Comparative Approaches to Biotechnology Development and Use in Developed and Emerging Nations

Part of the Advances in Bioinformatics and Biomedical Engineering Book Series

Tomas Gabriel Bas (University of Talca, Chile) and Jingyuan Zhao (University of Toronto, Canada)

Description:

The development of biotechnological innovations is quickly becoming a globalized phenomenon as emerging nations are making major strides to compete with more developed economies. Though efforts to bridge the gap between emerging and developed nations have been successful, there are still many barriers that need to be overcome.

Comparative Approaches to Biotechnology Development and Use in Developed and Emerging Nations evaluates the importance of manufacturing biotechnological products around the world. Highlights a comparative analysis of public policies, technological policies, innovations, and marketing capabilities of developed and emerging nations.



Readers:

This publication is a pivotal reference source for government officers, policy makers, academics, and practitioners.

Topics Covered:

- Economic Development
- Entrepreneurship
- Nutraceuticals
- Product Development
- Public Policies
- Supply Chain
- Technological Innovation

Hardcover + Free E-Book:

E-Book Only:

\$205.00

\$205.00

Order Information

Phone: 717-533-8845 x100 Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115 Online Bookstore: www.igi-global.com



Table of Contents

Chapter 1: Nutraceutical Industry with the Collaboration of Biotechnology and Nutrigenomics Engineering: The Significance of Intellectual Property in the Entrepreneurship and Scientific Research Ecosystems

Tomas Gabriel Bas, University of Talca, Chile

Chapter 2: Bioinformatics: The Convergence between Biotechnology and ITC Impacts on the Productive Sector Jorge E. Niosi, UQAM, Canada

Chapter 3: Influence of Star Bioscientists on Obtaining Venture Capital for Canadian Dedicated Biotechnology Firms Johanne Queenton, University of Shebrooke, Canada

Chapter 4: A Romance of the Three Kingdoms-Biotechnology Clusters in Beijing, Shanghai and Guangdong Province, China Petr Hanel, Université de Sherbrooke, Canada Jie Hie, Université de Sherbrooke, Canada Jingyan Fu, Jinan University, China Susan E. Reid, Bishop's University, Canada Jorge E. Niosi, Université de Quebec à Montréal, Canada

Chapter 5: Is Collaboration Important at All Stages of the Biotechnology Product Development Process? Catherine Beaudry, Polytechnique Montreal, Canada

Chapter 6: Entrepreneurial Approach to Biotechnology Policies and Development in India Neeta Baporikar, HP-GSP, Namibia University of Science and Technology, Namibia; University of Pune, India

Chapter 7: Institutions as Enablers of Science-Based Industries: The Case of Biotechnology in Mexico
Marcia Villasana, Technologico de Monterrey, Mexico

Chapter 8: A New Tool for Supporting Innovation in Biotech Co-Innovation and the Role of Economic Developers Marina Frangioni, Bishop's University, Canada

Chapter 9: The Turkish Biotechnology System: Functioning or Malfunctioning?

Dilek Cetindamar, Sabanci University, Turkey

Chapter 10: Importance of Biotechnology in the Development of Functional Foods in Emerging Countries: The Case of Chile

Chapter 11: What Influences the Growth of Canadian Biotechnology Firms?

Catherine Beaudry, Polytechnique Montreal, Canada Joël Levasseur, Polytechnique Montreal, Canada

Carolina Alejandra Oliu, University of Talca, Chile

Chapter 12: Corporate Social Responsibility of Pharmaceutical Industry Towards Access to Medicine: A Case Study of GlaxoSmithKline
Rakhi Rashmi, London School of Business and Finance, UK

Chapter 13: Collaboration, Innovation, and Funding as Survival Factors for Canadian Biotechnology SMEs Catherine Beaudry, Polytechnique Montreal, Canada Joël Levasseur, Polytechnique Montreal, Canada

Chapter 14: The Competitive and Comparative Advantages Effectively Fostered by National Innovation Systems: An Exploratory Study Silvia Ivonee Ponce, HEC Montreal, Canada Mauricio Poblete Bustamante, Universidad Catolica del Maule, Chile Tomas Gabriel Bas, Universidad de Talca, Chile

Chapter 15: Regional Innovation Pattern: A Case of Beijing Biopharmaceutical Industrial Clusters Jingyuan Zhao, University of Toronto, Canada

Tomas Gabriel Bas is the Director of Institute of Innovation based in Science. Director M.Sc. in Technology Management. Vice-Rector for innovation and Technology Transfer (University of Talca). Ph.D. in Technology Management and Marketing of Innovation from University of Quebec (Canada). He has a M.Sc. in Environment of University of Montreal (Canada). He has two post-doctoral in Technology Innovation Clusters from University of Quebec (Canada) and in Knowledge and Technology Innovation in Natural Resources Industries from University Adolfo Ibañez (Chile). His research projects focus on biotechnology, nanotechnology and bio materias management, technological innovation, clusters, knowledge in natural resources and public policies. He is professor of technology and innovation management at the University Talca (Chile) and consultant for World Bank, United Nations, IDRC, Statistics Canada and many multinationals firms. Honors: "Who's Who in the World", "Top 100 Scientists 2011" International Biographical Centre, Cambridge, England. "2000 Outstanding Intellectuals of the 21st Century – 2011". International Biographical Centre, Cambridge, England. "Bright Minds - Brain World Class". One of the 10's most influential researchers of Chile in Economics and Management (according to international citation index ISI).

Jingyuan Zhao is a research fellow at University of Toronto, Canada. She was a professor at Beijing Union University (China). She obtained her PhD in Management Science and Engineering from University of Science and Technology of China (China) and completed a postdoctoral program in Management of Technology from University of Quebec at Montreal (Canada). Dr. Zhao's expertise is on regional innovation system, high-tech industry cluster, knowledge management, technology diffusion, organizational learning.