

# TECHNICAL PUBLICATIONS ON THE SAFETY OF BIOTECHNOLOGY AND ITS PRODUCTS

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Information on the regulations and regulatory/government reports and decisions are not included in this document.

## FOOD SAFETY

### Compositional Equivalence

2001. GM Food Crops and Application of Substantial Equivalence in the European Union. IN: The Commission of the Dutch Foundation 'Consument and Biotechnologie', June 2001: 1-67.

Aeschbacher, K., Messikommer, R., Meile, L., Wenk, C. 2005. Bt176 Corn in Poultry Nutrition: Physiological Characteristics and Fate of Recombinant Plant DNA in Chickens. *Poultry Science*. 84(3): 385 - 394.

Autran, J., Benetrix, F., Bloc, D., Burghart, P., Chaurant, M., Combe, N., Melcion, J. 2003. Composition and Technological Value of Genetically Modified and Conventional Maize - *Zea Mays L.* - Grains. *Sciences des Aliments*. 23: 223-247.

Baker, J., Hawkins, N., Ward, J., Lovegrove, A., Napier, J., Shewry, P., Beale, M. 2006. A Metabolomic Study of Substantial Equivalence of Field-grown Genetically Modified Wheat. *Plant Biotechnology Journal*. 4: 381-392.

Baudo, M., Lyons, R., Powers, S., Pastori, G., Edwards, K., Holdsworth, M., Shewry, P. 2006. Transgenesis Has Less Impact on the Transcriptome of Wheat Grain than Conventional Breeding. *Plant Biotechnology Journal*. 4: 369-380.

Berberich, S., Ream, J., Jackson, T., Wood, R., Stipanovic, R., Harvey, P., Patzer, S., Fuchs, R. 1996. The Composition of Insect-Protected Cottonseed Is Equivalent to that of Conventional Cottonseed. *Journal of Agricultural and Food Chemistry*. 44(1): 365-371.

Bertrand, J., Sudduth, T., Condon, A., Jenkins, T., Calhoun, M. 2005. Nutrient Content of Whole Cottonseed. *Journal of Dairy Science*. 88: 1470-1477.

Chassy, B. 2002. Food Safety Evaluation of Crops Produced through Biotechnology. Supplement to *Journal of the American College of Nutrition*. 21(3S): 166S-173S.

Cockburn, A. 2002. Assuring the Safety of Genetically Modified (GM) Foods - The Importance of An Holistic, Integrative Approach. *Journal of Biotechnology*. 98: 79-106.

Emlay, D. 1994. Compositional Analysis: The Key Component for the Safety Assessment of Flavr Savr™ Tomatoes or Why Would Anyone Want to Feed A Whole Food to Rats? Proceedings of the Third International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms. D. Jones, editor. November 13-16, 1994, Monterey, CA. Publisher: The University of California - Oakland: 209-211.

Engel, K., Gerstner, G., Rob. A. 1998. Investigation of Glycoalkaloids in Potatoes as an Example for the Principle of Substantial Equivalence. Proceedings of the International Symposium on Novel Foods Regulation In The European Union - Integrity of the Process of Safety Evaluation - November 18 - 20, 1997, Berlin, Germany. Publisher: Federal Institute of Consumer Health Protection And Veterinarian Medicine: 197-209.

- George, C., Ridley, W., Obert, J., Nemeth, M., Breeze, M., Astwood, J. 2004. Composition of Grain and Forage from Corn Rootworm-Protected Corn Event MON 863 Is Equivalent to that of Conventional Corn - *Zea Mays* L. *Journal of Agricultural and Food Chemistry*. 52: 4149-4158.
- Goda, Y., Akiyama, H., Suiyama, E., Takahashi, S., Kinjo, J., Nohara, T., Toyoda, M. 2002. Comparison of Soyasaponin and Isoflavone Contents Between Genetically Modified GM - and non-GM Soybeans. *Journal of the Food Hygienic Society of Japan*. 43(6): 339-347.
- Hamilton, K., Pyla, P., Breeze, M., Olson, T., Li, M., Robinson, E., Gallagher, S., Sorbet, R., Chen, Y. 2004. Bollgard II Cotton: Compositional Analysis and Feeding Studies of Cottonseed from Insect-protected Cotton -*Gossypium hirsutum* L.- Producing the Cry1Ac and Cry2Ab2 Proteins. *Journal of Agricultural and Food Chemistry*. 52(23): 6969 - 6976.
- Herman, R., Storer, N., Phillips, A., Prochaska, L., Windels, P. 2007. Compositional Assessment of Event DAS-59122-7 Maize Using Substantial Equivalence. *Regulatory Toxicology and Pharmacology*. 47(1): 37-47.
- Hill, J., Nelson, E., Tilman, D., Polasky, S., Tiffany, D. 2006. Environmental, Economic and Energetic Costs and Benefits of Biodiesel and Ethanol Biofuels. *Proceedings of the National Academy of Sciences*. 103(30): 11206-11210.
- Jonnala, R., Dunford, N., Chenault, K. 2005. Nutritional Composition of Genetically Modified Peanut Varieties. *Journal of Food Science*. 70(4): S254-S256.
- Jung, H., Sheaffer, C. 2004. Influence of Bt Transgenes on Cell Wall Lignification and Digestibility of Maize Stover for Silage. *Crop Science*. 44: 1781-1789.
- Kuiper, H., Kleter, G., Noteborn, H., Kok, E. 2002. Substantial Equivalence - An Appropriate Paradigm for the Safety Assessment of Genetically Modified Foods. *Toxicology*. 181-182: 427-431.
- Kumar, R., Singhal, K. 2004. Chemical Composition and Nutritional Evaluation of Transgenic Cottonseed for Ruminants. *Indian Journal of Animal Sciences*. 74(8): 868 - 871.
- Lavrik, P., Bartnicki, D., Feldman, J., Hammond, B., Keck, P., Love, S., Naylor, M., Rogan, G., Sims, S., Fuchs, R. 1995. Safety Assessment of Potatoes Resistant to Colorado Potato Beetle. *Genetically Modified Foods, Safety Issues*. Chapter 13: 148-157.
- List, G. R., Orthoefer, F., Taylor, N., Nelsen, T., Abidi, S. L. 1999. Characterization of Phospholipids from Glyphosate-tolerant Soybeans. *Journal of the American Oil Chemists' Society*. 76(1): 57-60.
- Love, S. L. 2000. When Does Similar Mean the Same: A Case for Relaxing Standards of Substantial Equivalence in Genetically Modified Food Crops. *HortScience*. 35(5): 803-806.

- McCann, M., Trujillo, W., Riordan, S., Sorbet, R., Bogdanova, N., Sidhu, R. 2007. Comparison of the Forage and Grain Composition from Insect-Protected and Glyphosate-Tolerant MON 88017 Corn to Conventional Corn (*Zea mays* L.). *Journal of Agricultural and Food Chemistry*. 55(10): 4034-4042.
- Millstone, E., Brunner, E., Mayer, S. 1999. Beyond 'Substantial Equivalence'. *Nature*. 401(6753): 525-526.
- Momma, K., Hashimoto, W., Ozawa, S., Kawai, S., Katsube, T., Takaiwa, F., Kito, M., Utsumi, S., Murata, K. 1999. Quality and Safety Evaluation of Genetically Engineered Rice With Soybean Glycinin: Analyses of the Grain Composition and Digestibility of Glycinin in Transgenic Rice. *Bioscience, Biotechnology, and Biochemistry*. 63(2): 314-318.
- Nida, D., Patzer, S., Harvey, P., Stipanovic, R., Wood, R., Fuchs, R. 1996. Glyphosate-tolerant Cotton: The Composition of the Cottonseed Is Equivalent to that of Conventional Cottonseed. *Journal of Agricultural and Food Chemistry*. 44(7): 1967-1974.
- Oberdoerfer, R., Shillito, R., de Beuckeleer, M., Mitten, D. 2005. Rice (*oryza Sativa* L.) Containing the Bar Gene is Compositionally Equivalent to the Nontransgenic Counterpart. *Journal of Agricultural and Food Chemistry*. 53(5): 1457 – 1465.
- Obert, J., Ridley, W., Schneider, R., Riordan, S., Nemeth, M., Tujillo, W., Breeze, M., Sorbet, R., Astwood, J. 2004. The Composition of Grain and Forage from Glyphosate-tolerant Wheat MON 71800 Is Equivalent to that of Conventional Wheat - *Triticum aestivum* L. *Journal of Agricultural and Food Chemistry*. 52(5): 1375-1384.
- Padgett, S., Re, D., Barry, G., Eichholtz, D., Delannay, X., Fuchs, R., Kishore, G., Fraley, R. 1996. New Weed Control Opportunities: Development of Soybeans With a Roundup Ready® Gene. IN: *Herbicide-Resistant Crops: Agriculture, Environmental, Economic, Regulatory and Technical Aspects*. Chapter 4: 53-84.
- Padgett, S., Taylor, N., Nida, D., Bailey, M., MacDonald, J., Holden, L., Fuchs, R. 1996. The Composition of Glyphosate-tolerant Soybean Seeds Is Equivalent to that of Conventional Soybeans. *Journal of Nutrition*. 126 (3): 702-716.
- Petit, L., Barange, F., Bertheau, Y., Brunschwig, P., Diolez, A., Duhem, K., Duplan, M., Fach, P., Kobilinsky, A., Lamart, S., Schattner, A., Martin, P. 2005. Detection of Genetically Modified Corn (Bt176) in Spiked Cow Blood Samples by Polymerase Chain Reaction and Immunoassay Methods. *Journal of AOAC International*. 88(2): 654-664.
- Ridley, W., Hartnell, G., Hammond, B. 2005. Role of Composition and Animal Feeding Studies in the Safety Assessment of Biotech Crops. *ACS Symposium Series 892*: 28-39.
- Ridley, W., Sidhu, R., Astwood, J., Fuchs, R. 2004. Role of Compositional Analyses in the Evaluation of Substantial Equivalence for Biotechnology Crops. *Agricultural Biotechnology - Challenges and Prospects*. ACS Symposium Series 866. M. Bhalgat, W. Ridley, A. Felsot, J. Seiber, Editors. Chapter 11: 165-175.

Ridley, W., Sidhu, R., Pyla, P., Nemeth, M., Breeze, M., Astwood, J. 2002. Comparison of the Nutritional Profile of Glyphosate-tolerant Corn Event NK603 with that of Conventional Corn (*zea Mays L.*). *Journal of Agricultural and Food Chemistry*. 50(25): 7235-7243.

Rogan, G. J., Bookout, J. T., Duncan, D. R., Fuchs, R. L., Lavrik, P. B., Love, S. L., Mueth, M., Olson, T., Owens, E.D., Raymond, P.J., Zalewski, J. 2000. Compositional Analysis of Tubers from Insect and Virus Resistant Potato Plants. *Journal of Agricultural Food Chemistry*. 48: 5936-5945.

