

Agricultural Biotechnology and Poverty Reduction in Low-income Countries

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Summary. — While biotechnology innovation is concentrated in high income, “Tier I” countries, international diffusion of innovations to improve the diet, health, and incomes of the poorest will be largely driven by “Tier II” innovators such as China and Brazil. Adoption of beneficial biotechnologies in “Tier II” and “Tier III” countries will increase as more transgenic versions of conventionally grown varieties become available and as costs decline, which in turn will depend upon regulatory approvals being needed only once for each transformation event and transaction costs for accessing technologies being minimized. Investments in higher education and intellectual property clearinghouse institutions can greatly facilitate technology transfer.
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Key words. — agriculture, biotechnology, globalization, innovation, poverty, technology transfer

1. INTRODUCTION AND BACKGROUND

Economic history can be read as a testament to the transformative power of technology in relation to the human condition (Rosenberg, 1982). The older part of this testament tells of a progression from hunting to farming to military technologies, while the newer part begins when mechanization and fossil fuels were enlisted for industrial production. Across the entire chronicle, we see the catalyst that technology has been for economic growth, improvement of human welfare, and alleviation of poverty. Using energy-intensive mechanical technologies, we have achieved living standards for hundreds of millions of people around the globe that are beyond the imagination of prior generations (Bresnahan & Gordon, 1997). Yet, despite raising average standards of living, technology has not eliminated poverty.

World Bank (2000) estimated that in 1998, 56% of humanity lived on less than \$2 a day and 24% subsisted on less than \$1 a day. Detailed analyses of poverty¹ reveal that entry into this status and exit from it are asymmetric, yet share some important characteristics. A primary reason for a household falling into poverty is an adverse health event,² including mortality. On the upside, the main determinant

of a transition from poverty to non-poverty is (formal and informal) employment. In both cases, health status is critical, directly with respect to downside poverty risk and indirectly in terms of fitness for labor recruitment and productivity.

Biotechnology has the potential to improve living standards in low-income countries. Applications of biotechnology can increase food output, improve nutritional quality, and raise health status. Although it remains an area of controversy, biotechnology has already achieved significant productivity gains and improvement in health status of farm workers (Huang, Hu, Rozelle, & Pray, 2005; Pray, Huang, Hu, & Rozelle, 2002). Somewhat less controversially, genetic biofortification of food crops is poised as a biologically and economically effective approach to widespread alleviation of micronutrient deficiencies (Albrecht, 2002; Bouis, 2004). Less controversially still, biotechnology has certainly begun to alter the landscape of preventative and therapeutic medicine, and additionally it is beginning to enlist food and agriculture in ever more creative ways to prevent and treat disease, including naturally

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Claudia Ringler**



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Agricultural Biotechnology, Poverty Reduction, and Food Security Asian Development Bank, 2001 This book is based on a study conducted by the Asian Development Bank ADB together with the Australian Centre for International Agricultural Research and the Australian Agency for International Development to examine the opportunities and risks of using biotechnology in reducing poverty and achieving food security in Asia **Development Centre Seminars**

Technology and Poverty Reduction in Asia and the Pacific OECD, Asian Development Bank, 2002-06-05 Poverty reduction remains a major development challenge in much of Asia and the Pacific Historically technology has played a central role in raising living standards across the region including those of the poor The Green Revolution and various

Agricultural Research and Poverty Reduction Peter Hazell, Lawrence James Haddad, 2001 The nature and extent of poverty How agricultural research can help the poor On farm productivity impacts Impact on Inter regional migration Impact on the nonfarm economy Impact on food prices and diet quality Targeting agricultural research to benefit the poor Strategies for pro poor agricultural research Research strategies for smallholder farmers for landless laborers and for more nutritious foods The role of public research and extension systems **Agricultural Biodiversity and Biotechnology in Economic**

Development Joseph Cooper, Leslie Lipper, David Zilberman, 2006-05-27 The topics addressed in this book are of vital importance to the survival of humankind Agricultural biodiversity encompassing genetic diversity as well as human knowledge is the base upon which agricultural production has been built and protecting this resource is critical to ensuring the capacity of current and future generations to adapt to unforeseen challenges Agricultural biodiversity underpins the productivity of all agricultural systems and is particularly important for poor and food insecure farmers who maintain highly diverse production systems in response to the marginal and risky production conditions they operate under Understanding the importance of agricultural biodiversity in the livelihoods of the food insecure and enhancing its performance through the use of a variety of tools including biotechnology is a critically important issue in the world today where over 800 million people have insufficient food to meet minimum needs A strong theme that runs throughout the book is the importance of good public policy interventions to promote the provision of public goods associated with agricultural biodiversity conservation and directing biotechnology development to meet the needs of the poor The book's primary innovation is that it describes the relationship between biotechnology and plant genetic diversity and puts these in the context of agricultural development Both the conservation of plant genetic diversity and agricultural biotechnology have received extensive examination but the linkages between the two have not despite the apparently obvious relationship between the two

