

Economics of Science, Technology and Innovation

# THE ECONOMIC AND SOCIAL DYNAMICS OF BIOTECHNOLOGY

edited by John de la Mothe and Jorge Niosi

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# Economic And Social Dynamics Of Biotechnology

**David Tyfield**



## **Economic And Social Dynamics Of Biotechnology:**

The Economic and Social Dynamics of Biotechnology John de la Mothe, Jorge Niosi, 2012-12-06 Biotechnology the integrated use of biochemistry microbiology and chemical engineering for the technological application of the capabilities of microbes and cultured tissue cells is quickly becoming pervasive and challenging rapidly developing both new techniques and industries The Economic and Social Dynamics of Biotechnology a joint project between Statistics Canada the Program of Research on Innovation Management and Economy PRIME at the University of Ottawa and CIRANO at the University of Quebec in Montreal brings together economic social and statistical views on the dynamics of this set of emerging technologies It examines the costs as well as the benefits the challenges as well as the choices of the rapidly expanding science based world of biodiversity biopharmaceuticals and bioinformatics and it provides suggestions for future work and research This project fits into an ongoing research program at Statistics Canada to develop meaningful indicators for science technology and innovation in a technology intensive economy This book tells the story of the inner workings of innovation systems technological systems and competence blocs in the production use and diffusion of knowledge *The Economic Dynamics of Modern Biotechnology* Maureen D. McKelvey, Annika Rickne, Jens Laage-Hellman, 2004-01-01 All would agree that with more than 3 000 new firms formed in Europe Japan and the United States focused on biotechnology and with elegant strides forward in our understanding of genetics the genome proteomics and other related fields a true intellectual social and industrial revolution is in the making Maureen McKelvey et al provide fascinating data on firm formation case studies of emerging business models and cross regional and national comparisons The work is a useful beginning in our understanding of an emerging phenomenon James M Utterback Massachusetts Institute of Technology US This book offers a novel insight into the economic dynamics of modern biotechnology using examples from Europe to reflect global trends The authors apply theoretical insight to a fundamental enigma of the modern learning society namely how and why the development of knowledge and ideas interact with market processes and the formation of industries and firms **The Economics of Science: A Critical Realist Overview** David Tyfield, 2013-06-17 Dramatic and controversial changes in the funding of science over the past two decades towards its increasing commercialization have stimulated a huge literature trying to set out an economics of science Whether broadly in favour or against these changes the vast majority of these frameworks employ ahistorical analyses that cannot conceptualise let alone address the questions of why have these changes occurred and why now Nor therefore can they offer much insight into the crucial question of future trends Given the growing importance of science and innovation in an age of both a globalizing knowledge based economy itself in crisis and enormous challenges that demand scientific and technological responses these are significant gaps in our understanding of important contemporary social processes This book argues that the fundamental underlying problem in all cases is the ontological shallowness of these theories which can only be remedied by attention to ontological presuppositions Conversely a critical

realist approach affords the integration of a realist political economy into the analysis of the economics of science that does afford explicit attention to these crucial questions a cultural political economy of research and innovation CPERI Accordingly the book sets out an introduction to the existing literature on the economics of science together with novel discussion of the field from a critical realist perspective In arguing thus across levels of abstraction however the book also explores how concerted engagement with substantive social enquiry and theoretical debate develops and strengthens critical realism as a philosophical project rather than simply applying it Divided into two volumes in this first volume the book explores the top and tail of the argument regarding substantive and philosophical aspects Starting with substantive illustrations we explore the social challenges associated with the contemporary commercialization of science and the movement towards a knowledge based bio economy Having shown the explanatory benefits of assuming a realist political economy perspective the book then turns to the task of reconstructing and justifying that theoretical perspective True to the overall argument regarding attention to ontological presuppositions this starts with critical realism s critique of mainstream economics but also develops critical realism itself towards what may be called a transcendental constructivism BIOTECHNOLOGY - Volume XIII Horst W. Doelle,J. Stefan Rokem,Marin Berovic,2009-11-16 This Encyclopedia of Biotechnology is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Biotechnology draws on the pure biological sciences genetics animal cell culture molecular biology microbiology biochemistry embryology cell biology and in many instances is also dependent on knowledge and methods from outside the sphere of biology chemical engineering bioprocess engineering information technology biorobotics This 15 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the field and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs **The Dynamics of California's Biotechnology Industry** Junfu Zhang,Nikesh Patel,2005 *Small Firms and Innovation Policy in Japan* Cornelia Storz,2012-11-15 This new book discusses the extent to which the Japanese economy encourages entrepreneurship and innovation Although Japan has a strong reputation as an innovator some people argue that this reputation is misplaced Contrary to earlier expectations the USA rather than Japan emerged as the leader in the biotech industries in the 1990s and also many small firms in Japan supply only a few or just one other company thereby limiting their view of the marketplace and the commercial opportunities within it Despite the increase of international patents international scientific citations and a positive technology trade balance the Japanese innovation system is weak in giving birth to radical innovations The book explores fully these issues making comparisons with other countries where appropriate It concludes that the Japanese innovation system has both advantages and disadvantages and contributes to a better understanding of how policy changes take place Nico Stehr: Pioneer in the Theory of Society and Knowledge Marian T.