Rossi, F., Moschini, M., Florentini, L., Masoero, F., Piva, G. 2003. Analytical Composition and Rumen Degradability of Isogenic and Transgenic Corn Varieties. *Journal of the Science of Food and Agriculture*. 83(13): 1337-1341.

Sanders, P., Lee, T., Groth, M., Astwood, J., Fuchs, R. 1998. Safety Assessment of Insect-Protected Corn. IN: *Biotechnology and Safety Assessment*. Chapter 10: 241-256.

Shewry, P., Baudo, M., Lovegrove, A., Powers, S., Napier, J., Ward, J., Baker, J., Beale, M. 2007. Are GM and Conventionally Bred Cereals Really Different. *Trends in Food Science and Technology*. 18: 201-209.

Sidhu, R.S., Hammond, B.G., Fuchs, R.L., Mutz, J., Holden, L., George, B., Olson, T. 2000. Glyphosate-tolerant Corn: The Composition and Feeding Value of Grain From Glyphosate-tolerant Corn Is Equivalent to that of Conventional Corn (*Zea mays L.*). *Journal of Agricultural and Food Chemistry*. 48(6): 2305-2312.

Taylor, N., Fuchs, R., MacDonald, J., Shariff, A., Padgett, S. 1999. Compositional Analysis of Glyphosate-tolerant Soybeans Treated With Glyphosate. *Journal of Agricultural and Food Chemistry*. 47(10): 4469-4473.

**Protein Safety**

2006. NASS USDA United States Crop Acreage Report 2006. USDA, Agricultural Statistics Board, NASS: 1-43.

Betz, F. S., Hammond, B. G., Fuchs, R. L. 2000. Safety and Advantages of Bacillus thuringiensis-Protected Plants to Control Insect Pests. Regulatory Toxicology and Pharmacology. 32: 156-173.

Bogdanov, S. 2006. Contaminants of Bee Products. Apidologie. 37: 1-18.

EPA. 1997. Name of Chemical(s): Bacillus thuringiensis subspecies kurstaki CryIA (c) Delta Endotoxin and the Genetic Material Necessary for its Production in Corn. EPA: Pesticide Fact Sheet: 1-22.

EPA. 1996a. EPA Fact Sheet for Bacillus thuringiensis subspecies kurstaki Strain EG 7841, September 1996 (Ecogen).

EPA. 1996b. EPA Fact Sheet for Bacillus thuringiensis subspecies kurstaki Cry 1A (b) Delta Endotoxin and its Controlling Sequences as Expressed in Corn. December 20, 1996 (Monsanto).

EPA. 1995a. EPA Fact Sheet for Bacillus thuringiensis subspecies kurstaki Cry 1A(b) Delta Endotoxin and Its Controlling Sequences in Corn, March 21, 1995 (Ciba Seeds).

EPA. 1995b. EPA Fact Sheet for Bacillus thuringiensis subspecies tenebrionis Cry 3A Delta Endotoxin and its Controlling Sequences in Potato, May 5, 1995 (Monsanto).

EPA. 1995c. EPA Fact Sheet for Bacillus thuringiensis subspecies kurstaki Cry 1Ac Delta Endotoxin and Its Controlling Sequences as Expressed in Cotton. October 1995 (Monsanto).

Federal Register. 1996. Bacillus thuringiensis Cry 1A (b) Delta Endotoxin and the Genetic Material Necessary for Its Production in all Plants; Exemption from Requirement of a Tolerance; Final Rule; 61 FR40340. August 2, 1996.

Fares, N., El Sayed, A. 1998. Fine Structural Changes in the Ileum of Mice Fed on Delta-endotoxin-treated Potatoes and Transgenic Potatoes. Natural Toxins: 219-233.

Finn, R., Leimgruber, R., Boyle, D., Jennings, M., Kimack, N., Smith, C., Bishop, B., Fraizer, R., Magin, K., Fuchs, R., Reed, A. 1996. Purification and Biochemical Comparison of 1-aminocyclopropane-1-carboxylic acid deaminase Proteins Expressed in Delayed Ripening Tomato and Escherichia coli: Studies for a Food Safety Assessment. Journal of Agricultural and Food Chemistry. 44(1): 381-387.

Franck-Oberaspach, S., Keller, B. 1997. Consequences of Classical and Biotechnological Resistance Breeding for Food Toxicology and Allergenicity. Plant Breeding. 116(1): 1-17.

Fuchs, R., Heeren, R., Gustafson, M., Rogan, G., Bartnicki, D., Leimgruber, R., Finn, R., Hershman, A., Berberich, S. 1993. Purification and Characterization of Microbially

Expressed Neomycin Phosphotransferase II (NPTII) Protein and Its Equivalence to the Plant Expressed Protein. *Bio/Technology*. 11(13): 1537-1542.

Fuchs, R., Ream, J., Hammond, B., Naylor, M., Leimgruber, R., Berberich, S. 1993. Safety Assessment of the Neomycin Phosphotransferase II (NPTII) Protein. *Bio/Technology*. 11(13): 1543-1547.

Hammond, B., Fuchs, R. 1998. Safety Evaluation of Food Crops Developed through Biotechnology. IN: *Biotechnology and Safety Assessment*, 2<sup>nd</sup> edition: 61-79.

Hammond, B. 1997. Assessment of Potential Protein Toxicity. Report of the OECD Workshop on the Toxicological and Nutritional Testing of Novel Foods. Aussois, France, 5-8 March 1997. Organization for Economic Cooperation and Development, Paris: Page 26.

Harrison, L., Bailey, M., Naylor, M., Ream, J., Hammond, B., Nida, D., Burnette, B., Nickson, T., Mitsky, T., Taylor, M., Fuchs, R., Padgett, S. 1996. The Expressed Protein in Glyphosate-tolerant Soybean, 5-Enolpyruvylshikimate -3-Phosphate Synthase from *Agrobacterium* sp. Strain CP4, Is Rapidly Digested In Vitro and Is Not Toxic to Acutely Gavigated Mice. *Journal of Nutrition*. 126(3): 728-740.

Herouet, C., Esdaile, D., Mallyon, B., Debruyne, E., Schulz, A., Currier, T., Hendrickx, D., van der Klis, R., Rouan, D. 2005. Safety Evaluation of the Phosphinothricin Acetyltransferase Proteins Encoded by the Pat and Bar Sequences that Confer Tolerance to Glufosinate-ammonium Herbicide in Transgenic Plants. *Regulatory Toxicology and Pharmacology*. 41(2): 134 - 149.

Hofmann, C., Vanderbruggen, H., Hofte, H., Van Rie, J., Jansens, S., Van Mellaert, H. 1988. Specificity of *Bacillus thuringiensis* Delta - Endotoxins Is Correlated With the Presence of High-Affinity Binding Sites in the Brush Border Membrane of Target Insect Midguts. *Proceedings of the National Academy of Sciences of the United States of America*. 85(21): 7844-7848.

Hupfer, C., Mayer, J., Hotzel, H., Sachse, K., Engel, K. 1999. The Effect of Ensiling on PCR-Based Defection of Genetically Modified Bt Maize. *European Food Research and Technology*. 209(5): 301-304.

Lee, T., Zeng, J., Bailey, M., Sims, S., Sanders, P., Fuchs, R. 1995. Assessment of Equivalence of Insect Protected Corn and E. coli Produced B.T.K. HD-1 Protein. *Plant Physiology Supplement*. 108(795): 151.

MacIntosh, S., Stone, T., Sims, S., Hunst, P., Greenplate, J., Marrone, P., Perlak, F., Fischhoff, D., Fuchs, R. 1990. Specificity and Efficacy of Purified *Bacillus thuringiensis* Proteins Against Agronomically Important Insects. *Journal of Invertebrate Pathology*. 56(2): 258-266.

MacIntosh, S., McPherson, S., Perlak, F., Marrone, P., Fuchs, R. 1990. Purification and Characterization of *Bacillus thuringiensis* Var. tenebrionis Insecticidal Proteins Produced in E. coli. *Biochemical and Biophysical Research Communications*. 170(2): 665-672.

McPherson, S., Perlak, F., Fuchs, R., Marrone, P., Lavrik, P., Fischhoff, D. 1988. Characterization of the Coleopteran-Specific Protein Gene of Bacillus thuringiensis Var. tenebrionis. *Bio/Technology*. 6(1): 61-66.

Nida, D., Kolacz, K., Buehler, R., Deaton, W., Schuler, W., Armstrong, T., Taylor, M., Ebert, C., Rogan, G., Padgett, S., Fuchs, R. 1996. Glyphosate-tolerant Cotton: Genetic Characterization and Protein Expression. *Journal of Agricultural and Food Chemistry*. 44(7): 1960-1966.

Noteborn, H., Rienenmann-Ploum, M., van den Berg, J., Alink, G., Zolla, L., Kuiper, H. 1993. Food Safety of Transgenic Tomatoes Expressing the Insecticidal Crystal Protein CryIA(b) from Bacillus thuringiensis and the Marker Enzyme APH(3')II. *Med. Fac. Landouww. Univ. Gent*. 58 (4b): 1851-1858.

Padgett, S., Kolacz, K., Delannay, X., Re, D., LaVallee, B., Tinius, C. N., Rhodes, W., Otero, Y., Barry, G., Eichholtz, D., Peschke, V., Nida, D., Taylor, N., Kishore, G. 1995. Development, Identification, and Characterization of a Glyphosate-tolerant Soybean Line. *Crop Science*. 35: 1451-1461.

Reed, A., Kretzmer, K., Naylor, M., Finn, R., Magin, K., Hammond, B., Leimgruber, R., Rogers, S., Fuchs, R. 1996. Safety Assessment of 1-Aminocyclopropane-1-carboxylic Acid Deaminase Protein Expressed in Delayed Ripening Tomatoes. *Journal of Agricultural and Food Chemistry*. 44(1): 388-394.

Reed, A., Magin, K., Anderson, J., Austin, G., Rangwala, T., Linde, D., Love, J., Rogers, S., Fuchs, R. 1995. Delayed Ripening Tomato Plants Expressing the Enzyme 1-aminocyclopropane-1-carboxylic Acid Deaminase. 1. Molecular Characterization, Enzyme Expression, and Fruit Ripening Traits. *Journal of Agricultural and Food Chemistry*. 43(7): 1954-1962.

Romeis, J., Dutton, A., Bigler, F. 2004. Bacillus thuringiensis Toxin (Cry1Ab) has No Direct Effect on Larvae of the Green Lacewing *Chrysoperla Carnea* (stephens) (neuroptera: Chrysopidae). *Journal of Insect Physiology*. 50(2-3): 175-183.

