

Developing Countries

2003. Impact of New Biotechnologies, with Particular Attention to Sustainable Development, Including Food Security, Health and Economic Productivity. United Nations General Assembly - 58th Session. Report to Secretary General. A58/76: 1-17.

Abdalla, A. , Berry, P. , Connell, P. , Tran, Q. , Bueltre, B. 2003. Agricultural Biotechnology - Potential Use in Developing Countries. ABARE Report. Australian Bureau of Agricultural and Resource Economics. 17: 1-57.

Anderson, K., Valenzuela, E., Jackson, L. 2006. Recent and Prospective Adoption of Genetically Modified Cotton: A Global CGE Analysis of Economic Impacts. World Bank Policy Working Paper No. 3917: 1-27.

Atanassov, A., Antonov, L., Twardowski, T. 1999. Commercial Needs and Creating New Markets in Eastern European Countries. Plant Biotechnology and In Vitro Biology in 21st Century. Proceedings of the IXth International Congress of the International Association of Plant Tissue Culture and Biotechnology. 36: 685-688.

Barry, G. 2001. The Use of the Monsanto Draft Rice Genome Sequence in Research. Plant Physiology. 125:1164-1165.

Bennett, R., Buthelezi, T., Ismael, Y., Morse, S. 2003. Bt Cotton, Pesticides, Labour and Health - A Case Study of Smallholder Farmers in the Makhathini Flats, Republic of South Africa 2003. Outlook on Agriculture. 32(2): 123 - 128.

Beyer, P., Al-Babili, S., Ye, X., Lucca, P., Schaub, P., Welsch, R., Potrykus, I. 2002. Golden Rice: Introducing the B-Carotene Biosynthesis Pathway into Rice Endosperm by Genetic Engineering to Defeat Vitamin A Deficiency. The Journal of Nutrition. 132(3): 506-510.

Beyers, L., Ismael, Y., Piesse, J. , Thirtle, C. 2002. Can GM-Technologies Help the Poor. The Efficiency of BT Cotton Adopters in the Makhathini Flats of Kwazulu-Natal. Agrekon. 41(1): 62-74.

Cabanilla, L. 2005. Economic Cost of Non-adoption of Bt-cotton in West Africa - with Special Reference to Mali. International Journal of Biotechnology. 7(1-2-3): 46-61.

Cabanilla, L., Abdoulaye, T., Sanders, J. 2003. Economic Cost of Non-adoption of Bt Cotton in West Africa - With Special Reference to Mali. 7th ICABR Int'l Conference on Public Goods and Public Policy for Agricultural Biotechnology, Ravello, Italy, June 29 to July 3, 2003: 1-20.

Cantrell, R. 1998. Rice: Hunger or Hope? IRRI 1998-99 Annual Report. Online a/o 2/20/06: 1-2. <http://www.irri.org/publications/annual/ar1999.asp>

Chrispeels, M. 2000. Biotechnology and the Poor. Plant Physiology. 124: 3-6.

Cohen, J. 2005. Poorer Nations Turn to Publicly Developed GM Crops. Nature Biotechnology. 23(1): 27-33.