Adolf,2018-05-14 This unique volume brings together a selection of the most important texts of Nico Stehr for the first time and puts them in dialogue with original research that draws on his prolific work Covering five decades of pioneering sociological research on the theory of society and knowledge the book introduces the reader to Stehr s seminal inquiries into the economic political and social role of knowledge Original concepts such as his groundbreaking studies on the Knowledge Society are introduced as the volume traces Stehr s pursuit of social scientific research as a source of practical knowledge for modern society The book comprises three parts devoted to the many facets and the remarkable range of Nico Stehr s oeuvre Part 1 provides an introduction to the significance of his pioneering work and career Part 2 demonstrates the practical application of Nico Stehr s research as seen through the eyes of eminent scholars Part 3 presents a selection of the milestones of his publications

### **Innovation and Commercialisation in the Biopharmaceutical Industry** Bruce

Rasmussen,2010-01-01 The processes of discovery testing and distribution of new medicines have undergone radical change in recent decades from a focus on small molecule drugs to biomedicine and related technologies Bruce Rasmussen very effectively draws upon modern theories of the firm data analysis and case studies to provide important insights into the consequences of this change He offers convincing evidence that contradicts the widely held view that the biopharmaceutical sector has not generated considerable economic value Frank R Lichtenberg Columbia University US Bio and pharmaceutical industry discovery is a distressed asset today Why Bruce Rasmussen s book is a timely and very informative work building on rich data sources and extensive economic research on a subject of concern to us all Is medicine discovery in permanent decline Are the biotechnology and traditional pharma groups on a collision course will the traditional group absorb the new will integration take place will a new discovery model emerge I commend Bruce s book to all who wish to understand what is happening David W Anstice Merck Co Inc This path breaking book addresses the ongoing implications for traditional pharmaceutical companies and biopharmaceutical start ups of the realignment of the industry knowledge base The theoretical approach draws on the modern theory of the firm and related ideas in order to better define the concept of the business model which is employed to guide the case studies and empirical analysis in the book The author shows that while traditional pharmaceutical companies have successfully adjusted their business models to meet the challenges of biotechnology biopharmaceutical start ups have experienced more problems Despite the poor financial performance of the vast majority of these firms the biopharmaceutical sector as a whole has created significant value However this has been captured disproportionately by a handful of large fully integrated biopharmaceutical firms and to a lesser extent by the largest dozen pharmaceutical companies This highly focused book will be a captivating read for innovation and biopharmaceutical industry analysts as well as advisers formulating policies to support the development of the biopharmaceutical sector Academics working on innovation and biotechnology as well as scientists engaged in research in the life sciences will also find this book of particular interest

*Routledge Handbook of Politics and Technology* Ulrich

Hilpert,2015-10-05 This handbook provides a comprehensive global survey of the politics of technology Written by an outstanding line up of distinguished scholars in the field the handbook covers all aspects of the relationship between politics and technology including Demand and support for new technologies and innovation by the state The effects of technology policies Technology development and innovation difference between various countries and regions Policy instruments and techno industrial innovation Dynamism and change as outcomes of government policies Driving forces for science and innovative development Forming the basis of this handbook are examples of regional development country studies and a rich variety of technologies as well as topical issues such as divergent political interests in relation to technology and the economic exploitation of technologies Employing a comparative and interdisciplinary approach in order to analyse the interplay between government activities and the development of new technologies this handbook will be an invaluable resource for all students scholars and practitioners working in the politics of technology public policy and policy analysis