Sacchi, V., Parenti, P., Hanozet, G., Giordana, B., Luthy, P., Wolfersberger, M. 1986. Bacillus thuringiensis Toxin Inhibits K<sup>+</sup> - Gradient-dependent Amino Acid Transport Across the Brush Border Membrane of *Pieris Brassicae* Midgut Cells. *FEBS (Federation of European Biochemical Societies) Letter*. 204 (2): 213-218.

Shimada, N., Miyamoto, K., Kanda, K., Murata, H. 2006. Binding of Cry1Ab Toxin, a Bacillus thuringiensis Insecticidal Toxin, to Proteins of the Bovine Intestinal Epithelial Cell: An In Vitro Study. *Applied Entomology and Zoology*. 41(2): 295-301.

### **Food Allergy**

2003. Consensus Document on Compositional Considerations for New Varieties of Bread Wheat - *Triticum aestivum* - Key Food and Feed Nutrients and Toxicants. OECD. Joint Meeting of the Chemicals Committee and The Working Party on Chemicals, Pesticides and Biotechnology. Series on the Safety of Novel Foods and Feeds, No. 7: 1-37.



- Alibhai, M., Astwood, J., Joyce, E., Pershing, J., Sampson, H., Purcell, J. 2000. Re-engineering Patatin (Sol t 1) Protein to Eliminate IgE Binding. *Journal of Allergy and Clinical Immunology*. 04: S79.
- Astwood, J., Silvanovich, A., Bannon, G. 2002. Vicilins - A Case Study in Allergen Pedigrees. *Journal Allergy Clinical Immunology*. 110: 26-27.
- Astwood, J., Fuchs, R.; Editors: Baker, D. R., Umetsu, N. K. 2001. Status and Safety of Biotech Crops. *ACS Symposium Series 774: Agrochemical Discovery Insect, Weed, and Fungal Control*. Chapter 14: 152-164.
- Astwood, J. 2001. Preventing Food Allergy - The Impact of Biotechnology. *Journal of Animal Science*. 79 (Supplement 1): 55.
- Astwood, J., Nair, R., Lamb, I., Holleschak, G., Leach, J., Goodman, R., Hammond, B., Fuchs, R., English, L., Rangwala, S., Sampson, H. Yu, S., Choi, D., and Li, A. 2001. Neurobiology and Allergenicity of Plant Anti-Fungal Proteins. *The Toxicologist*. 60(1).
- Astwood, J., Tran, K., Liang, J., Goodman, R., Sampson, H. 2000. Digestibility and Allergenicity of Gamma-thionin from Wheat Flour. *Journal of Allergy and Clinical Immunology*. 104: S138.
- Astwood, J., Goodman, R. 2000. The Relevance of Protein Stability to Allergy Assessment. *Toxicology Letters*. 116: 6.
- Astwood, J., Alibhai, M., Lee, T., Fuchs, R., Sampson, H. 2000. Identification and Characterization of IgE Binding Epitopes of Patatin, A Major Food Allergen of Potato. *Journal of Allergy and Clinical Immunology*. 104: S184.
- Astwood, J., Leach, J., Ream, J., Fuchs, R. 1996. Allergenic Potential of Foods from Genetically Engineered Plants. *The Toxicology Forum: 1996 Annual European Meeting, March 25-28, 1996, Green College Oxford, UK*. Publisher: Toxicology Forum, Inc., Washington, DC: 136-170.
- Astwood, J., Fuchs, R. 1996. Allergenicity Assessment of Foods Derived from Genetically Modified Plants. *Food Technology*. 50 (2): 83-88.
- Astwood, J., Fuchs, R. 1996. Allergenicity of Foods Derived from Transgenic Plants. *Highlights in Food Allergy: Proceedings of the 6th International Symposium on Immunological and Clinical Problems of Food Allergy, Lugano, September 1995*. 32: 105-120.
- Astwood, J., Fuchs, R. 1996. Preventing Food Allergy- Emerging Technologies. *Trends In Food Science & Technology*. 7(7): 219-226.
- Astwood, J., Fuchs, R., Lavrik, P. 1996. Food Biotechnology and Genetic Engineering. *Food Allergy: Adverse Reactions to Foods and Food Additives*. Chapter 4: 65-92.
- Astwood, J., Fuchs, R. 1996. Food Allergens Are Stable to Digestion in a Simple Model of the Gastrointestinal Tract. *The Journal of Allergy and Clinical Immunology*. 97 (1) Part 3: 241.

- Astwood, J., Leach, J., Fuchs, R. 1996. Stability of Food Allergens to Digestion In Vitro. *Nature Biotechnology*. 14 (10): 1269-1273.
- Bannon, G., Goodman, R., Leach, J., Rice, E., Fuchs, R., Astwood, J. 2002. Digestive Stability in the Context of Assessing the Potential Allergenicity of Food Proteins. *Comments on Toxicology*. 8: 271 - 285.
- Bannon, G., Fu, T., Kimber, I., Hinton, D. 2003. Protein Digestibility and Relevance to Allergenicity. *Environmental Health Perspectives*. 111(8): 1122-1124.
- Batista, R., Nunes, B., Carmo, M., Cardoso, C., Sao Jose, H., de Almeida, A., Manique, A., Bento, L., Ricardo, C., Oliveira, M. 2005. Lack of Detectable Allergenicity of Transgenic Maize and Soya Samples. *Journal of Allergy and Clinical Immunology*. 116: 403-410.
- Bernstein, J., Bernstein, I., Bucchini, L., Goldman, L., Hamilton, R., Lehrer, S., Rubin, C., Sampson, H. 2003. Clinical and Laboratory Investigation of Allergy to Genetically Modified Foods. *Environmental Health Perspectives*. 111(8): 1114 - 1121.
- Bhalla, P. L., Swoboda, I., Singh, M. B. 1999. Antisense-Mediated Silencing of a Gene Encoding a Major Ryegrass Pollen Allergen. *Proceedings of the National Academy of Sciences*. 96: 11676-11680.
- Buchanan, B. 2001. Genetic Engineering and the Allergy Issue. *Plant Physiology*. 126: 5-7.
- Burks, A., Fuchs, R. 1995. Assessment of the Endogenous Allergens in Glyphosate-tolerant and Commercial Soybean Varieties. *Journal of Allergy and Clinical Immunology*. 96(6,1): 1008-1010.
- Chang, H., Bae, Y., Lim, S., Jeong, T., Kim, H., Chung, S., Kim, D., Nam, D. 2001. Allergenicity Test of Genetically Modified Soybean in Sprague-dawley Rats. *Archives of Pharmacal Research*. 24(3): 256 – 261.
- Chang, H., Kim, N.H., Park, M.J., Lim, S., Kim, S.C., Kin, J.Y., Kim, J.A., Oh, H.Y., Lee, C.H., Huh, K., Jeong, T., Nam, D. 2003. The 5-enolpyruvylshikimate-3-phosphate Synthase of Glyphosate-tolerant Soybean Expressed in *Escherichia coli* Shows No Severe Allergenicity. *Molecules and Cells*. 15(1): 20-26.
- Chassy, B. 2002. Food Safety Evaluation of Crops Produced through Biotechnology. Supplement to *Journal of the American College of Nutrition*. 21(3S): 166S-173S.
- Dearman, R.J., Kimber, I. 2001(b). Cytokine Fingerprinting and Hazard Assessment of Chemical Respiratory Allergy. *Journal of Applied Toxicology*. 21: 153-163.
- del Val, G., Yee, B.C., Lozano, R.M., Buchanan, B.B., Ermel, R., Lee, Y., Frick, O. 1999. Thioredoxin Treatment Increases Digestibility and Lowers Allergenicity of Milk. *Journal of Allergy and Clinical Immunology*. 103(4): 690-697.

Fuchs, R. L.; Editors: Eisenbrand, G., Aulepp, H., Dayan, A. D., Elias, P. S., Grunow, W., Ring, J., Schlatter, J., Köhl, W., Baum, M. 1996. Assessment of the Allergenic Potential of Foods Derived from Genetically Engineered Plants: Glyphosate Tolerant Soybean as a Case Study. Food Allergies and Intolerances Symposium. Publisher: VCH Verlagsgesellschaft mbH, Weinheim, Germany. Chapter 17: 212-221.

Fuchs, R. 1998. Principles and Strategies for the Assessment of the Allergenic Potential of Foods Derived from Genetically Modified Plants. Proceedings of the International Symposium on Novel Foods Regulation in the European Union - Integrity of the Process of Safety Evaluation - November 18-20, 1997, Berlin, Germany. Publisher: Federal Institute of Consumer Health Protection and Veterinary Medicine: 287-292.

Fuchs, R., Goodman, R. 1998. Products from Plant Biotechnology. Allergy. 53 Issue: (Supplement 46): 93-97.

Germolec, D., Kimber, I., Goldman, L., Selgrade, M. 2003. Key Issues for the Assessment of the Allergenic Potential of Genetically Modified Foods - Breakout Group Reports. Environmental Health Perspectives. 111(8): 1131-1139.

Gendel, S. 1998. Sequence Databases for Assessing the Potential Allergenicity of Proteins Used in Transgenic Foods. Advances in Food Nutrition Research. 42: 63-92.

Gendel, S. 1998. The Use of Amino Acid Sequence Alignments to Assess Potential Allergenicity of Proteins Used in Genetically Modified Foods. Advances in Food Nutrition Research. 42: 45-62.

Gizzarelli, F., Corinti, S., Barletta, B., Iacovacci, P., Brunetto, B., Butteroni, C., Afferni, C., Onori, R., Miraglia, M., Panzini, G., Di Felice, G., Ringhino, R. 2006. Evaluation of Allergenicity of Genetically Modified Soybean Protein Extract in a Murine Model of Oral Allergen-specific Sensitization. Clinical and Experimental Allergy. 36: 238-248.

Goodman, R., Hefle, S., Taylor, S., van Ree, R. 2005. Assessing Genetically Modified Crops to Minimize the Risk of Increased Food Allergy - A Review. International Archives of Allergy and Immunology. 137: 153-166.

Goodman, R.E., Leach, J.N., Reed, A.J., Lee, J., Harrah, D., Astwood, J. 2000. Relative Reaginic and Inflammatory Responses to Extracts of Modified and Non-Transgenic Cottonseeds in Brown Norway Rats Fed Conventional Cottonseed Meal Diets. Journal of Allergy and Clinical Immunology. 104: S138.

Goodman, R., Silvanovich, A., Hileman, R., Bannon, G., Rice, E., Astwood, J. 2002. Bioinformatic Methods for Identifying Known or Potential Allergens in the Safety Assessment of Genetically Modified Crops. Comments on Toxicology. 8: 251-269.

Hefle, S., Nordlee, J., Taylor, S. (1996). Allergenic Foods. Critical Reviews in Food Science and Nutrition. 36(S): S69-89.

