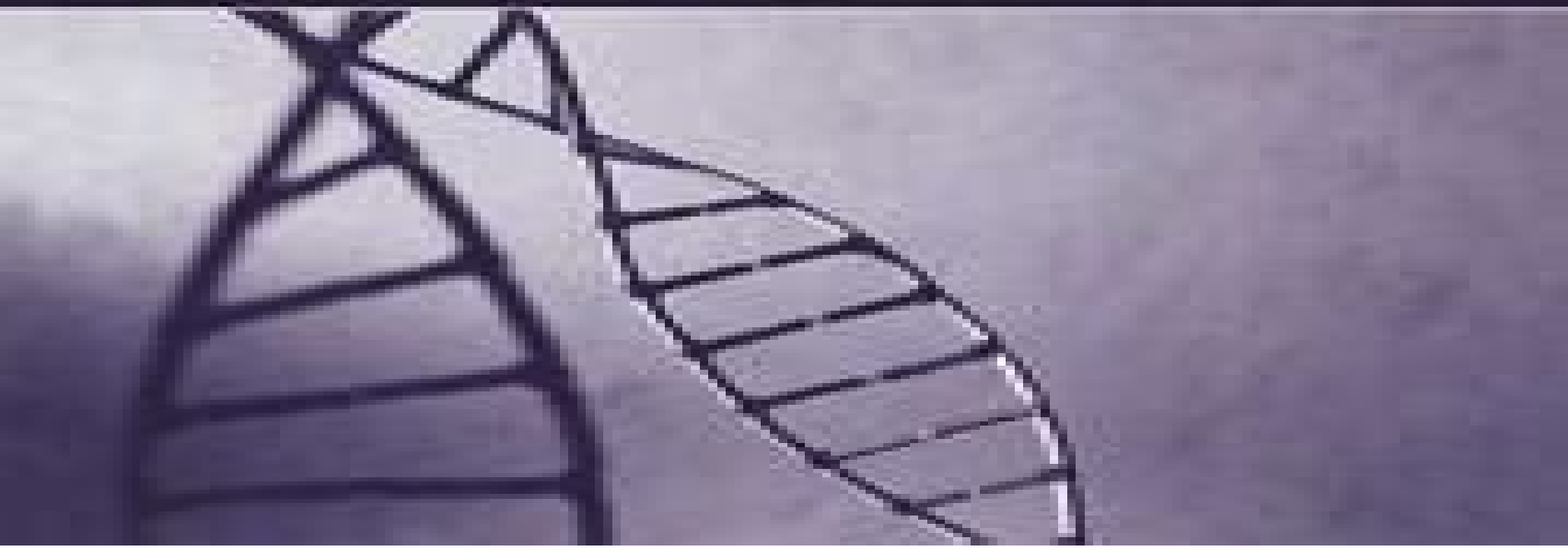


The Race to Commercialize Biotechnology

Molecules, markets and the state in the
United States and Japan

Steven W. Collins

Neosup. Immunol. Biotechnol. Chicago, University of Chicago Press



Race To Commercialize Biotechnology Molecules Market And The State In Japan And The Us

**Robert J. Pekkanen, Yutaka
Tsujinaka, Hidehiro Yamamoto**



Race To Commercialize Biotechnology Molecules Market And The State In Japan And The Us:

The Race to Commercialize Biotechnology Steven Collins, 2004-07-31 This comparative study looks at the early development of biotechnology in the US and Japan Drawing on primary and secondary sources it traces the historical roots of recombinant DNA technology discusses the tensions between regulation and promotional policies and identifies the major actors and strategies that launched biotechnology in both countries Developing several strands of theory in economic history science and technology policy the book proposes a simple model that relates the differences in the two countries responses to variations in the availability of institutional financial and organizational resources needed to commercialize the new technology

