States. Congress. House. Committee on Science and Technology. Task Force on Science Policy, 1987

**Emerging Conceptual, Ethical and Policy Issues in Bionanotechnology** Fabrice Jotterand, 2008-09-20 Nanobiotechnology is the convergence of existing and new biotechnology with the 1 ability to manipulate matter at or near the molecular level This ability to manipulate matter on a scale of 100 nanometers nm or less is what constitutes the nanotechnology revolution occurring today the potentially vast economic and social implications of which are yet to be fully understood Royal Society 2004 The most immediate way to understand the implications of nanobiotechnology for ethics is to consider the real life concerns of communities that are mobilizing within civil society The conflicts and ethical debates surrounding nanotechnology will almost by definition emerge on the fault lines between different civil society actors researchers and financial interests associated with nanobiotechnology as well as potentially government regulators These fault lines are all reflected within the concerns as expressed d cursively of the communities mobilizing This chapter will explore converging d courses regarding converging technologies Converging Technologies CT are already a familiar theme in the next gene tion of biotechnology nanotechnology pharmacogenomics and proteomics research 2 and development Nanobiotechnology means that previously separate disciplines IT physics chemistry and biology are merging and converging to create new applications and even new life forms through converged technological platforms Schummer 2004 and Glimell and Fogelberg 2003 p 43 note the predominance of interdisciplinarity as a core theme of nano discourse

*OECD Health Policy Studies Addressing Dementia The OECD Response* OECD, 2015-03-13 This book examines the large and growing human and financial cost of dementia and discusses policy options for improving care controlling costs and facilitating research

**An Examination of Emerging Bioethical Issues in Biomedical Research** National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Sciences Policy, 2020-08-10 On February 26 2020 the Board on Health Sciences Policy of the National Academies of Sciences Engineering and Medicine hosted a 1 day public workshop in Washington DC to examine current and emerging bioethical issues that might arise in the context of biomedical research and to consider research topics in bioethics that could benefit from further attention The scope of bioethical issues in research is broad but this workshop focused on issues related to the development and use of digital technologies artificial intelligence and machine learning in research and clinical practice

issues emerging as nontraditional approaches to health research become more widespread the role of bioethics in addressing racial and structural inequalities in health and enhancing the capacity and diversity of the bioethics workforce This publication summarizes the presentations and discussions from the workshop *The New Economics of Technology Policy* Dominique Foray,2009 This innovative book comprehensively sheds light on the theory and practice of technological policies by employing modern analytical tools and economic techniques The New Economics of Technology Policy focuses on all public interventions intended to influence the intensity composition and direction of technological innovations within a given entity such as a region country or group of countries Dominique Foray has gathered together many of the leading scholars in the field to comprehensively explore numerous avenues and pathways of research Bringing together a collection of policy oriented papers this book will strongly appeal to policy makers academic researchers and graduate students with an interest in economics public policy science technology and society **Emerging Policy Issues in Synthetic Biology**

OECD,2014-06-04 This book examines policy issues in synthetic biology including R D funding company investment PPP arrangements and innovative financing infrastructure requirements education and training intellectual property IP regulation and public engagement *Research Handbook on EU Health Law and Policy* Tamara K. Hervey,Calum Alasdair

Young,Louise E. Bishop,2017-03-31 The steady expansion of the European Union s involvement in health over the past 20 years has been accelerated by recent events This handbook offers an up to date analytical overview of the most important topics in EU health law and policy It outlines as far as possible the direction of travel for each topic and suggests research agenda s for the future **Empowering Technology** Lewis M. Branscomb,1993 experts from Harvard s Center for Science

and International Affairs here examine a set of key issues and problems that taken together define the scope and limits of a technology policy **The Metropolitan Academic Medical Center** David E. Rogers,Eli Ginzberg,2019-07-11 The Metropolitan Academic Medical Center provides a careful reexamination of developments of the past decade offers insights for improving medical education biomedical research and health care services and examines the fate of the medical academy

*Report of the President's Biomedical Research Panel: Appendix B: Approaches to policy development for biomedical research* United States. President's Biomedical Research Panel,1976 **Congressional Record** United States.

Congress,1982 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **Departments of Labor, Health and Human**

**Services, Education, and Related Agencies Appropriations for 1991: Department of Health and Human Services pt. 3. Health (except National Institutes of Health)** United States. Congress. House. Committee on Appropriations.

Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies,1990

**Science and Technology Policy in the United States** Sylvia Kraemer, 2006-06-20 During the latter half of the twentieth century federal funding in the United States for scientific research and development increased dramatically Yet despite the infusion of public funds into research centers the relationship between public policy and research and development remains poorly understood How does the federal government attempt to harness scientific knowledge and resources for the nation s economic welfare and competitiveness in the global marketplace Who makes decisions about controversial scientific experiments such as genetic engineering and space exploration Who is held accountable when things go wrong In this lucidly written introduction to the topic Sylvia Kraemer draws upon her extensive experience in government to develop a useful and powerful framework for thinking about the American approach to shaping and managing scientific innovation Kraemer suggests that the history of science technology and politics is best understood as a negotiation of ongoing tensions between open and closed systems Open systems depend on universal access to information that is complete verifiable and appropriately used Closed systems in contrast are composed of unique and often proprietary features which are designed to control usage From the Constitution s patent clause to current debates over intellectual property stem cells and internet regulation Kraemer shows the promise as well as the limits of open systems in advancing scientific progress as well as the nation s economic vitality