Herman, R., Woolhiser, M., Ladics, G., Korjagin, V., Schafer, B., Storer, N., Green, S., Kan, L. 2007. Stability of a Set of Allergens and Non-allergens in Simulated Gastric Fluid. International Journal of Food Sciences and Nutrition. 58(2): 125-141.

- Herman, R., Storer, N., Gao, Y. 2006. Digestion Assays in Allergenicity Assessment of Transgenic Proteins. *Environmental Health Perspectives*. 114(8): 1154-1157.
- Hileman, R., Silvanovich, A., Goodman, R., Rice, E., Holleschak, G., Astwood, J., Hefle, S. 2002. Bioinformatic Methods for Allergenicity Assessment Using a Comprehensive Allergen Database. *International Archives Allergy Immunology*. 128: 280-291.
- Kimber, I., Kerkvliet, N., Taylor, S., Astwood, J., Sarlo, K., Dearman, R. 1999. Toxicology of Protein Allergenicity: Prediction and Characterization. *Toxicological Science*. 48 (2): 157-162.
- Kimber, I., Dearman, R. 2002. Approaches to Assessment of the Allergenic Potential of Novel Proteins in Food from Genetically Modified Crops. *Toxicological Sciences*. 68: 4-8.
- Kimber, I., Dearman, R., Penninks, A., Knippels, L., Buchanan, R., Hammerberg, B., Jackson, H., Helm, R. 2003. Assessment of Protein Allergenicity on the Basis of Immune Reactivity - Animal Models. *Environmental Health Perspectives*. 111(8): 1125-1130.
- Kimber, I., Betts, C., Dearman, R. 2003. Assessment of the Allergenic Potential of Proteins. *Toxicology Letters*. 140: 297 - 302.
- Lack, G., Chapman, M., Kalsheker, N., Kings, V., Robinson, C., Venables, K. 2002. Report on the Potential Allergenicity of Genetically Modified Organisms and Their Products. *Clinical and Experimental Allergy*. 32: 1131-1143.
- Ladics, G., Holsapple, M., Astwood, J., Kimber, I., Knippels, L., Helm, R., Dong, W. 2003. Workshop Overview - Approaches to the Assessment of the Allergenic Potential of Food from Genetically Modified Crops. *Toxicological Sciences*. 73: 8-16.
- Lehrer, S., Bannon, G. 2005. Risks of Allergic Reactions to Biotech Proteins in Foods - Perception And Reality. *Allergy*. 60(5): 559 - 564.
- Lehrer, S. 2000. Potential Health Risks of Genetically Modified Organisms: How Can Allergens be Assessed and Minimized? *Agricultural Biotechnology and the Poor: Proceedings of an International Conference, Washington, DC, USA, 21-22 October 1999*: 149-155.
- Lehrer, S. B., Reese, G.; Editor: Thomas, J. A. 1998. *Food Allergens: Implications for Biotechnology. Biotechnology and Safety Assessment. Edition 2. Chapter 6.* Publisher: Taylor & Francis: 127-150.
- Lorenz, A., Scheurer, S., Haustein, D., Vieths, S. 2001. Review - Recombinant Food Allergens. *Journal of Chromatography B* 756: 255-279.
- Matsuda, T., Nakase, M., Adachi, T., Nakamura, R., Tada, Y., Shimada, H., Takahashi, M., Fujimura, T.; Editors: Eisenbrand, G., Aulepp, H., Dayan, A.D., Elias, P.S., Grunow, W., Ring, J., Schlatter, J., Köhl, W., Baum, M. 1996. *The Input of Molecular Biology: Transgenic Foods: Allergenic Proteins in Rice: Strategies for Reduction and Evaluation.*

Food Allergies and Intolerances: Symposium. Chapter 12. Publisher: VCH, DFG, Weinheim: 161-169.

Matsuda, T. 1998. Application of Transgenic Techniques for Hypo - Allergenic Rice. Proceedings of the International Symposium on Novel Foods Regulation in the European Union - Integrity of the Process of Safety Evaluation - November 18-20, 1997, Berlin, Germany. Publisher: Federal Institute of Consumer Health Protection and Veterinary Medicine: 311-319.

Melo, V.M.M., Xavier-Filho, J., Lima, M.S., Prouvost-Danon, A. 1994. Allergenicity and Tolerance to Proteins from Brazil Nut (*Bertholletia excelsa* H.B.K.). Food Agricultural Immunology: 185.

Metcalfe, D., Astwood, J., Townsend, R., Sampson, H., Taylor, S., Fuchs, R. 1996. Assessment of the Allergenic Potential of Foods Derived from Genetically Engineered Crop Plants. Critical Reviews in Food Science and Nutrition. 36 (supplement): S165-S186.

Metcalfe, D. 2002. Allergenicity of Foods Produced by Genetic Modification. IN: Allergenicity in GM Foods. Chapter 5: 94-109.

Mills, E., Madsen, C., Shewry, P., Wichers, H. 2003. Food Allergens of Plant Origin - Their Molecular and Evolutionary Relationships. Trends in Food Science and Technology. 14: 145-156.

Nordlee, J., Talyor, S., Townsend, J., Thomas, L., Beach, L.; Editors: Eisenbrand, G., Aulepp, H., Dayan, A.D., Elias, P.S., Grunow, W., Ring, J., Schlatter, J., Köhl, W., Baum, M. 1996. Transgenic Soybeans Containing Brazil Nut 2S Storage Protein: Issues Regarding Allergenicity. Food Allergies and Intolerances: Symposium. Chapter 15. Publisher: VCH, DFG, Weinheim: 196-202.

Nordlee, J., Taylor, S., Townsend, J., Thomas, L., Bush, R. 1996. Identification of a Brazil-Nut Allergen in Transgenic Soybeans. New England Journal of Medicine. 334: 726-728.

Okunuki, H., Teshima, R., Shigeta, T., Sakushima, J., Akiyama, H., Goda, Y., Toyoda, M., Sawada, J. 2002. Increased Digestibility of Two Products in Genetically Modified Food - CP4-EPSPS and Cry1Ab - after Preheating. Journal Food Hygiene Society. 43(2): 68-73.

Pasteau, S., Bannon, G., Astwood, J., Goodman, R., Cockburn, A. 2003. Evaluation of Potential Allergenicity of Genetically Modified Plants Evaluation Du Potentiel Allergene Des Aliments Derives De Plantes Genetiquement Modifiees. Revue Francaise d'Allergologie et d'Immunologie Clinique. 43(1): 24 - 30.

Penninks, A.H., Knippels, L.M. 2001. Determination of Protein Allergenicity: Studies In Rats. Toxicology Letters. 120: 171-180.

Poulsen, L.K. 2004. Allergy Assessment of Foods or Ingredients Derived from Biotechnology, Gene-modified Organisms, or Novel Foods. Molecular Nutrition and Food Research. 48(6): 413 - 423.

- Ramón, D., Morán, M., Costa, J., López, F., Arriola, A., Martín, A.C., Cuellar, R., Camacho, R., Rodríguez, F. 2005. Documentos de Divulgación. Biotecnología en el Sector Alimentario (In Spanish). Genoma Espana Foundation, Madrid: 1-77.
- Silvanovich, A., Nemeth, M., Song, P., Herman, R., Tagliani, L., Bannon, G. 2006. The Value of Short Amino Acid Sequence Matches for Prediction of Protein Allergenicity. *Toxicological Sciences*. 90(1): 252-258.
- Stadler, M., Stadler, B. 2003. Allergenicity Prediction by Protein Sequence. *FASEB (Federation of American Societies for Experimental Biology) Journal*. 17(6): NIL34 - NIL50.
- Sten, E., Skov, P., Andersen, S., Torp, A., Olesen, A., Bindslev-Jensen, U., Poulsen, L., Bindsley-Jensen, C. 2004. A Comparative Study of the Allergenic Potency of Wild-Type and Glyphosate-tolerant Gene-Modified Soybean Cultivars. *APMIS - Acta Pathologica, Microbiologica, et Immunologica Scandinavica*. 112(1): 21-28.
- Taylor, S.L.; Editors: Jones, D.D. 1994. Evaluation of the Allergenicity of Foods Developed Through Biotechnology. *Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms*. Publisher: University of California, Oakland: 185-198.
- Taylor, S.L., Hefle, S.L. 2000. Will Genetically Modified Foods be Allergenic? *Journal of Allergy and Clinical Immunology*. 107: 765-771.
- Taylor, S. 2002. Protein Allergenicity Assessment of Foods Produced Through Agricultural Biotechnology. *Annual Review of Pharmacology and Toxicology*. 42: 99-112.
- Taylor, S. 2002. Assessment of the Allergenicity of Foods Produced through Agricultural Biotechnology. *American Chemical Society Symposium Series 829*: 205-216.
- Taylor, S., Hefle, S. 2002. Genetically Engineered Foods: Implications for Food Allergy. *Current Opinion in Allergy and Clinical Immunology*. 2(3): 249 - 252.
- Tsuji, H., Kimoto, M., Natori, Y. 2001. Allergens in Major Crops. *Nutrition Research*. 21: 925-934.
- Vieths, S. 1998. Allergenic Potential of Genetically Modified Plant Foods - How Reliable Is the Proposed Assessment Strategy? *Proceedings of the International Symposium on Novel Foods Regulation in the European Union - Integrity of the Process of Safety Evaluation - November 18-20, 1997, Berlin, Germany*. Publisher: Federal Institute of Consumer Health Protection and Veterinary Medicine: 295-309.

**Animal Safety Studies**

2000. The Effect of Genetically Modified Potatoes on Rat Small Intestine. *European Journal Of Pediatrics*. 159: 710-711.

Ash, J., Novak, C., Scheideler, S. 2003. The Fate of Genetically Modified Protein from Roundup Ready® Soybeans in Laying Hens. *Journal of Applied Poultry Research*. 12: 242-245.

Baker, B., Alexander, B., Mandel, J., Acquavella, J. 2005. Farm Family Exposure Study: Methods and Recruitment Practices for a Biomonitoring Study of Pesticide Exposure. *Journal of Exposure Analysis and Environmental Epidemiology*. 15(6): 491-499.

Coulston, F., Kolbye, A. 1990. Biotechnologies and Food: Assuring the Safety of Foods Produced by Genetic Modification. *Regulatory Toxicology and Pharmacology*. 12: S1-S196.

Duggan, P., Chambers, P., Heritage, J., Forbes, J. 2003. Fate of Genetically Modified Maize DNA in the Oral Cavity and Rumen of Sheep. *British Journal of Nutrition*. 89(2): 159 - 166.

Ewen, S.W.B., Pusztai, A. 1999. Effect of Diets Containing Genetically Modified Potatoes Expressing Galanthus nivalis Lectin on Rat Small Intestine. *Lancet*. 354 (9187): 1353-1354.