The Japanese Pharmaceutical Industry Maki Umemura, 2011-03-02 This book explores why Japan despite being a world leader in many high technology industries such as automobiles and consumer electronics is only a minor player in the global pharmaceutical industry Japan provides a huge market for pharmaceuticals as the second largest consumer of prescription drugs after the United States and is a massive importer of prescription drugs relying on discoveries made elsewhere This book charts the development of the industry from the devastation resulting from the Second World War to its performance in the present day Focusing in particular on antibiotics and anticancer drugs the book analyses factors that have prevented Japan from leading the rapid advances in science and technology that have occurred globally over recent decades Looking at the pharmaceutical industry the book argues that the Japanese government s research and development policies were not sufficiently incentivising It also shows how the nature of capitalism in Japan which featured close relations between government and industry as well as between and within firms was appropriate for nurturing industrial development in the immediate post war decades but became much less effective in later years *The Race to Commercialize*

Biotechnology Steven Wayne Collins, 2004 This comparative study looks at the early development of biotechnology in the US and Japan Drawing on primary and secondary sources it traces the historical roots of recombinant DNA technology discusses the tensions between regulation and promotional policies and identifies the major actors and strategies that launched biotechnology in both countries Developing several strands of theory in economic history science and technology policy the book proposes a simple model that relates the differences in the two countries responses to variations in the availability of institutional financia

Handbook of Pharmaceutical Biotechnology Shayne Cox Gad, 2007-05-23 A practical overview of a full range of approaches to discovering selecting and producing biotechnology derived drugs The Handbook of Pharmaceutical Biotechnology helps pharmaceutical scientists develop biotech drugs through a comprehensive framework that spans the process from discovery development and manufacturing through validation and registration With chapters written by leading practitioners in their specialty areas this reference Provides an overview of biotechnology used in the drug development process Covers extensive applications plus regulations and validation methods Features fifty chapters covering all the major approaches to the challenge of identifying producing and formulating new biologically derived therapeutics

With its unparalleled breadth of topics and approaches this handbook is a core reference for pharmaceutical scientists including development researchers toxicologists biochemists molecular biologists cell biologists immunologists and formulation chemists It is also a great resource for quality assurance assessment control managers biotechnology technicians and others in the biotech industry

The US-Japan Alliance David Arase, Tsuneo Akaha, 2013-01-11 Japan's use of Soft power in its international politics is as yet understudied Soft power presents as many challenges as promises This book explores the way Japan uses soft power in its relationship with the US its Asian neighbours and Europe and aims to contribute to a deeper understanding of the role of soft power in international relations Hard power on the other hand is more tangible and has received far greater scholarly scrutiny than soft power However as this collection makes clear hard power has its limitations and counterproductive consequences as an instrument of policy This book makes it clear that hard power alone will not provide Japan with the peace and security it desires A smart balancing or mixture of hard and soft power is required Is Japan up to this challenge While this book cannot give a definitive answer to this question the excellent line up of contributors present their best analyses of the effectiveness of Japan's current attempt at balancing the two components of national power in meeting its bilateral and multilateral security challenges The US Japan Alliance is suitable for upper undergraduates postgraduates and academics in International Politics Political Science Security studies and Japanese studies Winner of The Masayoshi Ohira Memorial Special Prize 2011

Labour Market Deregulation in Japan and Italy Hiroaki Richard Watanabe, 2014-11-13 Japan and Italy encountered severe economic problems in the early 1990s and the governments had to deal with those issues effectively under the increasing neoliberal pressures of globalisation In this context labour market deregulation was considered an effective tool to cope with those economic problems However the forms and degrees of labour market deregulation in the two countries were quite different This book seeks to explain the differences in labour market deregulation policies between Japan and Italy despite the fact that the two countries shared a number of similar political social and labour market if not cultural characteristics Uniquely it takes a political rather than economic or sociological perspective to provide a theoretical and empirical analysis of the processes of labour market deregulation in the two countries The precarious working conditions of an increasing number of non regular workers has become a prominent social issue in many industrialised countries including Japan and Italy but the level of the protection for these workers depends on a country's labour market policies which are affected by the power resources of labour unions and labour policy making structures This book provides a useful perspective for understanding the root causes of this phenomenon such as the diffusion of neoliberal ideas aimed at promoting labour market flexibility under globalisation and demonstrates that there is still room for politics to decide the extent of deregulation and maintain worker protection from management offensives even in an era of globalisation Labour Market Deregulation in Japan and Italy Worker Protection under Neoliberal Globalisation will appeal to students and scholars of Japanese politics Italian politics political economy and