GLOBAL SECURITY AND INTERNATIONAL POLITICAL ECONOMY - Volume VI P.Bilgin, P.D. Williams, M. Sekiguchi, J. K. Galbraith, S. T. Inayatullah, J. Wiener, R. A. Schrire, I.L. Murphy,2010-09-19 Global Security and International Political Economy is a component of Encyclopedia of Social Sciences and Humanities in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 6 volume set contains several chapters each of size 5000 30000 words with perspectives issues of great relevance to our world such as Global Security Global Security and the International System The Regional Dimension of Global Security The National Dimension Of Global Security The Societal Dimension Of Global Security The Human Security Agenda In World Politics History Of Empires And Conflicts The Myth Of The Clash Of Civilizations In Dialogical Historical Context Causes And Prevention Of Armed Conflict International Development Policies And Global Security Environment And Global Security Political Economy Of International Security Political Issues In Human Resource Development Globalization And The Consumer Society These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs **Entrepreneurship and Openness** David B.

Audretsch,Robert Litan,Robert J. Strom,2009-01-01 Entrepreneurship is critical to economic growth but it cannot flourish without open markets Entrepreneurs can only be expected to take risks in open settings where individuals and firms are free to contract with one another In this important book leading economists explain and document the role of open markets within and across national boundaries in facilitating entrepreneurship innovation and economic growth The main message of this book is especially timely given growing concerns in developed countries about off shoring and openness to trade The book includes discussions of star scientists entrepreneurs and their positive impacts on local growth the globalization of venture capital information technology entrepreneurship and cities culture off shoring trade competition and the expansion of world trade This book will be welcomed by policy makers at all levels of government university leaders and academic scholars in

entrepreneurship business and management innovation economics sociology and urban economics      **Innovation, Alliances, and Networks in High-Tech Environments** Fiorenza Belussi, Luigi Orsi, 2015-09-16 Recent years have seen a growth in strategic alliances mergers and acquisitions and collaborative networks involving knowledge intensive and hi tech industries However there have been relatively few studies looking at this form of collaboration as a strategy to drive firms innovative performances This book specifically focuses on the role of strategic alliances M A and innovation networks providing insights on if and how they contribute to boosting firms innovation performances The book has a double purpose Firstly it investigates at an industry level the role played by the alliance M As and networks in high tech environments such as biotechnology pharmaceutical software and nanotechnology in creating transforming and reshaping the dynamics inside and between industries Secondly it explores the impact at the firm level of factors such as cognitive distance management capabilities and relational and social capabilities on firms global innovation capacity measured as innovation quantity innovation quality and innovation novelty The book will be of interest to scholars working on the economics of innovation innovation management studies strategic management regional science and evolutionary economics among other areas

**Networks, Alliances and Partnerships in the Innovation Process** John de la Mothe, Albert N. Link, 2012-12-06 In an era of intense knowledge based globalization and technology based competition the central role of networks alliances and partnerships is now becoming recognized By looking at the dynamics of these strategic organizational activities leading authors in the field examine in this book how firms align themselves how they use networks and enter into partnerships in order to develop new or radically improved processes and how they introduce new or radically improved products to the market The topic excludes as the primary interest spatial effects such as those found in geographic clusters or in regional innovation systems The focus here is instead on the innovation process and therefore examines framework issues about how we can assess networks of innovators measurement issues for both researchers and official statisticians and impact issues for both industry strategists and policy makers Using an evolutionary perspective and drawing on a range of disciplines Networks Partnerships and Alliances explores important issues at the conceptual methodological and comparative levels concerning the construction of comparative advantage      Canada's Regional Innovation System Jorge Niosi, Tomas Gabriel Bas, Majlinda Zhegu, 2005 Regional innovation systems Jorge Niosi shows are evolutionary complex systems in which each group of agents reacts to the behaviour of others as well as to public policy incentives Canada s Regional Innovation System finds that Canada s biotechnology capabilities are widely distributed but solidly planted in Toronto Montreal and Vancouver with smaller centres in Calgary and Edmonton However the specific institutional structures innovative firms research universities and public laboratories of regional systems vary from one industry to another and evolve through time While aerospace and aircraft form two poles in Montreal and Toronto Ottawa is Canada s centre for semiconductor and telecommunication innovation Niosi explores how these regional configurations are shaped by national and provincial public

policy incentives The study is based on patent and company information as well as aggregate figures from Statistics Canada and other sources