Hammond, B., Dudek, R., Lemen, J., Nemeth, M. 2004. Results of a 13 Week Safety Assurance Study With Rats Fed Grain from Glyphosate Tolerant Corn. *Food and Chemical Toxicology*. 42: 1003-1014.

Hammond, B., Mayhew, D., Robinson, K., Mast, R., Sander, W.. 2001. Section 3 - Single-Generation Rat Reproduction Study. *Safety Assessment Of Dha-Rich Microalgae From Schizochytrium Regulatory*. *Toxicology and Pharmacology*. 33: 356-362.

Hammond, B., Mayhew, D., Holson, J., Nemec, M., Mast, R., Sander, W. 2001. Section 2 - Developmental Toxicity Evaluation in Rats and Rabbits. *Safety Assessment of DHA-Rich Microalgae from Schizochytrium*. *Regulatory Toxicology and Pharmacology*. 33: 205-217.

Hammond, B., Mayhew, D., Naylor, M., Ruecker, F., Mast, R., Sander, W. 2001. Section 1 - Subchronic Rat Feeding Study. *Safety Assessment Of Dha-Rich Microalgae From Schizochytrium*. *Regulatory Toxicology and Pharmacology*. 33: 192-204.

Hammond, B., Rogers, S.G., Fuchs, R.L. 1994. Limitations of Whole Food Feeding Studies in Food Safety Assessment. *OECD Workshop on Food Provisional Proceedings of the Safety Evaluation - Oxford England, 12-15 September 1994*. (BIO/94.153) Publisher: OECD, Paris: 70-80.

Hammond, B., Rogers, S.G., Fuchs, R.L. 1996a. Limitations of Whole Food Feeding Studies in Food Safety Assessment. IN: Food Safety Evaluation. OECD Documents, Paris: 85-97.

Hammond, B., Vicini, J., Hartnell, G., Naylor, M., Knight, C., Robinson, E., Fuchs, R., Padgett, S. 1996. The Feeding Value of Soybeans Fed to Rats, Chickens, Catfish, and Dairy Cattle is Not Altered by Genetic Incorporation of Glyphosate Tolerance. *Journal of Nutrition*. 126(3): 717-727.

Momma, K., Hashimoto, W., Yoon, H., Ozawa, S., Fukuda, Y., Kawai, S., Takaiwa, F., Utsumi, S., Murata, K. 2000. Safety Assessment of Rice Genetically Modified With Soybean Glycinin by Feeding Studies on Rats. *Bioscience, Biotechnology, and Biochemistry*. 64(9): 1881-1886.

Noteborn, H.P.J.M., Bienenmann-Ploum, M.E., van den Berg, J.H.J., Alink, G.M., Zolla, L., Reynaerts, A., Pensa, M., Kuiper, H.A.; Editors: Engel, K., Takeoka, G.R., Teranishi, R. 1995. Safety Assessment of the Bacillus thuringiensis Insecticidal Crystal Protein CryIA(b) Expressed in Transgenic Tomatoes. *Genetically Modified Foods Safety Issues*, Chapter 12(605). Publisher: American Chemical Society, Washington DC: 134-147.

Taylor, M., Hartnell, G., Nemeth, M., George, B., Astwood, J. 2001. Comparison of Broiler Performance When Fed Diets Containing YieldGard® Corn, YieldGard® and Roundup Ready® Corn, Parental Lines, or Commercial Corn. *Poultry Science*. 80(1): 319.

Taylor, M.L., Hartnell, G.F., Nemeth, M., George, B., Astwood, J. 2001. Comparison of Broiler Performance When Fed Diets Containing Roundup Ready® Corn Event NK603 Parental Line, or Commercial Corn. *Poultry Science*. 80, Supplement 1(1323): 320.

Teshima, R., Akiyama, H., Okunuki, H., Sakushima, J., Goda, Y., Onodera, H., Sawada, J., Toyoda, M. 2000. Effect of GM and Non-GM Soybeans on the Immune System of BN Rats and B10A Mice. *Journal of the Food Hygienic Society of Japan*. 41(3): 188-193.



**Product Safety Assessment**

1990. Biotechnologies and Food: Assuring the Safety of Foods Produced by Genetic Modification. *Regulatory Toxicology and Pharmacology*. 12 (12): S1-S196.

1999. Review of Data on Possible Toxicity of GM Potatoes. The Royal Society: Prompting Excellence in Science: 1-5.

Ali, M., Luttrell, R., Young, S. 2006. Susceptibilities of *Helicoverpa Zea* and *Heliothis Virescens* (Lepidoptera - Noctuidae) Populations to Cry1ac Insecticidal Protein. *Journal of Economic Entomology*. 99(1): 164-175.

Astwood, J., Leach, J., Ream, J., Fuchs, R. 1996. Allergenic Potential of Foods from Genetically Engineered Plants. The Toxicology Forum: 1996 Annual European Meeting, March 25-28, 1996, Green College Oxford, UK. Publisher: Toxicology Forum, Inc., Washington, DC: 136-170.

Atherton, K. 2002. Safety Assessment of Genetically Modified Crops. *Toxicology*. 181-182: 421-426.

Aumaitre, A. 2004. Animals of Pest Protected -Bt- Plants and Herbicide Tolerant – (Glyphosate, Glufosinate) - Plants - Interpretation of Experimental Results Observed Worldwide on GM Plants. *Italian Journal Animal Science*. 3: 107-121.

Bajaj, S. 2001. Safety Assessment of Genetically Modified Insect Resistant Maize. Proceedings of 2001 National Seminar on Seed Science and Technology in the New Millenium - Vistas and Vision. Manasagangotri, Mysore, India, Aug 6-8, 2001: 205-207.

Brake, D., Evenson, D. 2004. A Generational Study of Glyphosate-tolerant Soybeans on Mouse Fetal, Postnatal, Pubertal and Adult Testicular Development. *Food and Chemical Toxicology*. 42(1): 29 - 36.

Bremmer, J. 1998. Hazard Evaluation of Glufosinate Tolerant Crops. Proceedings of the International Symposium on Novel Foods Regulation in the European Union - Integrity of the Process of Safety Evaluation - November 18-20, 1997, Berlin, Germany. Publisher: Federal Institute of Consumer Health Protection and Veterinary Medicine: 335-357.

Carpenter, J. 2001. Case Studies in Benefits and Risk of Agricultural Biotechnology: Roundup Ready® Soybeans and Bt Field Corn. National Center for Food and Agricultural Policy: 1-56.

Chen, Z., Gu, H., Li, Y., Su, Y., Wu, P., Jiang, Z., Ming, X., Tian, J., Pan, N., Qu, L. 2003. Safety Assessment for Genetically Modified Sweet Pepper and Tomato. *Toxicology*. 188: 297-307.

Chen, S., Huang, J., Zhou, B., Ni, W., Zhang, Z., Shen, X., Xu, Y., Gu, L., Li, S. 1996. A Safety Assessment of Feeding Rats and Quails With Cotton-Seed Meal from Bt-Transgenic Cotton Plants. *Jiangsu Journal of Agricultural Science*. 12: 17-22.

- Conner, A.J.; Editor: Jones, D.D. 1994. Biosafety Evaluation of Transgenic Asparagus. Proceedings of the Third International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, November 13-16, 1994, Monterey, CA. Publisher: The University of California - Oakland: 363-369.
- Crawley, M. 1992. The Comparative Ecology of Transgenic and Conventional Crops. Second International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11 - 14, 1992, Goslar, Germany: 43-52.
- Delannay, X., LaVallee, B., Proksch, R., Fuchs, R., Sims, S., Greenplate, J., Marrone, P., Dodson, R., Augustine, J., Layton, J., Fischhoff, D. 1989. Field Performance of Transgenic Tomato Plants Expressing the Bacillus thuringiensis Var. kurstaki Insect Control Protein. *Bio/Technology*. 7(12): 1265-1269.
- Emlay, D.; Editor: Kim, L. 1993. Regulatory Considerations: The Flavr Savr™ Tomato and the Regulatory Process. *Advanced Engineered Pesticides*, Chapter 24. Publisher: Marcel Dekker, New York: 409-419.
- Engel, K., Gerstner, G., Ross, A. 1998. Investigation of Glycoalkaloids in Potatoes as Example for the Principle of Substantial Equivalence. IN: *Novel Food Regulation in the EU-Integrity of the Process of Safety Evaluation*. Berlin: Federal Institute of Consumer Health Protection and Veterinary Medicine: 197-209.
- Fenton, B., Stanley, K., Fenton, S., Bolton-Smith, C. 1999. Health Risks of Genetically Modified Foods. *The Lancet*. 53: 1811.
- Fuchs, R., Berberich, S., Serdy, F. 1992. The Biosafety Aspects of Commercialization: Insect Resistant Cotton as a Case Study. Second International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11 - 14, 1992, Goslar, Germany: 171-178.
- Fuchs, R., Berberich, S., Serdy, F. 1993. Safety Evaluation of Genetically Engineered Plants and Plant Products: Insect-Resistant Cotton. IN: *Biotechnology and Safety Assessment*. Chapter 10: 199-212.
- Fuchs, R., Berberich, S., Serdy, F. 1992. Regulatory Considerations for Pesticidal Plants: Insect-Resistant Cotton as a Case Study. IN: *Advanced Engineered Pesticides*. Chapter 23: 393-407.
- Fuchs, R., Re, D., Rogers, S., Hammond, B., Padgett, S. 1996. Safety Evaluation of Glyphosate-tolerant Soybeans. OECD Document: Food Safety Evaluation. Publisher: OECD, Paris: 61-70.
- Fuchs, R., Serdy, F. 1990. Genetically Modified Plants: Evaluation of Field Test Biosafety Data. International Symposium: The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms - November 27-30, 1990 Kiawah Island, South Carolina: 25-29.
- Gasson, M. 1999. Genetically Modified Foods Face Rigorous Safety Evaluation. *Nature*. 402 (6759): 229.