comparative politics *Japan's Interventionist State* Aurelia George-Mulgan, 2004-08-02 Japan's Interventionist State gives a detailed examination of Japan's Ministry of Agriculture Forestry and Fisheries and its role in promoting protecting and preserving the regime of agricultural support and protection This account is integral to the author's extended and multidimensional explanation for why Japan continues to provide high levels of assistance to its farmers and why it continues to block market access concessions in the WTO and other agricultural trade talks **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 Managing Medical Technological Innovations: Exploring Multiple Perspectives Tugrul U Daim, Alexander Brem, 2019-12-23 This book addresses the issue of modern medical innovations management through an inductive approach by looking into cases before putting forward solutions in terms of strategies and tools It provides a model for the designing and implementation of effective healthcare technology management HTM systems in hospitals and healthcare provider settings as well as promotes a new method of analysis of hospital organization for decision making regarding technology to show how systematic management using a strategy that balances bottom up and top down driven innovations can deliver better medical technological advances Managing Medical Technological Innovations is organized in three parts Part 1 covers innovation strategies laying the groundwork and concepts in design thinking Part 2 follows by presenting the tools available for implementation And finally Part 3 uses the case studies of pharmaceutical firms in China and hospital medical record management in Holland to illustrate how these ideas and methodologies have been applied This book is suitable for healthcare administrators management and IT personnel involved in the planning expansion and maintaining of healthcare technology management and organisation seeking a reference with most recent approaches and cases from an international context researchers seeking new approaches to apply to emerging medical technologies in different regions and graduate students who are either doing their research or taking introductory as well as advanced courses in engineering and technology management in different parts of the world Historical Dictionary of Postwar Japan William D.

Hoover,2018-12-15 Japan is a mix of the old and the new traditional and modern and old fashion and innovative It has traveled the road to a modern destination without totally losing sight of its traditions and values Although some in Japan lament the passing of old ways Japan has held on to a reasonable amount of its traditions and values This is easier to find in its arts and crafts and its literature and films as well as in its social habits This book will introduce the broad sweep of people events and trends including the successes and failures of postwar Japan This second edition of Historical Dictionary of Postwar Japan contains a chronology an introduction appendixes and an extensive bibliography The dictionary section has over 500 cross referenced entries on important personalities politics economy foreign relations religion and culture This book is an excellent resource for students researchers and anyone wanting to know more about Japan **Party Politics and**

Decentralization in Japan and France Koichi Nakano,2009-12-04 Using Japan and France as case studies this book argues that decentralization is fundamentally an oppositional policy advocated by political parties in opposition placed on the legislative agenda when they come to power and pursued at times even when it ceases to make partisan sense to do so In short decentralization occurs when the opposition governs Configurations of Family in Contemporary Japan Tomoko

Aoyama,Laura Dales,Romit Dasgupta,2014-09-15 The middle class nuclear family model has long dominated discourses on family in Japan Yet there have always been multiple configurations of family and kinship which in the context of significant socio economic and demographic shifts since the 1990s have become increasingly visible in public discourse This book explores the meanings and practices of family in Japan and brings together research by scholars of literature gender studies media and cultural studies sociology and anthropology While the primary focus is the Japanese family it also examines the experience and practice of family beyond the borders of Japan in such settings as Brazil Australia and Bali The chapters explore key issues such as ageing single households non heterosexual living arrangements and parenting Moreover many of the issues addressed such as the growing diversity of family the increase in single person households and the implications of an ageing society are applicable to other mature late industrial societies Employing both multi and inter disciplinary approaches this book combines textual analysis of contemporary television film literature manga anime and other media with empirical and ethnographic studies of families in Japan and in transnational spaces As such it will be of great interest to students and scholars working across a number of fields including Japanese culture and society sociology of family gender studies film and media studies literature and cultural studies and gerontology **Japan's International Fisheries Policy**