- Conway, G., Toenniessen, G. 1999. Feeding the World in the Twenty-first Century. *Nature*. 402, Suppl. (6761): C55-C58.
- Dawe, D., Robertson, R., Unnevehr, L. 2002. Golden Rice - What Role Could it Play in Alleviation of Vitamin A Deficiency. *Food Policy*. 27: 541-560
- Fischer, K., Barton, J., Khush, G., Leung, H., Cantrell, R. 2000. Collaborations in Rice. *Science*. 290: 279-280.
- Flasinski, S., Aquino, V., Hautea, R., Kaniewski, W., Lam, N., Ong, C., Pillai, V., Romyanon, K. 2001. Value of Engineered Virus Resistance in Crop Plants and Technology Cooperation with Developing Countries. International Consortium on Agricultural Biotechnology Research – ICABR: 1-22.
- Frisvold, G., Tronstad, R., Reeves, J. 2004. Impacts of Bt Cotton Adoption in the United States and China. 2004 Beltwide Cotton Conferences, San Antonio, TX - January 5-9: 638-640.
- Gould, F., Cohen, M. 2000. Sustainable Use of Genetically Modified Crops in Developing Countries. *Agricultural Biotechnology and the Poor*. G. Persley, M. Lantin, Editors. Proceedings of an International Conference, Washington, DC, USA, 21-22 October, 1999: 139-146.
- Gregory, P. 2002. Adoption of Bt Cotton by Small-scale Farmers in South Africa. *Pesticide Outlook*: 3 1-34.
- Gressel, J., Levy, A. 2006. Agriculture: The Selector of Improbable Mutations. *PNAS Proceedings of National Academy of Science*. 103(3): 12215-12216.
- Hautea, R., Escaler, M. 2004. Plant Biotechnology in Asia. *AgBioForum*. 7(1-2): 2-8.
- Herrera-Estrella, L. 1999. Transgenic Plants for Tropical Regions: Some Considerations about their Development and their Transfer to the Small Farmer. *PNAS*. 96(11): 5978-5981.
- Hofs, J., Hau, B., Marais, D. 2006. Boll Distribution Patterns In Bt and Non-Bt Cotton Cultivars I. Study on Commercial Irrigated Farming Systems in South Africa. *Field Crops Research*. 98(2-3): 203-209.
- Hoisington, D., Khairallah, M., Reeves, T., Ribaut, J., Skovmand, B., Taba, S., Warburton, M. 1999. Plant Genetic Resources: What Can They Contribute Toward Increased Crop Productivity. *Proceedings of the National Academy of Sciences of the United States of America*. 96(11): 5937- 5943.
- Hossain, F., Pray, C., Lu, Y., Huang, J., Fan, C., Hu, R. 2004. Genetically Modified Cotton and Farmers' Health in China. *International Journal of Occupational and Environmental Health*. 10: 296-303.
- Huang, S., Gilbertson, L., Adans, T., Malloy, K., Reisenbigler, E., Birr, D., Snyder, M., Zhang, Q., Luethy, M. 2004. Generation of Marker-free Transgenic Maize by Regular

Two-border Agrobacterium Transformation Vectors. *Transgenic Research*. 13: 451-461.

Huang, J., Hu, R., Fan, C., Pray, C., Rozelle, S. 2003. Bt Cotton Benefits, Costs and Impacts in China. *IDS Working Paper 202*. Institute of Development Studies: 1-22.

Huang, J., Hu, R., Pray, C., Qiao, F., Rozelle, S. 2003. Biotechnology as an Alternative to Chemical Pesticides: A Case Study of Bt Cotton in China. *Agricultural Economics*. 29(1): 55 - 67.

Huang, J., Rozelle, S., Pray, C., Wang, Q. 2002. Plant Biotechnology in China. *Science*. 295: 674-677.

Huang, J., Hu, R., Rozelle, S., Qiao, F., Pray, C. 2001. Smallholders, Transgenic Varieties, and Production Efficiency. The Case of Cotton Farmers in China. Department of Agricultural and Resource Economics. University of California Davis. No 01-015. 30 Pages.

Huesing, J., English, L. 2004. The Impact of Bt Crops on the Developing World. *AgBioforum*. 7(1-2): 84-95

Ismael, Y., Bennett, R. 2004. The Potential Benefits of Agricultural Biotechnology and the Problems of European Attitudes to Biotechnology for the Economics of Small Island Developing States. University of Reading, Dept of Agricultural and Food Economics: 1-19.

Ismael, Y., Bennett, R., Morse, S., Buthelezi, J. 2002. Bt Cotton, Pesticides, Labour and Health - A Case Study of Smallholder Farmers in the Makhathini Flats, Republic of South Africa. 6th International ICABR Conference, Ravello, Italy, July 11-14, 2002: 1-13.

Ismael, Y., Bennett, R., Morse, S. 2002. Do Small-scale Bt Cotton Adopters in South Africa Gain an Economic Advantage. 6th International ICABR Conference, Ravello, Italy, July 11-14, 2002: 1-16.

Ismael, Y., Beyers, L., Lin, L., Thirtle, C. 2002. Smallholder Adoption and Economic Impacts of Bt Cotton in the Makhathini Flats, South Africa. International Consortium on Agricultural Biotechnology Research (ICABR): 1-2.

Ismael, Y., Bennett, R., Morse, S. 2001. Biotechnology in Africa - The Adoption and Economic Impacts of Bt Cotton in the Makhathini Flats, Republic of South Africa. AfricaBio Conference - Biotechnology Conference for Sub Saharan Africa, 26-27th September 2001, Johannesburg, South Africa: 1-20.