- Greenplate, J. 1999. Quantification of Bacillus thuringiensis Insect Control Protein CryIAc Over Time in Bollgard® Cotton Fruit and Terminals. *Journal of Economic Entomology*. 92 (6): 1378-1383.
- Hammond, B., Lemen, J., Dudek, R., Ward, D., Jiang, C., Nemeth, M., Burns, J. 2006. Results of a 90-day Safety Assurance Study with Rats Fed Grain from Corn Rootworm-protected Corn. *Food and Chemical Toxicology*. 44(2): 147-160.
- Halcomb, J., Benedict, J., Cook, B., Ring, D. 1996. Survival and Growth of Bollworm and Tobacco Budworm on Non-transgenic and Transgenic Cotton Expressing a CryIA Insecticidal Protein (Lepidoptera: Noctuidae). *Environmental Entomology*. 25(2): 250-255.
- Hammond, B., Fuchs, R. 1998. Safety Evaluation for New Varieties of Food Crops Developed Through Biotechnology. *Biotechnology and Safety Assessment*. Chapter 3: 61-79.
- Hashimoto, W., Momma, K., Katsube, T., Ohkawa, Y., Ishige, T., Kito, M., Utsumi, S., Murata, K. 1999a. Safety Assessment of Genetically Engineered Potatoes With Designed Soybean Glycinin; Compositional Analyses of the Potato Tubers and Digestibility of the Newly Expressed Protein in Transgenic Potatoes. *Journal of the Science of Food and Agriculture*. 79: 1607-1612.
- Hashimoto, W., Momma, K., Katsube, T., Ohkawa, Y., Ishige, T., Kito, M., Utsumi, S., Murata, K. 1999b. Safety Assessment of Transgenic Potatoes With Soybean Glycinin by Feeding Studies in Rats. *Bioscience, Biotechnology and Biochemistry*. 63: 1942-1946.
- Hattan, D. 1994. Evaluation of Toxicological Studies on FLAVR SAVR™ Tomato. OECD Workshop on Food Provisional Proceedings of the Safety Evaluation - Oxford England, 12-15 September 1994. (BIO/94.153) Publisher: OECD, Paris: 45-47.
- Kaeppeler, H.F. 2000. Food Safety Assessment of Genetically Modified Crops. *Agronomy Journal*. 92(4): 793-796.
- Kaniewski, W., Lawson, C. 1998. Coat Protein and Replicase-mediated Resistance to Plant Viruses. In *Plant Virus Disease Control*. Hadidi, A., Khertarpal, R.K. and Kogenazawa, H. Eds., APS Press, St. Paul, MN. Pages 65-78.
- Kessler, D., Taylor, M., Maryanski, J., Flamm, E., Kahl, L. 1992. The Safety of Foods Developed by Biotechnology. *Science*. 256 (5065): 1747-1749.
- Kleter, G., Kuiper, H. 2003. Safety of Genetically Modified Crops for Food and Animal Feed. The BCPC International Congress - Crop Science and Technology 2003. 10-12 November: Pages 371-377.
- Konig, A., Cockburn, A., Crevel, R., Debruyne, E., Grafstroem, R., Hammerling, U., Kimber, I., Knudsen, I., Kuiper, H., Peijnenburg, A., Penninks, A., Poulsen, M., Schauzu, M., Wal, J. 2004. Assessment of the Safety of Foods Derived from Genetically Modified (GM) Crops. *Food and Chemical Toxicology*. 42: 1047-1088.

Kuiper, H.A., Noteborn, H.P.J.M. 1994. Food Safety Assessment of Transgenic Insect Resistant Bt Tomatoes. OECD Workshop On Food Provisional Proceedings of the Safety Evaluation - Oxford England, 12-15 September 1994. (BIO/94.153) Publisher: OECD, Paris: 38-44.

Lappe, M.A., Bailey, E.B., Childress, C., Setchel, K.D.R. 1999. Alterations in Clinically Important Phytoestrogens in Genetically Modified Herbicide-tolerant Soybeans. *Journal of Medicinal Food*. 1: 241-245.

Lau, L., Collins, R., Yiu, S., Xing, J., Yu, A. 2004. Detection and Characterization of Recombinant DNA in the Roundup Ready® Soybean Insert. *Food Control*. 15(6): 471-478.

Lavrik, P., Bartnicki, D., Feldman, J., Hammond, B., Keck, P., Love, S., Naylor, M., Rogan, G., Sims, S., Fuchs, R. 1995. Safety Assessment of Potatoes Resistant to Colorado Potato Beetle. *Genetically Modified Foods, Safety Issues*. Chapter 13: 148-157.

Matsuda, T. 1998. Application of Transgenic Techniques for Hypo - Allergenic Rice. Proceedings of the International Symposium on Novel Foods Regulation in the European Union - Integrity of the Process of Safety Evaluation - November 18-20, 1997, Berlin, Germany. Publisher: Federal Institute of Consumer Health Protection and Veterinary Medicine: 311-319.

Matsuda, T., Nakase, M., Adachi, T., Nakamura, R., Tada, Y., Shimada, H., Takahashi, M., Fujimura, T.; Editors: Eisenbrand, G., Aulepp, H., Dayan, A.D., Elias, P.S., Grunow, W., Ring, J., Schlatter, J., Köhl, W., Baum, M. 1996. The Input of Molecular Biology: Transgenic Foods: Allergenic Proteins in Rice: Strategies for Reduction and Evaluation. *Food Allergies and Intolerances: Symposium*. Chapter 12. Publisher: VCH, DFG, Weinheim: 161-169.

Mendelsohn, M., Kough, J., Vaituzis, Z., Matthews, K. 2003. Are Bt Crops Safe? *Nature Biotechnology*. 21(9): 1003-1009.

Moreno, O., Kang, M. 1999. Aflatoxins in Maize: The Problem and Genetic Solutions. *Plant Breeding*. 118: 1-16.

Nester, E., Thomashow, L., Metz, M., Gordon, M. 2002. 100 Years of Bacillus thuringiensis - A Critical Scientific Assessment. *American Academy of Microbiology*: 1-22.

Nielsen, C., Berdal, K., Holst-Jensen, A. 2004. Characterization of the 5' Integration Site and Development of an Event-specific Real-time PCR Assay for NK603 Maize from a Low Starting Copy Number. *European Food Research And Technology*. 219: 421-427.

Nordlee, J. A., Taylor, S. L., Townsend, J. A., Thomas, L. A., Townsend, R. 1994. Investigations of the Allergenicity of Brazil Nut 2S Seed Storage Protein in Transgenic Soybean. OECD Workshop on Food Provisional Proceedings of the Safety Evaluation - Oxford England, 12-15 September 1994. (BIO/94.153) Publisher: OECD, Paris: 121-125.

Noteborn, H., Bienenmann-Ploum, M., van den Berg, J.H.J., Alink, G.M., Zolla, L., Reynaerts, A., Pensa, M., Kuiper, H.A.; Editors: Engel, K., Takeoka, G.R., Teranishi, R. 1995. Safety Assessment of the Bacillus thuringiensis Insecticidal Crystal Protein CryIA(b) Expressed in Transgenic Tomatoes. Genetically Modified Foods Safety Issues. Chapter 12 (605). Publisher: American Chemical Society, Washington DC: 134-147.

Noteborn, H., Kuiper, H.; Editors: Jones, D. 1994. Safety Assessment Strategies for Genetically Modified Plant Products: A Case Study of Bacillus thuringiensis-Toxin Tomato. Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms. Publisher: University of California, Oakland: 199-207.

Perlak, F.J., Stone, T.B., Muskopf, Y.M., Petersen, L.J., Parker, G.B., McPherson, S.A., Wyman, J., Love, S., Reed, G., Biever, D., Fischhoff, D.A. 1993. Genetically Improved Potatoes: Protection from Damage by Colorado Potato Beetles. Plant Molecular Biology. 22: 313-321.

Peterson, R., Shama, L. 2005. A Comparative Risk Assessment of Genetically Engineered, Mutagenic, and Conventional Wheat Production Systems. Transgenic Research. 14: 859-875.

Quemada, H. 1996. Food Safety Evaluation of a Transgenic Squash. OECD Document: Food Safety Evaluation. Publisher: OECD, Paris: 71-79.

Rang, A., Linke, B., Jansen, B. 2005. Detection of RNA Variants Transcribed from the Transgene in Roundup Ready® Soybean. European Food Research and Technology. 220(3-4): 438 - 443.

Re, D., Cline, M., Hartnell, G. 1996. Glyphosate-tolerant Soybeans Found Safe for Use in Feed, Food. Feedstuffs: 1-2.

Redenbaugh, K., Berner, T., Emlay, D., Frankos, B., Hiatt, W., Houck, C., Kramer, M., Malyj, L., Martineau, B., Rachman, N., Rudenko, L., Sanders, R., Sheehy, R., and Wixtrom, R. 1993. Regulatory Issues for Commercialization of Tomatoes with an Antisense Polygalacturonase Gene. In Vitro Cell and Developmental Biology-Plant. 29P (1): 17-26.

Redenbaugh, K., Hiatt, W., Martineau, B., Emlay, D.; Editors: Engel, K., Takeoka, G. R., Teranishi, R. 1995. Determination of the Safety of Genetically Engineered Crops. Genetically Modified Foods Safety Issues. Chapter 7 (605). Publisher: American Chemical Society, Washington DC: 72-87.

Redenbaugh, K., Hiatt, W., Martineau, B., Lindemann, J., Emlay, D. 1994. Aminoglycoside 3'-Phosphotransferase II (APH(3')II): Review of Its Safety and Use in the Production of Genetically Engineered Plants. Food Biotechnology. 8 (2&3): 137-165.

Redenbaugh, K., Hiatt, W., Martineau, B., Kramer, M., Sheehy, R., Sanders, R., Houck, C., Emlay, D. 1992. Safety Assessment of Genetically Engineered Fruits and Vegetables--A Case Study of the FLAVR SAVR™ Tomato. Library of Congress: iii-xvii.

Rhee, G., Cho, D., Won, Y., Seok, J., Kim, S. S., Kwack, S. J., Lee, R. D., Chae, S., Kim, J. W., Lee, B. M., Park, K. L., Choi, K. S. 2005. Multigeneration Reproductive and Developmental Toxicity Study of bar Gene Inserted into Genetically Modified Potato on Rats. *Journal of Toxicology and Environmental Health, Part A*. 68: 2263-2276.

Ridley, W., Hartnell, G., Hammond, B. 2005. Role of Composition and Animal Feeding Studies in the Safety Assessment of Biotech Crops. *ACS Symposium Series 892*: 28-39.

Rogan, G., Dudin, Y., Lee, T., Magin, K., Astwood, J., Bhakta, N., Leach, J., Sanders, P., Fuchs, R. 1999. Immunodiagnostic Methods for Detection of 5-Enolpyruvylshikimate-3-Phosphate Synthase in Roundup Ready® Soybeans. *Food Control*. 10 (6): 407-414.

Rogers, S. G. 1998. Biotechnology and the Soybean. *American Journal of Clinical Nutrition* 68: Issue: Supplement 1330S-1332S.

Sims, S., Berberich, S., Nida, D., Segalini, L., Leach, J., Ebert, C., Fuchs, R. 1996. Crop Physiology and Metabolism: Analysis of Expressed Proteins in Fiber Fractions from Insect-Protected and Glyphosate-tolerant Cotton Varieties. *Crop Science*. Issue 5: 1212-1216.

Taylor, S. 2001. Safety Assessment of Genetically Modified Foods. *Journal of Nematology*. 33(4): 178 - 182.