Roger D. Smith,2014-09-19 Few nations rely upon the ocean as much as Japan for livelihood culture and transport The seas have long played a vital role for the Japanese helping to support the economic and social life of a nation that possesses few resources and little arable land and sustain a population that has nearly tripled in the last century Fish are a distinctive feature of the Japanese diet constituting nearly half of all animal protein consumed the highest rate in the world The industry itself has provided an impetus for coastal community growth and national economic development over the past century while

fisheries have worked their way into Japanese culture and customs serving as a dominant symbol in traditional arts and folklore This book explores the overarching rationale that motivated Japanese international fisheries policy throughout the post war period until today highlighting the importance of international fisheries to Japan and the stature this resource has occupied as a national interest It provides a comparative view of Japanese foreign policy at various ocean conferences treaty negotiations bilateral diplomatic initiatives and other maritime relations that constitute ocean policy over half a century and investigates the domestic constituents of national policy Roger Smith argues that the rationale for international fisheries policy may be best viewed as deriving from Japan s unique defence strategy for its national interests comprehensive security Encompassing non military elements and most importantly defence of economic interests Japan s international fisheries policy provides an interesting case study of how comprehensive security is conceptualised and carried out Taking a broad view of Japan s international fisheries policies from 1945 to the present this book highlights the key trends in policy motives and means throughout the post war period As such it will be of great interest to students and scholars of Japanese studies international and environmental law resource management and international relations as well as to policy makers working in the field

Neighborhood Associations and Local Governance in Japan Robert J. Pekkanen, Yutaka Tsujinaka, Hidehiro Yamamoto, 2014-06-20 Although local neighborhood associations are found in many countries Japan s are distinguished by their ubiquity scope of activities and very high participation rates making them important for the study of society and politics Most Japanese belong to one local neighborhood association or another making them Japan s most numerous civil society organization and one that powerfully shapes governance outcomes in the country And they also often blur the state society boundary making them theoretically intriguing Neighborhood Associations and Local Governance in Japan draws on a unique and novel body of empirical data derived from the first national survey of neighborhood associations carried out in 2007 and provides a multifaceted empirical portrait of Japan s neighborhood associations It examines how local associational structures affect the quality of local governance and thus the quality of life for Japan s citizens and residents and illuminates the way in which these ambiguous associations can help us refine civil society theory and show how they contribute to governance As well as outlining the key features of neighbourhood associations the book goes on to examine in detail the way in which neighbourhood associations contribute to governance in terms of social capital networks with other community organizations social service provision cooperation with local governments and political participation This book will be welcomed by students and scholars of Japanese politics Japanese society anthropology urban studies as well as those interested in social capital and civil society

The Great Transformation of Japanese Capitalism Sébastien Lechevalier, 2014-02-05 In the 1980s the performance of Japan s economy was an international success story and led many economists to suggest that the 1990s would be a Japanese decade Today however the dominant view is that Japan is inescapably on a downward slope Rather than focusing on the evolution of the performance of Japanese capitalism this book

reflects on the changes that it has experienced over the past 30 years and presents a comprehensive analysis of the great transformation of Japanese capitalism from the heights of the 1980s through the lost decades of the 1990s and well into the 21st century This book posits an alternative analysis of the Japanese economic trajectory since the early 1980s and argues that whereas policies inspired by neo liberalism have been presented as a solution to the Japanese crisis these policies have in fact been one of the causes of the problems that Japan has faced over the past 30 years Crucially this book seeks to understand the institutional and organisational changes that have characterised Japanese capitalism since the 1980s and to highlight in comparative perspective with reference to the neo liberal moment the nature of the transformation of Japanese capitalism Indeed the arguments presented in this book go well beyond Japan itself and examine the diversity of capitalism notably in continental Europe which has experienced problems that in many ways are also comparable to those of Japan The Great Transformation of Japanese Capitalism will appeal to students and scholars of both Japanese politics and economics as well as those interested in comparative political economy