Agricultural Biotechnology in Sub-Saharan Africa John Edward Otieno Rege, Keith Sones, 2022-06-22 This book offers a comprehensive analysis of the application level for various agricultural biotechnologies across Sub Saharan Africa The authors examine the capacity available as well as the enabling environment including policy and investments for

facilitating agricultural biotechnology development and use in the region For each Sub Saharan country the status of biotechnology application is assessed in four major sectors Crops Livestock Forestry and Aquaculture Examples such as the number and requisite skill levels of trained personnel biosafety frameworks and public awareness are surfaced in these chapters This work also discusses the impact of push pull factors on research training and food security and identifies opportunities for investment in biotechnology and local agribusiness Development partners policy makers agricultural consultants as well as scientists and private sector investors with an interest in biotechnology initiatives in Sub Saharan Africa will find this collection an important account to identify key gaps in capacity and policy as well as priority areas going forward The volume highlights ways to develop technology and increase agricultural production capacity through international cooperation and inclusive economic growth making it a valuable practice guide in line with the UN Sustainable Development Goals in particular SDG 2 Zero Hunger and SDG 8 Decent Work and Economic Growth Clear case studies round off the reading experience

The DAC Guidelines Poverty Reduction OECD,2001-11-30 The DAC Guidelines on Poverty Reduction provide practical information about the nature of poverty and best practice approaches policies instruments and channels for tackling it

Agricultural Biotechnology in Developing Countries Matin Qaim,Anatole F. Krattiger,Joachim von Braun,2013-03-09 Biotechnology offers great potential to contribute to sustainable agricultural growth food security and poverty alleviation in developing countries Yet there are economic and institutional constraints at national and international levels that inhibit the poor people s access to appropriate biotechnological innovations Agricultural Biotechnology in Developing Countries Towards Optimizing the Benefits for the Poor addresses the major constraints Twenty three chapters written by a wide range of scholars and stake holders provide an up to date analysis of agricultural biotechnology developments in Latin America Africa and Asia Besides the expected economic and social impacts the challenges for an adjustment of the international research structure are discussed with a special focus on intellectual property rights and the roles of the main research organizations Harnessing the comparative advantages of the public and private sectors through innovative partnerships is the only way forward to optimize the benefits of biotechnology for the poor The book will be an invaluable resource for both academics and policy makers concerned with agricultural biotechnology in context of developing countries

Agricultural Biotechnology, Poverty Reduction and Food Security in Ghana Robert M. Yawson,2013 In recent weeks one aspect of science that has echoed through the media is biotechnology To the non scientist it all looks very confusing The misconception of biotechnology is a problem the whole world over Although biotechnology as a discipline has been in existence for many years in Africa perhaps with the exception of South Africa and Kenya we are now fully awakening to the brave new world of biotechnology To date South Africa continues to be the only African country that has approved transgenic crops for commercial purposes and is the leader in agricultural biotechnology research and development on the continent

Trade and Poverty Reduction in the Asia-Pacific Region Andrew L. Stoler,Jim Redden,Lee Ann

Jackson, World Trade Organization, 2009-12-03 An examination of how trade can act as a catalyst for poverty reduction in the Asia Pacific region

Natural Resources Management and Agrarian Development Reji D. Nair, 2010

Measuring Ethiopian Farmers' Vulnerability to Climate Change Across Regional States Temesgen Deressa, Rashid M. Hassan, and Claudia Ringler,

Vulnerability and the Impact of Climate Change in South Africa's Limpopo River Basin Sharon Shewmake, 2008

Analyzing the Determinants of Farmers' Choice of Adaptation Methods and Perceptions of Climate Change in the Nile Basin of Ethiopia Temesgen Deressa, R. M. Hassan, Tekie Alemu, Mahmud Yesuf, and Claudia Ringler,

Biotechnology and Agricultural Development Rob Tripp, 2009-06-02 The controversy over genetically modified GM crops in industrialized countries is paralleled by a loud debate over their potential role in developing countries with supporters claiming that GM crops are the best hope for reducing rural poverty and hunger and opponents predicting that they can only bring corporate control of peasant agriculture and environmental disaster This book offers an examination of the performance of the new technology in the broader context of the agricultural institutions that govern its generation

Biosafety at the Crossroads: An Analysis of South Africa's Marketing and Trade Policies for Genetically Modified Products Debdatta Sengupta, 2008

Economic Transformation in Theory and Practice: What are the Messages for Africa? Clemens Breisinger and Xinshen Diao, 2008

Emerging Consequences of Biotechnology Krishna R. Dronamraju, 2008 The principal message of this book is that thermodynamics and statistical mechanics will benefit from replacing the unfortunate misleading and mysterious term entropy with a more familiar meaningful and appropriate term such as information missing information or uncertainty This replacement would facilitate the interpretation of the driving force of many processes in terms of informational changes and dispel the mystery that has always enshrouded entropy It has been 140 years since Clausius coined the term entropy almost 50 years since Shannon developed the mathematical theory of information Subsequently renamed entropy In this book the author advocates replacing entropy by information a term that has become widely used in many branches of science The author also takes a new and bold approach to thermodynamics and statistical mechanics Information is used not only as a tool for predicting distributions but as the fundamental cornerstone concept of thermodynamics held until now by the term entropy The topics covered include the fundamentals of probability and information theory the general concept of information as well as the particular concept of information as applied in thermodynamics the re derivation of the Sackur Tetrode equation for the entropy of an ideal gas from purely informational arguments the fundamental formalism of statistical mechanics and many examples of simple processes the driving force for which is analyzed in terms of information

Race to the Top and Race to the Bottom: Tax Competition in Rural China Xiaobo Zhang, 2008

Cotton-Textile-Apparel Sectors of Pakistan: Situations and Challenges Faced Caesar B. Cororaton, Abdul Salam, Zafar Altaf, David Orden and Reno Dewina, Nicholas Minot, Hina Nazli,

Gender, Caste, and Public Goods Provision in Indian Village Governments Kiran Gajwani and Xiaobo Zhang, 2008

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