Trewavas, A. 2000. Toxins and Genetically Modified Food. *The Lancet*. 355 (9207): 931.

Tuteljan, V., Kravchenko, L., Lashneva N., Avrenieva, L., Guseva, G., Sorokina, E., Chernysheva, O. 1999. [Medical and Biological Evaluation of Safety of Protein Concentrate from Genetically-Modified Soybeans. *Biochemical Studies*]. *Mediko-Biologicheskaja Otsenka Bezopasnosti Belkovogo Kontsentrata, Poluchennogo Iz Geneticheskii Modifitsirovannoi Soi. Biokhimicheskie Issledovaniia.. VOPROSY PITANIIA* 68(5-6): 9 - 12.

Verachtert, B., Reynaerts, A. 1992. New Information on Food Safety and Effects on Non-Target Organisms. *Second International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11 - 14, 1992, Goslar, Germany*: 197-200.

Windels, P., Taverniers, I., Depicker, A., Van Bockstaele, E., De Loose, M. 2001. Characterisation of the Roundup Ready® Soybean Insert. *European Food Research and Technology*. 213 (2): 107 - 112. Yang, X., Harrison, S., Riedel, R., Venkatesh, R., Loux, M. 2005. Glyphosate Behavior in a Transgenic Glyphosate- and Soybean Cyst Nematode-Resistant Soybean Variety. *Journal of New Seeds*. 7(1): 23-41.

## ANIMAL FEED PERFORMANCE/SAFETY

### General

Alexander, T., Reuter, T., Aulrich, K., Sharma, R., Okine, E., Dixon, W., McAllister, T. 2007. A Review of the Detection and Fate of Novel Plant Molecules Derived from Biotechnology in Livestock Production. *Animal Feed Science and Technology*. 133: 31-62.

Artim, L., Charlton, S., Dana, G., Faust, M., Glenn, K., Hartnell, G., Hunst, P., Jennings, J., Shillito, R. 2001. Animal Performance Trials with Bt Maize. Proceedings of the 4th Pacific Rim Conference - Biotechnology of Bacillus thuringiensis and Its Environmental Impact, Australian National University, Canberra, Australia, Nov 11-15, 2001: 246-253.

Aulrich, K., Reuter T., Flachowsky, G. 2002. The Fate of Foreign DNA in Farm Animals Fed with Genetically Modified Plants. *Proceedings of Society of Nutrition Physiology*. 11: 187-188.

Aulrich, K., Bohme, H., Daenicke, R., Halle, I., Flachowsky, G. 2002. Novel Feeds – A Review of Experiments at our Institute. *Food Research International*. 35: 285-293.

Aulrich, K., Bohme, H., Daenicke, R., Halle, I., Flachowsky, G. 2001. Genetically Modified Feeds in Animal Nutrition. 1st Communication: Bacillus thuringiensis (Bt) Corn in Poultry, Pig and Ruminant Nutrition. *Archives of Animal Nutrition*. 54(3): 183-195.

Aumaitre, A. 2004. Safety Assessment and Feeding Value for Pigs, Poultry and Ruminants of Pest Protected (Bt) Plants and Herbicide Tolerant (Glyphosate, Glufosinate) Plants: Interpretation of Experimental Results Observed Worldwide on Gm Plants. *Italian Journal of Animal Science*. 3(2): 107-121.

Baah, J., Scott, T., Kawchuk, L., Armstrong, J., Selinger, L., Cheng, K., McAllister, T. 2002. Feeding Value in Broiler Chicken Diets of a Potato Expressing a  $\beta$ -glucanase Gene from *Fibrobacter Succinogenes*. *Canadian Journal of Animal Science*. 82: 11-113.

Berger, B., Aulrich, K., Fleck, G., Flachowsky, G. 2003. Influence of Processing of Isogenic and Transgenic Rapeseed on DNA-degradation. (Einfluss des Verarbeitungsprozesses auf den Abbau der DNA in isogenem und transgenem Raps). *Proceedings of Society of Nutrition Physiology*. 12: 108.

Bertrand, J., Sudduth, T., Condon, A., Jenkins, T., Calhoun, M. 2005. Nutrient Content of Whole Cottonseed. *Journal of Dairy Science*. 88: 1470-1477.

Böhme, H., Aulrich, K., Daenicke R., Flachowsky, G. 2001. Genetically Modified Feeds in Animal Nutrition 2nd Communication: Glufosinate Tolerant Sugar Beets (roots and silage) and Maize Grains for Ruminants and Pigs. *Archives of Animal Nutrition*. 54: 197-207.

Brake, D., Thaler, R., Evenson, D. 2004. Evaluation of Bt -Bacillus thuringiensis- Corn on Mouse Testicular Development by Dual Parameter Flow Cytometry. *Journal of Agricultural and Food Chemistry*. 52: 2097-2102.

Brookes, A. 2000. GM and Non GM Ingredient Market Dynamics and Implications for the Feed Industry. Proceedings of the 6th International Feed Production Conference. Piacenza, Italy November 2000. Food Safety: Current Situation and Perspectives in the European Community. Editors, G. Piva and F. Masoero. Pages 308-314.

Chesson, A., Flachowsky, G. 2003. Transgenic Plants in Poultry Nutrition. World's Poultry Science Journal. 59: 201-208.

Chrenková, M., Sommer, A., Čerešňáková, Z., Nitrayova, S., Prostedná, M. 2002. Nutritional Evaluation of Genetically Modified Maize Corn Performed on Rats. Archives of Animal Nutrition. (Archiv fur Tiernahrung) 56(3): 229-235.

Cieslak, D. 2000. Implications of GMO's For Animal Nutrition and the Feed Industry. 61st Minnesota Nutrition Conference & Minnesota Soybean Research and Promotion Council Technical Symposium, September 19-20, 2000, Bloomington, MN. Conference Proceedings p 72-77.

Clark, J., Ipharraguerre, I. 2001. Livestock Performance: Feeding Biotech Crops. Journal of Dairy Science. 84(E. Suppl.) E9-E18.

Clark, J., Ipharraguerre, I. 2004. Biotechnology Crops as Feeds for Livestock. IN: Agricultural Biotechnology Challenges and Prospects, M.K. Balgat. Chapter 12: 177-198.

de la Campa, R., Hooker, D., Miller, J., Schaafsma, A., Hammond, B. 2005. Modeling Effects of Environment, Insect Damage, and Bt Genotypes on Fumonisin Accumulation in Maize in Argentina and the Philippines. Mycopathologia. 159: 539-552.

Faust, M.A. 2002. New Feeds from Genetically Modified Plants: The US Approach to Safety for Animals and the Food Chain. Livestock Production Science. 74: 239-254.

Faust, M., Glenn, B. 2002. Animal Feeds from Crops Derived through Biotechnology: Farm Animal Performance and Safety. IN: Biotechnology and Safety Assessment, Third edition, Editors John A. Thomas and Roy L. Fuchs, Academic Press, San Diego, CA. Chapter 6: 144-191.

Flachowsky, G., Aulrich, K., Bohme, H., Halle, I. 2007. Studies on Feeds from Genetically Modified Plants (GMP) - Contributions to Nutritional and Safety Assessment. Animal Feed Science and Technology. 133: 2-30.

Flachowsky, G., Chesson, A., Aulrich, K. 2005. Animal Nutrition with Feeds from Genetically Modified Plants. Archives of Animal Nutrition. 59(1): 1-40.

Flachowsky, G., Böhme, H. 2005. Proposals for Nutritional Assessments of Feeds from Genetically Modified plants. Journal of Animal and Feed Science. 14(Suppl. 1): 49-70.

Flachowsky, G., Aulrich, K., Berk, A., Daenicke, R., Reuter, T. 2002. Nutritional Assessment of Feeds from Genetically Modified (GM) Crops. Proceedings of Society of Nutrition Physiology. 11: 183-186.



Flachowsky, G., Aulrich, K. 2001. Nutritional Assessment of Feeds from Genetically Modified Organism. *Journal of Animal and Feed Science*. 10(Suppl. 1): 181-194.

Flachowsky, G., Aulrich, K., Böhme, H., Daenicke, R. 2000. GMO in Animal Nutrition: Results of Experiments at our Institute. Proceedings of the 6th International Feed Production Conference. Piacenza, Italy November 2000. Food Safety: Current situation and perspectives in the European Community. Editors, G. Piva and F. Masoero. Pages 291-307.

Hamilton, K., Pyla, P., Breeze, M., Olson, T., Li, M., Robinson, E., Gallagher, S., Sorbet, R., Chen, Y. 2004. Bollgard II Cotton: Compositional Analysis and Feeding Studies of Cottonseed from Insect-protected Cotton (*Gossypium hirsutum* L.) Producing the Cry1Ac and Cry2Ab2 Proteins. *Journal of Agriculture & Food Chemistry*. 52: 6969-6976.

Hammond, B., Campbell, K., Pilcher, C., DeGooyer, T., Robinson, A., McMillen, B., Spangler, S., Riordan, S., Rice, L., Richard, J. 2004. Lower Fumonisin Mycotoxin Levels in the Grain of Bt Corn Grown in the United States in 2000-2002. *Journal of Agricultural and Food Chemistry*. 52(5): 1390-1397.

Hammond, B. 2004. A Review of the Food/feed Safety and Benefits of Bacillus thuringiensis Protein Containing Insect-protected Crops. *ACS Symposium Series*, 866(Agricultural Biotechnology). 866: 103-123.

Hammond, B., Segueira, J., Pinson, L., Tatli, F., Grogna, R., Tinland, B. 2004. Consequences of Insect Protection of Maize on Fusarium Susceptibility. IN *Biology of Plant-Microbe Interactions*, Volume 4. Editors Igor Tikhonovich, Ben Lugtenberg and Nicolai Provorov. Pages 530-532.

Hammond, B., Stanisiewski, E., Fuchs, R., Astwood, J., Hartnell, G. 2002. Safety Assessment of Insect Protected Crops: Testing the Feeding Value of Bt Corn and Cotton Varieties in Poultry, Swine and Cattle. *Molecular Methods in Plant Analysis*, Vol. 22 Testing for Genetic Manipulation in Plants, Edited by J.F. Jackson, H.F. Linskens, and R.B. Inman, Springer-Verlag Berlin Heidelberg 2002. Pages 119-137.

Hartnell, G. 2000. Benefits of Biotech Crops For Livestock Feed. Proceedings 2000 Cornell Nutrition Conference For Feed Manufacturers. October 24-26, 2000, Rochester Marriott Thruway Hotel, Rochester, NY. Pages 46-56.

Hartnell, G.F. 2001. Potential of Biotech Crops as Livestock Feed. IN: *Advances in Dairy Technology*, Volume 13, Proceedings of the 2001 Western Canadian Dairy Seminar. Pages 249-262.

