

Agricultural Biotechnology and Developing Countries: Prospects, Challenges, and Impact

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ABSTRACT

Agbiotech has the potential to be used to address hunger and food security needs of developing countries. To achieve this, several challenges will have to be addressed chief of which are inadequate scientific capacity for biotechnology, unfavorable government policies, lack of biosafety regulations, capacity to effectively manage intellectual property, and lack of financial resources. Developing countries vary in the degree to which the challenges exist in the nation. Some countries such as China, India, South Africa, and Brazil have well established agbiotech infrastructure and are already commercializing certain products. Contrary to the fact that agbiotech is not as advanced in most developing countries, some of those countries are among the leaders in the adoption of GM crops for commercial production, the leaders being Argentina, Brazil, South Africa and China. Most developing countries use second generation biotechnology, that is, primarily tissue culture. A relatively few number of countries have high scientific capacity to conduct research and development using third generation biotechnology involving transgenesis. The decision to adopt agbiotech should be made by each nation according to its needs, and not imposed or obstructed by external interests.

1. INTRODUCTION

Agriculture is the mainstay of the economies of most low-income developing countries. It contributes between 20 and 25% of the gross domestic product (GDP) and the majority of export earnings of these countries (Ketema et al. 2003). In Africa, the contribution of agriculture to the GDP is estimated at 40%, with an estimated 70 to 75% of the population living in rural areas and depending entirely on income from agriculture and agribusiness (Machuka 2003, UNECA 2002). Food is a basic human need, and access to food a basic human right issue (Ketema et al. 2003). The world population is rapidly increasing. In China, it is projected that the population will reach 1.6 billion in 2030, with a conservative estimate of 60% increase in demand for food (Zhang 2000). The projection for Africa is a rise to 1.7 billion by 2050 with a corresponding rise in food import from 50-70 million tons per year (Pinstrup-Andersen and Pandya-Loch 1999).

The main concern is not the projected increase in population but rather that an estimated 8-11 billion people would reside in developing countries and require a doubling in food production in these regions to sustain the population (IFPRI 1997). Further, an estimated 800 million of the current 4.6 billion people residing in developing countries are food-insecure, the distribution of affected people according to regions being 48% in Asia, 31% in Africa, and 17% in Latin America (Pensley 2000). Also, an estimated 820 million people are classified as undernourished, of which 25% are children (IFPRI 1997). Of the 1.1 billion people who live on less than one US dollar per day, 430 million are in South Asia, 325 million in Sub-Saharan Africa, 260 million in East Asia and the Pacific, and 55 million in Latin America (von Braun et al. 2005).

It is clear from the foregoing that every effort should be made to develop and implement effective strategies for increasing agricultural productivity in developing countries, to avert the dire consequences that could occur sooner or later. The experiences of the Green Revolution of the 1960s indicate that biological technology (i.e., improved cultivars), coupled with the use of intensive production technologies (e.g., irrigation and agrochemicals), can dramatically increase crop productivity. Dr. Norman Borlaug, Nobel laureate and the architect of the Green Revolution is also an advocate for the use of intensive production technologies in developing countries. He observed that in 1960 US producers of the 17 most important food, feed, and fiber crops harvested a total of 252 million tons of products as compared to 700 million tons in 1999 (Wall Street Journal 2000). The remarkable fact is that the 1999 harvest was obtained from 10 million fewer acres of land, something he attributed to the efficient production technology of today. He also pointed out that, if it were not for modern technology, it would have required 460 million acres to achieve the level of 1999 production, using 1960 technology.

Agricultural biotechnology (agbiotech) is one such modern technology that should be considered in addressing the problems of yield constraints and low nutritional quality of food products in developing countries. It comprises tools for accomplishing a wide variety of genetic manipulations, some of which transcend the capabilities of traditional plant breeding (Acquah 2004). Some of the most important food crops of

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**John A. Dixon, David P. Gibbon, Aidan
Gulliver, Food and Agriculture
Organization of the United Nations**

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Potential Impacts of Crop Biotechnology in Developing Countries Matin Qaim, 2000 Crop biotechnology could boost global food production in a sustainable way However the economic repercussions of biotechnology for developing countries are largely unknown and have been the subject of acute controversy over the last few years This study deals with the topic and provides some preliminary empirical results An analytical framework for the ex ante evaluation of biotechnology in smallholder agriculture is developed which is then used within three different case studies in Kenya and Mexico It is shown that biotechnology holds great potentials for poor agricultural producers and consumers Yet appropriate institutional adjustments are required to capitalize on these potentials Implications for national and international biotechnology policies are discussed **Policy and Regulation in Bioengineering and Biotechnology** Andrea Wilcks, Hector

Quemada, 2023-12-13 **Genetically Modified Food and International Trade** Guillaume Gruère, Antoine Bouët, and Simon Mevel, *Biosafety of Genetically Modified Organisms 3* Karen Hokanson, Andrew F. Roberts, Joerg Romeis, Joe Smith, Alan Raybould, 2021-10-14 *Climate Change 2022 - Impacts, Adaptation and Vulnerability* Intergovernmental Panel on Climate Change (IPCC), 2023-06-22 The Working Group II contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the scientific literature relevant to climate change impacts adaptation and vulnerability The report recognizes the interactions of climate ecosystems and biodiversity and human societies and integrates across the natural ecological social and economic sciences It emphasizes how efforts in adaptation and in reducing greenhouse gas emissions can come together in a process called climate resilient development which enables a liveable future for biodiversity and humankind The IPCC is the leading body for assessing climate change science IPCC reports are produced in comprehensive objective and transparent ways ensuring they reflect the full range of views in the scientific literature Novel elements include focused topical assessments and an atlas presenting observed climate change impacts and future risks from global to regional scales Available as Open Access on Cambridge Core **Bibliography of Agriculture with Subject Index**, 1993-07 **GMOs and Political Stance** Muhammad Amjad