*Knowledge Politics* Nico Stehr, 2015-12-03 This book argues that new technologies and society's response to them have created a relatively new phenomenon knowledge politics Nico Stehr describes Western society's response to a host of new technologies developed only since the 1970s including genetic experiments test tube human conception recombinant DNA and embryonic stem cells genetically engineered foods neurogenetics and genetic engineering and reproductive cloning and the reconstruction of the human ancestral genome He looks also at the prospective fusion of nanotechnology biotechnology information technology transgenic human engineering and cognitive science whose products may as its boosters claim some day cure disease slow the aging process eliminate pollution and generally enhance human performance Knowledge Politics shows how human civilization has reached a new era of concern about the life altering potentials of new technologies Concerns about the societal consequences of an unfettered expansion of natural scientific knowledge are being raised more urgently and are moving to the center of disputes in society and thus to the top of the political agenda Stehr explains the ramifications of knowledge politics and the approaches society could take to resolve difficult questions and conflicts over present and future scientific innovation

*Innovation, Path Dependency, and Policy* Jan Fagerberg, David Mowery, Bart Verspagen, 2009-02-12 The concept of National Innovation Systems is well established in academic research and enthusiastically adopted by policymakers Yet there are relatively few in depth studies of how individual national innovation systems have evolved to their present stance This book provides just that The contributions of the book are threefold First it develops an evolutionary and historically oriented approach to the study of the development of these policies that may have wide applicability Second it focuses on a particular type of innovation innovation in resource based activities that differs in many respects from the more commonly studied case of innovation in high tech industries Third the book advances our understanding of the roles played by institutions and politics in innovation The book includes contributions from historians economists and sociologists and offers an unparalleled account of the development of one of the world's most successful economies

*Diversity, Innovation and Clusters* Irène Bernhard, Urban Gråsjö, Charlie Karlsson, 2020-05-29 Increased emphasis on the links between regional diversity and regional knowledge innovation and entrepreneurship highlights the need for a focus on the spatial aspects of these multifaceted dynamic relationships in order to improve our understanding By means of a conceptual approach this timely book illustrates the links between innovation and economic development through the role of space This thought provoking book addresses the questions regarding diversity innovation and clusters that require further investigation and analysis

**Biotech Solutions in Aquaculture and Fisheries** Yashwant Choudhury, 2025-02-20 Immerse yourself in the revolutionary world of Biotech Solutions in Aquaculture and Fisheries This comprehensive guide explores the synergy between aquaculture fisheries and biotechnology offering a transformative perspective on the sustainable future of aquatic ecosystems From foundational concepts to genetic



enhancement and disease management this book provides a holistic view of how biotechnology is reshaping practices in aquaculture and fisheries Discover the science behind formulated feeds nutrient optimization and futuristic nutrigenomics along with sustainable practices water quality management and bioremediation strategies Dive into artificial reproduction techniques hormonal manipulation and cryopreservation and get insights into emerging technologies like IoT robotics automation and biomedical applications in fisheries research Reflect on the socioeconomic impacts ethical considerations and the importance of community engagement in responsible aquaculture This book is an essential resource for anyone interested in the innovative intersections of biotechnology and aquatic science aimed at fostering a sustainable future for our water based resources

**Critique of Entrepreneurship** Peter Armstrong, 2005-05-11 The sponsorship of the entrepreneur as an agent of economic growth is now at the centre of a vast promotional industry involving politicians government departments and higher education This book examines the origins of this phenomenon and subjects its mythologies hero figures and policies to an empirically based critical examination

**OECD Science, Technology and Industry Outlook 2014** OECD, 2014-11-12 The OECD Science Technology and Industry Outlook 2014 reviews key trends in science technology and innovation STI policies and performance in more than 45 economies including OECD countries and major emerging economies

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