Modern Japan Elise K. Tipton, 2008-03-19 This thoroughly updated second edition of Modern Japan provides a concise and fascinating introduction to the social cultural and political history of modern Japan Ranging from the Tokugawa period to the present day the book charts the country's evolution into a modernized economic and political world power Dealing with a broad and stimulating range of topics in an engaging style that will appeal to university students and the general reader this book weaves social and political developments and balances a micro with a macro approach introducing details about everyday lives that shed light on the bigger picture of major historical changes Its systematic attention to gender issues minorities and popular culture distinguishes this history and contributes to a sense of the complexity and diversity of modern Japanese society Completely up to date and including many new images and a timeline that charts important events this highly accessible and comprehensive textbook is an essential resource for students scholars and teachers of Japanese history politics culture and society

Japan's Agricultural Policy Regime Aurelia George Mulgan, 2012-11-12 Written by the world's leading expert in the field this book examines the evolution of Japanese agricultural policy in the post war period focusing particularly from the 1970s onwards when both domestic and external pressures for reform began to intensify The author explains how the MAFF has safeguarded their institutional capacity to intervene by accommodating both public interest in agricultural policy reform alongside the interests of government in maintaining agricultural support and protection The book provides a major reinterpretation of agricultural policy examining how the MAFF's role as an intervention maximiser has been redefined in the face of continued bureaucratic involvement Making available in English for the first time Japanese policy changes in the post war period the book will appeal to political economy specialists and political scientists and those with an interest in Japanese politics and bureaucratic institutions

Understanding Japanese Society Joy Hendry, 2012 This new edition provides a clear introduction to Japanese society which does not require any previous knowledge of the country It contains new material on the effects of

the Asian crisis and recession in Japan the changes to the Japanese ruling political elite and more The Buraku Issue and Modern Japan Ian Neary, 2009-12-18 Casting new light on majority minority relations and the struggle for Buraku liberation this book focuses on Matsumoto Jiichiro arguably the most important Buraku leader of the twentieth century locating his experience within the broader developments in Japan s social political and economic history Schoolgirls, Money and Rebellion in Japan Sharon Kinsella, 2013-11-07 Japanese society in the 1990s and 2000s produced a range of complicated material about sexualized schoolgirls and few topics have caught the imagination of western observers so powerfully While young Japanese girls had previously been portrayed as demure and obedient in training to become the obedient wife and prudent mother in recent years less than demure young women have become central to urban mythology and the content of culture The cultic fascination with the figure of a deviant school girl which has some of its earliest roots in the nineteenth and early twentieth centuries likewise re emerged and proliferated in fascinating and timely ways in the 1990s and 2000s Through exploring the history and politics underlying the cult of girls in contemporary Japanese media and culture this book presents a striking picture of contemporary Japanese society from the 1990s to the start of the 2010s At its core is an in depth case study of the media delight and panic surrounding delinquent prostitute schoolgirls Sharon Kinsella traces this social panic back to male anxieties relating to gender equality and female emancipation in Japan In each chapter in turn the book reveals the conflicted nostalgic pornographic and at times distinctly racialized manner in which largely male sentiments about this transformation of gender relations have been expressed The book simultaneously explores the stylistic and flamboyant manner in which young women have reacted to the weight of an obsessive and accusatory male media gaze Covering the often controversial subjects of compensated dating enjo k sai the role of porn and lifestyle magazines the historical sources and politicized social meanings of the schoolgirl and the racialization of fashionable girls Schoolgirls Money Rebellion in Japan will be invaluable to students and scholars of Japanese culture and society sociology anthropology gender and women s studies

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