Nawaz, Gyuhwa Chung, Kirill Sergeyevich Golokhvast, Aristidis M. Tsatsakis, 2022-12-06 *GMOS and Political Stance* Global GMO Regulation Certification Labeling and Consumer Preferences provides a foundational to current challenges resource for those involved in developing and applying regulations to these important resources Beginning with basics of GMOs the book first familiarizes the reader with the history economic status associated risks global politics and socio economics of GMOs From exploring the necessity of GMO regulations with the existing GMO technology as well as new gene editing technologies to discussion by GMO regulations experts from different continents and countries readers will find the information necessary to understand the laws rules regulations and policies at domestic and international scale A last chapter delivers an update and future look on gene edited food and feed and discusses the possibilities on the future risk assessment legislation and

regulation of gene edited products GMOS and Political Stance provides a unique and applicable synchronization of all regulatory information on GMOs to facilitate effective and efficient regulatory development and adherence Guides law and policy makers particularly from developing countries toward sound policies in line with international regulations Presents a global overview of genetic modification of organisms and their emerging role in food supply Provides insights into future risk assessment strategies and potential for new legislative process development [2003-2004 IFPRI Annual Report](#) International Food Policy Research Institute,2004-09-27 The Annual report contains an essay Agriculture food security nutrition and the Millennium Development Goals by Joachim von Braun M S Swaminathan and Mark W Rosegrant There is an overview of the Institute followed by information on research and outreach Special emphasis is given to Global Food System Functioning Food System Governance and Food System Innovations [Index to International Statistics](#) ,1988 [Bulletin of the Public Affairs Information Service](#) Public Affairs Information Service,1985 [The Hindu Kush Himalaya Assessment](#) Philippus Wester,Arabinda Mishra,Aditi Mukherji,Arun Bhakta Shrestha,2019-01-04 This open access volume is the first comprehensive assessment of the Hindu Kush Himalaya HKH region It comprises important scientific research on the social economic and environmental pillars of sustainable mountain development and will serve as a basis for evidence based decision making to safeguard the environment and advance people s well being The compiled content is based on the collective knowledge of over 300 leading researchers experts and policymakers brought together by the Hindu Kush Himalayan Monitoring and Assessment Programme HIMAP under the coordination of the International Centre for Integrated Mountain Development ICIMOD This assessment was conducted between 2013 and 2017 as the first of a series of monitoring and assessment reports under the guidance of the HIMAP Steering Committee Eklabya Sharma ICIMOD Atiq Raman Bangladesh Yuba Raj Khatiwada Nepal Linxiu Zhang China Surendra Pratap Singh India Tandong Yao China and David Molden ICIMOD and Chair of the HIMAP SC This First HKH Assessment Report consists of 16 chapters which comprehensively assess the current state of knowledge of the HKH region increase the understanding of various drivers of change and their impacts address critical data gaps and develop a set of evidence based and actionable policy solutions and recommendations These are linked to nine mountain priorities for the mountains and people of the HKH consistent with the Sustainable Development Goals This book is a must read for policy makers academics and students interested in this important region and an essentially important resource for contributors to global assessments such as the IPCC reports

Biotechnology Innovations and Sustainability for Zero Hunger Ranbir Chander Sobti,2025-07-30 This reference book extensively examines the important role of biotechnology in tackling the global challenge of achieving zero hunger The book delves into cutting edge advancements and challenges in food biotechnology crop improvement genetic engineering and the utilization of genetically modified organisms GMOs in sustainable agriculture It provides a detailed examination of biotechnological interventions aimed at enhancing the nutritional content of crops increasing agricultural productivity and

ensuring food security Furthermore the book explores the application of biotechnological techniques in improving animal based foods including advancements in animal breeding genetics and disease resistance The chapters also address the integration of traditional breeding approaches with biotechnology for developing healthier and more productive crops Additionally the book introduces approaches for reduction of food waste through technological solutions and the use of automation and robotics in food processing This book is useful for researchers academicians and professionals of biotechnology agriculture food science and sustainability Key Features Covers cutting edge biotechnological technologies for sustainable agriculture providing solutions to address global hunger and achieve the goal of zero hunger Discusses various crop improvement techniques including genetic engineering and genetically modified organisms Focuses on biotechnological interventions for enhancing crop productivity and nutritional value to improve food availability and quality Presents a detailed discussion of crop protection strategies and disease resistance mechanisms Provides a thorough examination of advanced technologies for improving animal based foods and technology based artificial meat Examines the application of biotechnological techniques in developing innovative food systems for reducing food waste PAIS Bulletin ,1990

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Gulliver,Food and Agriculture Organization of the United Nations,2001-01-01 Small farmers produce much of the developing world s food Yet they are generally much poorer than the rest of the population in these countries and are less food secure than even the urban poor Furthermore although the majority of the world s population will live in urban areas by 2030 farming populations will not be much smaller than they are today For the foreseeable future therefore dealing with poverty and hunger in much of the world means confronting the problems that small farmers and their families face in their daily struggle for survival Through an examination of a wide variety of farming systems across the developing world this book co published with the World Bank shows how the farming systems approach can be used to identify key local regional and international priorities for the reduction of hunger and poverty

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