Ismael, Y., Bennett, R., Morse, S. 2001. Can Farmers in the Developing Countries Benefit from the Modern Technology - Experience from the Makhathini Flats, Republic of South Africa. *Crop Biotech Brief – ISAAA*. 1(5): 1-4. www.isaaa.org/kc

Ismael, Y., Bennett, R., Morse, S. 2001. Farm Level Impact of Bt Cotton in South Africa. *Biotechnology and Development Monitor*. 48: 15-19.

- Ismael, Y., Thirtle, C., Beyers, L. 2001. Efficiency Effects of Bt Cotton Adoption by Smallholders in Makhathini Flats. KwaZulu-Natal, South Africa Paper for the 5th International Conference on Biotechnology, Science and Modern Agriculture: A New Industry at the Dawn of the Century. Ravello, Italy, June 2000.
- Johanson, A., Ives, C. L. 2001. An Inventory of Agricultural Biotechnology for the Eastern and Central Africa Region. Michigan State University. 1 - 62. Online a/o 2/20/06. <http://www.iaa.msu.edu/absp/inventory1.html>
- Kasha, K. J. 2000. Biotechnology and World Food Supply. *Genome*. 42(4): 642-645.
- Keetch, D. , Webster, J., Ngqaka, A., Akanbi, R., Mahlangu, P. 2005. Bt Maize for Small Scale Farmers - A Case Study. *African Journal of Biotechnology*. 4(13): 1505-1509.
- Kendall, H., Beachy, R., Eisner, T., Gould, F., Herdt, R., Raven, P., Swaminathan, M., Schell, J. 1997. Bioengineering of Crops Report of the World Bank Panel on Transgenic Crops. Environmentally and Socially Sustainable Development Studies and Monographs Series No. 23. Series: Environmentally Sustainable Development Studies, Proceedings, and Monographs. (23): 1-33.
- Khush, G. 2000. Green Revolution: Preparing for the 21st Century. *Genome*. 42(4): 646-655.
- Kirsten, J., Gouse, M. , Jenkins, L. 2002. Bt Cotton in South Africa - Adoption and the Impact on Farm Incomes Amongst Small-Scale and Large-Scale Farmers. 6th International ICABR Conference, Ravello, Italy, July 11-14, 2002: 1-11.
- Kishore, G., Shewmaker, C. 1999. Biotechnology: Enhancing Human Nutrition in Developing and Developed Worlds. *Proceedings of the National Academy of Sciences of the United States of America*. 96(11): 5968-5972.
- Korban, S., Krasnyanski, S., Buetow, D. 2002. Foods as Production and Delivery Vehicles for Human Vaccines. *Supplement to Journal of the American College of Nutrition*. 21(3S): 212S-217S.
- Krattiger, A. 1998. The Importance of Ag-Biotech to Global Prosperity. *ISAAA Briefs (Brief 6)*: 1-13.
- Krattiger, A. 1997. Insect Resistance in Crops: A Case Study of Bt and its Transfer To Developing Countries. *ISAAA Briefs International Service for the Acquisition of Agri-biotech Applications*. (Brief 2): 1-46.
- Lacy, P. 2003. Deploying the Full Arsenal - Fighting Hunger with Biotechnology. *SAIS Review*. 23(1): 181-202.
- Lonnerdal, B. 2002. Expression of Human Milk Proteins in Plants. *Supplement to Journal of the American College of Nutrition*. 21(3S): 218S-221S.
- Lucca, P., Hurrell, R., Potrykus, I. 2002. Fighting Iron Deficiency Anemia with Iron-Rich Rice. *Supplement to Journal of the American College of Nutrition*. 21(3S): 184S-190S.

Mackey, M. 2003. The Developing World Benefits from Plant Biotechnology. *Journal of Nutrition Education and Behavior*. 35(4): 210-214.

Mackey, M. 2002. The Application of Biotechnology to Nutrition- An Overview. Supplement to *Journal of the American College of Nutrition*. 21(3S): 157S-160S.

Mackey, M., Montgomery, J. 2004. Plant Biotechnology Can Enhance Food Security and Nutrition in the Developing World - Part II. *Nutrition Today*. 39(5): 221-226.

Mackey, M., Montgomery, J. 2004. Plant Biotechnology Can Enhance Food Security and Nutrition in the Developing World - Part I. *Nutrition Today*. 39(2): 52-58.