**Using Nursing Research to Shape Health Policy** Patricia A. Grady, Ada Sue Hinshaw, 2017-03-15 Examining the crucial interrelationship between nursing research and health policy this book presents examples of specific health care policy that has been influenced implemented or changed as a result of nursing research It builds on the discussion of this relationship as described in the editors earlier book *Shaping Health Policy through Nursing Research* named a Doody s Core Title in 2013 and an AJN Book of the Year in 2011 This current edition updates earlier information with new nursing research by esteemed scholars It encompasses research related to major policy statements of the decade including the IOM Future of Nursing report the Affordable Care Act and the Blueprint for Genomics in Nursing and highlights how they have influenced and will continue to influence health policy Written for multiple audiences including undergraduate and graduate students faculty and nursing professionals the book presents information on how science shapes health policy in general models and strategies for linking research and health policy and multiple examples of how major nursing research has influenced health policy The text provides both a conceptual orientation and an operational approach to strategies linking research to policy and influencing policy makers at the organizational community state national and international levels Key Features Offers examples of cutting edge nursing research that provides a foundation for practice and policy Incorporates major policy directives of this decade and highlights how nursing research has influenced health policy Demonstrates to undergraduate and graduate students faculty and nursing professionals how nursing research can shape health policy decisions Includes perspectives models and strategies for using nursing research to influence health policy Addresses how nursing research shapes policy at organizational community state national and international levels

Science at the White House Edward J. Burger Jr.,2019-12-01 Originally published in 1980 In 1973 the US president's Office of Science and Technology was eliminated a victim of its own incongruity It was not as was popularly proclaimed at the time simply because the Nixon administration was particularly hostile to the scientific and academic communities It was eliminated argues physician scientist Edward J Burger Jr because the office had tried to do its job too well and had become a political liability Science at the White House takes a critical look at the role of science advisers to the president and recounts the many conflicts that occurred as science and politics converged Burger draws on his own six years of experience in the White House Office of Science and Technology in the 1970s His book is filled with firsthand descriptions of the government's handling of such issues as national health care environmental regulation population control and biomedical research

**Morality Policies in Europe** Christoph Knill,2017-07-05 The regulation of issues like abortion euthanasia gun control same sex unions pornography prostitution drugs or gambling is commonly referred to a special class of so called morality policies The distinctive feature of these policies is that politics are shaped by conflicts over first principle When does life end When does it begin Is gambling drug consumption or prostitution inherently malignant The regulation of these value conflicts entails decisions about right or wrong and hence the validation of a particular set of basic values Yet there is still a remarkable lack of scholarly attention on morality policies in particular with regard to general implications for the study of public policy To stimulate further research in this area this book focuses on different concepts and theories of morality policy change in European countries It is based on a broad and comparative empirical perspective on different morality issues including for instance the regulation of prostitution abortion euthanasia gambling drugs as well as gun controls This book was published as a special issue of the Journal of European Public Policy *Annual Review of Comparative and International Education 2022* Alexander W. Wiseman,2023-12-14 Reflecting on ten prolific years of publication both volumes of the 2022 Annual Review together present discussions on education trends and directions conceptual and methodological developments research to practice area studies and regional developments and diversification of the field of education **Small Business**

**Innovation** United States. Congress. House,1981 Science, Technology and Society Wenceslao J. González,2005 The emphasis on the realm of Science Technology and Society or Science and Technology Studies may have the same degree of relevance that the historical turn had in the past It is a social turn which affects philosophy of science as well as philosophy of technology It includes a new vision of the aims processes and results of scientific activities and technological doings because the focus of attention is on several aspects of science and technology which used to be considered as secondary or even irrelevant This turn highlights science and technology as social undertakings rather than intellectual contents According to this new vision there are several important changes as to what should be studied the objects of research how it should be studied the method and what the consequences for those studies are The new focus of attention can be seen in many changes and among them are several of special interest a from what science and technology are in themselves mainly

epistemic contents to how science and technology are made largely social constructions b from the language and structure of basic science to the characteristics of applied science and the applications of science c from technology as a feature through which human beings control their natural surroundings a step beyond technics due to the contribution of science to technology as a social practice and an instrument of power and d from the role of internal values necessary for mature science and innovative technology to the role of contextual or external values cultural political economic of science and technology

Wenceslao J Gonzalez is professor of logic and philosophy of science at the University of A Coruña Spain He has been vicedean of the School of Humanities and president of the Committee of Doctoral Programs at the University He has been a visiting researcher at the Universities of St Andrews Münster and London London School of Economics as well as Visiting fellow at the Center for Philosophy of Science University of Pittsburgh He has given lectures at the Universities of Pittsburgh Stanford Quebec and Helsinki The conferences in which he has participated include those organized by the Universities of Uppsala New South Wales Bologna and Canterbury New Zealand He has edited 20 volumes and published 70 papers He is the editor of the monographic issues on Philosophy and Methodology of Economics 1998 and Lakatos's Philosophy Today 2001 His writings include Economic Prediction and Human Activity An Analysis of Prediction in Economics from Action Theory 1994 On the Theoretical Basis of Prediction in Economics 1996 Rationality in Economics and Scientific Predictions A Critical Reconstruction of Bounded Rationality and its Role in Economic Predictions 1997 Lakatos's Approach on Prediction and Novel Facts 2001 Rationality in Experimental Economics An Analysis of R. Selten's Approach 2003 From Erklären/Verstehen to Prediction/Understanding The Methodological Framework in Economics 2003 and The Many Faces of Popper's Methodological Approach to Prediction 2004

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