

"Facts About Biotechnology" Handout

IFIC Foundation *Food Biotechnology: A Communicator's Guide to Improving Understanding*, 3rd Edition
April 2013

References:

1. U.S. Food and Drug Administration (FDA). Genetically engineered plants for food and feed. 2012; <http://www.fda.gov/food/foodscienceresearch/biotechnology/>.
2. American Medical Association (AMA). Bioengineered (genetically engineered) crops and foods. 2012; <https://ssl3.ama-assn.org/apps/ecom/PolicyFinderForm.pl?site=www.ama-assn.org&uri=%2fresources%2fdoc%2fPolicyFinder%2fpolicyfiles%2fHnE%2fH-480.958.HTM>.
3. Center for Science in the Public Interest (CSPI). *Straight talk on genetically engineered foods*. 2012; <http://www.cspinet.org>.
4. U.S. Environmental Protection Agency (EPA). United States Regulatory Agencies Unified Biotechnology Website. 2012; <http://usbiotechreg.epa.gov/usbiotechreg/>.
5. Massengale RD. Biotechnology: Going beyond GMOs. *Food Technology*. November 2010:30-35.
6. U.S. Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS). Questions and answers: Okanagan Specialty Fruits' non-browning apple (Events GD743 and GS784). 2012; http://www.aphis.usda.gov/publications/biotechnology/2012/faq_okanagan_apple.pdf.
7. World Health Organization (WHO). Modern Biotechnology, Human Health, and Development: An evidence-based study. 2005; http://www.who.int/foodsafety/biotech/who_study/en/index.html.
8. Brookes G, Barfoot P. Global impact of biotech crops: Environmental effects, 1996–2010. *GM Crops and Food: Biotechnology in Agriculture and the Food Chain*. 2012;3(2):129-137.
9. Council for Agricultural Science and Technology (CAST). U.S. soybean production sustainability: A comparative analysis. *Special Publication 30*. April 2009.
10. Conservation Technology Information Center (CTIC). Facilitating conservation farming practices and enhancing environmental sustainability with agricultural biotechnology. CTIC, West Lafayette, IN: 2010. <http://www.ctic.purdue.edu/media/pdf/BioTechFINAL%20COPY%20SEND%20TO%20PRINTER.pdf>.
11. Fawcett R, Towery D. Conservation tillage and plant biotechnology: How new technologies can improve the environment by reducing the need to plow. CTIC, West Lafayette, IN: 2002. <http://croplife.intraspin.com/Biotech/papers/35%20Fawcett.pdf>.
12. Osteen C, Gottlieb J, Vasavada U, (eds.). *Agricultural resources and environmental indicators, 2012*. EIB-98, USDA, Economic Research Service (ERS), August 2012.
13. USDA, ERS. Pesticide use & markets. November 2012; <http://www.ers.usda.gov/topics/farm-practices-management/chemical-inputs/pesticide-use-markets.aspx>.
14. Brookes G, Barfoot P. The income and production effects of biotech crops globally 1996–2010. *GM Crops and Food: Biotechnology in Agriculture and the Food Chain*. 2012;3(4):265-272.
15. Hutchison WD, Burkness EC, Mitchell PD, et al. Areawide suppression of European corn borer with Bt maize reaps savings to non-Bt maize growers. *Science* 2010;330(6001):222-225.
16. National Academy of Sciences (NAS). Impact of genetically engineered crops on farm sustainability in the United States. The National Academies Press, Washington, DC: 2010. http://dels.nas.edu/resources/static-assets/materials-based-on-reports/reports-in-brief/genetically_engineered_crops_report_brief_final.pdf.

17. Pray CE, Huang J., Hu R., Rozelle S. Five years of Bt cotton in China - the benefits continue. *The Plant Journal*. 2002;31(4):423-430.
18. Bill & Melinda Gates Foundation. Why the Foundation funds research in crop biotechnology. 2012; <http://www.gatesfoundation.org/agriculturaldevelopment/Pages/why-we-fund-research-in-crop-biotechnology.aspx>.
19. Park JR, McFarlane I, Phipps RH, Ceddia G. The role of transgenic crops in sustainable development. *Plant Biotechnology Journal*. 2011;9:2-21.
20. FDA. Animal cloning. 2010; <http://www.fda.gov/AnimalVeterinary/SafetyHealth/AnimalCloning/default.htm>.
21. FDA. Bovine Somatotropin. 2011; <http://www.fda.gov/AnimalVeterinary/SafetyHealth/ProductSafetyInformation/ucm055435.htm>.
22. FDA. Genetically engineered animals. 2012; <http://www.fda.gov/AnimalVeterinary/DevelopmentApprovalProcess/GeneticEngineering/GeneticallyEngineeredAnimals/default.htm>.
23. USDA, APHIS. Biotechnology. 2012; <http://www.aphis.usda.gov/biotechnology/>.
24. Newell-McGloughlin M. Nutritionally improved agricultural crops. *Plant Physiology*. 2008;147:939–953.
25. Scorza R, Ravelonandro M. Control of plum pox virus through the use of genetically modified plants. *OEPP/EPPO Bulletin*. 2006;36:337–340.
26. Newell-McGloughlin M. Transgenic Crops, Next Generation. In: Meyers RA, ed. *Encyclopedia of Sustainability Science and Technology*. Vol 15. New York: Springer Science + Business Media, LLC; 2012:10732-10765.
27. FDA. Consultation Procedures under FDA's 1992 Statement of Policy - Foods Derived from New Plant Varieties. 1996; Revised 1997; <http://www.fda.gov/Food/GuidanceRegulation/GuidanceDocumentsRegulatoryInformation/Biotechnology/ucm096126.htm>.
28. James C. Global status of commercialized biotech/GM crops. ISAAA Brief No. 44. Ithaca, NY: ISAAA; 2012.
29. Food and Agriculture Organization (FAO) of the United Nations. FAO statement on biotechnology. 2012; <http://www.fao.org/biotech/fao-statement-on-biotechnology/en/>.
30. Institute of Food Technologists (IFT) Foundation. Antimicrobial Resistance: Implications for the Food System. *Comprehensive Reviews in Food Science and Food Safety*. 2006;5(3):71-137.
31. FDA. FDA's strategy on antimicrobial resistance - questions and answers. 2012; <http://www.fda.gov/AnimalVeterinary/GuidanceComplianceEnforcement/GuidanceforIndustry/ucm216939.htm>.
32. Edgerton MD. Increasing crop productivity to meet global needs for feed, food, and fuel. *Plant Physiology*. 2009;149(1):7-13.
33. FAO of the United Nations. Feed the world, eradicating hunger. Paper presented at: World Summit on Food Security. 2009.
34. Godfray HCJ, Beddington JR, Crute IR, et al. Food security: The challenge of feeding 9 billion people. *Science*. 2010;327(5967):812-818.