Massieu, Y., Gonzalez, R.L., Chauvet, M., Castaneda, Y., Barajas, R.E. 2000. Transgenic Potatoes for Small-scale Farmers: A Case Study in Mexico. *Biotechnology and Development Monitor*. 41: 6-10.

Normile, D. 2000. Monsanto Donates its Share of Golden Rice. *Science*. 289(5481): 843-845.

Paine, J., Shipton, C., Chaggar, S., Howells, R., Kennedy, M., Vernon, G., Wright, S., Hinchliffe, E., Adams, J., Silverstone, A., Drake, R. 2005. Improving the Nutritional Value of Golden Rice through Increased Pro-vitamin A Content. *Nature Biotechnology*. 23(4): 482-487.

Pray, C., Huang, J., Hu, R., Rozelle, S. 2002. Five Years of Bt Cotton in China - the Benefits Continue. *The Plant Journal*. 31(4): 423-430.

Pray, C., Ma, D., Huang, J., Qiao, F. 2001. Impact of Bt Cotton in China. *World Development*. 29(5): 1-34

Qaim, M. 2003. Bt Cotton in India: Field Trial Results and Economic Projections. *World Development*. 31(12): 2115-2127.

Qaim, M., Krattiger, A., Von Braun, J. 2000. *Agricultural Biotechnology in Developing Countries: Towards Optimizing the Benefits for the Poor*. Kluwer Academic Publishers, Boston. ISBN 0-7923-7230-1. 448 pages.

Qaim, M. 1999. Assessing the Impact of Banana Biotechnology in Kenya. *ISAAA Briefs*. Brief 10: 1-38.

Qaim, M. 1999. The Economic Effects of Genetically Modified Orphan Commodities: Projections for Sweet Potato in Kenya. *ISAAA Briefs*. Brief 13: 1-47.

Raney, T. 2006. Economic Impact of Transgenic Crops in Developing Countries. *Current Opinion in Biotechnology*. 17: 174-178.

Rocheford, T., Wong, J., Egesel, C., Lambert, R. 2002. Enhancement of Vitamin E Levels in Corn Fighting Iron Deficiency Anemia with Iron-Rich Rice. Supplement to *Journal of the American College of Nutrition*. 21(3S): 191S-198S.

Schimmelphennig, D., Rosen, S., Pray, C. 2005. Genetically Engineered Corn in South Africa. Implications for Food Security in the Region. Food Security Assessment. Economic Research Service. USDA. GFA-16: 35-44.

Serageldin, I. 1999. From Green Revolution to Gene Revolution. Economic Perspectives. 4 (4): 17-19.

Sevenier, R., van der Meer, I., Bino, R., Koops, A. 2002. Increased Production of Nutriments by Genetically Engineered Crops. Supplement to Journal of the American College of Nutrition. 21(3S): 199S-204S.

Swaminathan, M.S. 2000. Genetic Resources: Biotechnology and World Food Supply: Foreword. Genome. 42(4): 554-556.

Traxler, G., Godoy-Avila, S., Falck-Zepeda, J, Espinoza-Arellano, J. 2001. Transgenic Cotton in Mexico: Economic and Environmental Impacts. 7(1-2): 57-62.

Thirtle, C. , Beyers, L. , Ismael, Y. , Piesse, J. 2003. Can Gm-Technologies Help The Poor? The Impact of Bt Cotton in Makhathini Flats, Kwazulu-Natal. World Development. 31(4): 717-732.

Thomas, S., Burke, D., Gale, M., Lipton, M., Weale, A. 2003. The Use of Genetically Modified Crops in Developing Countries. Nuffield Council on Bioethics: 1-122.

Thomson, J. 2004. The Status of Plant Biotechnology in Africa. AgBioForum. 7(1-2): 9-12.

Thro, A. M., Roca, W., Iglesias, C., Henry, G., Ng, S. 1998. Contributions of In-vitro Biology to Cassava Improvement. African Crop Science Journal. 6(3): 303-315.

Wambugu, F. 1999. Why Africa Needs Agricultural Biotech. Nature. 400: 15-16.

Zimmermann, R., Qaim, M. 2002. Projecting the Benefits of Golden Rice in the Philippines. ZEP Discussion Papers on Development Policies No. 51, Center for Development Research, Bonn: 33.