Hartnell, G.F. 2004. Using Biotechnology for the Production and Enhancement of Livestock Feed. IN: *Dairying: Using Science to Meet Consumers' Needs*, BSAS publication 29, Editors E. Kebreab, J. Mills, and D. Beever, Nottingham University Press, Nottingham, UK. Pages 189–198.

Hartnell, G.F. 2004. GM Crops – Shock Maker or Shock Breaker. Australasian Milling conference – Biennial Conference of the Flour Miller's Council of Australia and the Stock Feed Manufacturers' Council Of Australia, March 23-24, 2004, Melbourne, Australia. Pages 41-48.

Hartnell, G.F., Hatfield, R., Mertens, D., Martin, N. 2005. Potential Benefits of Plant Modification of Alfalfa and Corn Silage to Dairy Diets. Proceedings of the 20th Annual Southwest Nutrition and Management Conference Proceedings, Tempe, AZ. Pages 156-172.

Hartnell, G., Stanisiewski, E., Glenn, K. 2002. Feed Safety and Performance of Livestock Fed Biotech Enhanced Crops. Proceedings of the 2002 California Animal Nutrition Conference: 9-28.

Hartnell, G., Stanisiewski, E., Hammond, B., Astwood, J., Fuchs, R. 2001. Nutritive Value and Safety of Bt Corn Grain and Forage for Ruminants. 62nd Minnesota Nutrition Conference & Minnesota Corn Growers Association Technical Symposium, September 11-12, 2001, Bloomington, MN. Pages 182-192.

Huther, L., Drebes, S., Lebzien, P. 2005. Effect of Glyphosate Contaminated Feed on Rumen Fermentation Parameters and in sacco Degradation of Grass Hay and Corn Grain. Archives of Animal Nutrition. 59(1): 73-79.

Masoero, F., Moschini, M., Rossi, F., Prandini, A., Pietri, A. 1999. Nutritive Value Mycotoxin Contamination and In Vitro Rumen Fermentation of Normal and Genetically Modified Corn (cry1A(b)) Grown in Italy. Maydica 44: 205-209.

Molvig, L., Tabe, L., Eggum, B., Moore, A., Craig, S., Spencer, D. Higgins, T. 1997. Enhanced Methionine Levels and Increased Nutritive Value of Seeds of Transgenic Lflupins (*Lupinus angustifolius* L.) Expressing a Sunflower Seed Albumin Gene. Proceedings of National Academy of Science. (USA). 94: 8393-8398.

Murphy, P., Hendrich, S., Landgren, C., Bryant, C. 2006. Food Mycotoxins: An Update. Journal of Food Science. 71(5): R51-R65.

Owens, F. 2005. Corn Genetics and Animal Feeding Value. 66th Minnesota Nutrition Conference & Technical Symposium: Future of Corn in Animal Feed, September 20-21, 2005, St. Paul, MN. Conference Proceedings. Pages 2-25.

Owens, F., Soderlund, S., Hinds, M. 2002. Developing New Speciality Grains for Ruminants. Proceedings 13th Annual Florida Ruminant Nutrition Symposium. Pages 48-70.

Owens, F., Soderlund, S. 2000. Speciality Grains for Ruminants. 61st Minnesota Nutrition Conference & Minnesota Soybean Research and Promotion Council Technical Symposium, September 19-20, 2000, Bloomington, MN. Conference Proceedings. Pages 98-113.

Papst, C., Utz, H.F., Melchinger, A., Eder, J., Magg, T., Klein, D., Bohn, M. 2005. Mycotoxins Produced by *Fusarium* Spp. in Isogenic Bt Vs. Non-Bt Maize Hybrids Under European Corn Borer Pressure. Agronomy Journal. 97(1): 219 - 224.

Reuter, T., Aulrich, K., Flachowsky, G. 2001. Feeds from Genetically Modified Organism (GMO). Proceedings: International Symposium on Genetically Modified Crops

and Co-products as Feeds for Livestock, September, Nitra, Slovak Republic. Pages 31-36.

Sauber, T. 2000. Performance of Soybean Meals Produced From Genetically Enhanced Soybeans. 61st Minnesota Nutrition Conference & Minnesota Soybean Research and Promotion Council Technical Symposium, September 19-20, 2000, Bloomington, MN. Conference Proceedings. Pages 44-51.

Singh, M , Tiwari, D., Kumar, A., Kumar, M.R. 2003. Effect of Feeding Transgenic Cottonseed vis-à-vis Non-transgenic Cottonseed on Haematobiochemical Constituents in Lactating Murrah Buffaloes. Asian-Australian Journal of Animal Science. 16(12): 1732-1737.

Sommer, A., Chrenková, M., Nitrayová, S., Čerešňáková, Z., Bulla, J., Prostředná, M. 2002. Compositional and Nutritional Equivalence of Genetically Modified Maize Based on Rat Performance Test. Proceedings of Society of Nutrition Physiology. 11: 193.

Stilborn, H. 1999. The Future of Designer Grains For Nonruminants. 60th Minnesota Nutrition Conference & ZinPro Technical Symposium, September 20-22, 1999, Bloomington, MN. Conference Proceedings. Page 144.

Sung, H., Min, D., Kim, D., Li, D., Kim, H., Upadhaya, S., Ha, J. 2006. Influence of Transgenic Corn on the In Vitro Rumen Microbial Fermentation. Asian-Australasian Journal of Animal Sciences. 19(12): 1761-1768.

Tatli, F., Gullu, M., Ozdemir, F. 2004. Determination of Fungi Species, Relationships Between Ear Infection Rates and Fumonisin Quantities in Bt Maize. Bulletin OILB/SROP. Proceedings of the meeting of the IOBC/WPRS Working Group 'GMOs in Integrated Production', entitled Ecological Impact of Genetically Modified Organisms held in Prague, Czech Republic, 26-29 November 2003. 27(3): 161-164.

Tony, M. , Butschke, A., Zagon, J., Broll, H., Schauzu, M., Awadalla, S., Hafez, H., Flachowsky, G. 2003. Incidence of Genetically Modified Soyabean and Maize as Animal Feed in Egypt. Journal of Animal and Feed Sciences. 12: 325-339.

Tudisco, R., Infascelli, F., Cutrignelli, M., Bovera, F., Morcia, C., Faccioli, P., Terzi, V. 2006. Fate of Feed Plant DNA Monitored in Water Buffalo (*Bubalus bubalis*) and Rabbit (*Oryctolagus cuniculus*). Livestock Science. 105(1-3): 12-18.

Walli, T., Singh, P. 2003. Genetically Modified Plants as Animal Feeds: Scope, Safety Aspects and Relevance under India Situation. Indian Dairyman. 55(6): 55-61.

Wiatrak, P., Wright, D., Marois, J., Wilson, D. 2005. Influence of Planting Date on Aflatoxin Accumulation in Bt, Non-Bt, and Tropical Non-Bt Hybrids. Agronomy Journal. 97(2): 440 - 445.

Wiedemann, S. , Lutz, B., Kurtz, H., Schwarz, F., Albrecht, C. 2006. In Situ Studies on the Time-dependent Degradation of Recombinant Corn DNA and Protein in the Bovine Rumen. Journal of Animal Science. 84(1): 135-144.

Williams, W., Windham, G., Buckley, P., Daves, C. 2002. Aflatoxin Accumulation in Conventional and Transgenic Corn Hybrids Infested With Southwestern Corn Borer (Lepidoptera: Crambidae). *Journal of Agricultural and Urban Entomology*. 19(4): 227-236.

## **Beef Cattle**

Aumaitre, A., Aulrich, K., Chesson, A., Flachowsky, G., Piva, G. 2002. New Feeds from Genetically Modified Plants - Substantial Equivalence, Nutritional Equivalence, Digestibility, and Safety for Animals and the Food Chain. *Livestock Production Science*. 74 (3): 223-238.

Böhme, H., Aulrich, K., Daenicke, R., Flachowsky, G. 2001. Genetically Modified Feeds in Animal Nutrition 2nd Communication: Glufosinate Tolerant Sugar Beets (Roots and Silage) and Maize Grains for Ruminants and Pigs. *Archives of Animal Nutrition*. 54: 197-207.

Crawley, M.J. 1992. The Comparative Ecology of Transgenic and Conventional Crops. Second International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11 - 14, 1992, Goslar, Germany: 43-52.

Daenicke, D., Gadeken, D., Aulrich, K. 1999. Use of Silo Corn of Conventional Species and the Genetically Altered Bt-Hybrids in Cattle Feeding: - Fattened Cows. *Maiskolloquium: 12th Corn Colloquium 1999*: 40-42.

Daenicke, R., Aulrich, K., Flachowsky, G. 1999. GMO in Animal Feed: Bt Has No Influence on Nutritional and Physiological Properties. *Mais*: 135-137.

Daenicke, R., Gadeken, D., Aulrich, K. 1999. Einsatz von silomais herkömmlicher sorten und der gentechnisch veränderten Bt hybriden in der rinderfütterung-Mastrinder-Tagungsband des. 12, Maiskolloquiums am 27./28.03. 1999 in Wittenberg: 40-42.

Einspanier, R., Lutz, B., Rief, S., Berezina, O., Zverlov, V., Schwarz, W., Mayer, J. 2004. Tracing Residual Recombinant Feed Molecules During Digestion and Rumen Bacterial Diversity in Cattle Fed Transgene Maize. *European Food Research and Technology*. 218: 269-273.

Erickson, G., Robbins, N., Simon, J., Berger, L., Klopfenstein, T., Stanisiewski, R., Hartnell, G. 2003. Effect of Feeding Glyphosate-tolerant - Roundup-Ready® - Events GA21 or NK603 - Corn Compared With Reference Hybrids on Feedlot Steer Performance and Carcass Characteristics. *Journal Animal Science*. 81: 2600-2608.

Folmer, J., Grant, R., Milton, C., Beck, J. 2002. Utilization of Bt Corn Residues by Grazing Beef Steers and Bt Corn Silage and Grain by Growing Beef Cattle and Lactating Dairy Cows. *Journal of Animal Science*. 80 (5): 1352 - 1361.

Folmer, J., Erickson, G., Milton, C., Klopfenstein, T., Beck, J. 2000. Utilization of Bt Corn Residue and Corn Silage for Growing Beef Steers. *Journal of Animal Science*. 78 (Supplement 2): 85.

Kumar, R. Singhal, K. 2004. Chemical Composition and Nutritional Evaluation of Transgenic Cottonseed for Ruminants. *Indian Journal of Animal Sciences*. 74(8): 868 - 871.

- Lutz, B., Wiedemann, S., Einspanier, R., Mayer, J., Albrecht, C. 2005. Degradation of Cry1Ab Protein from Genetically Modified Maize in the Bovine Gastrointestinal Tract. *Journal of Agricultural and Food Chemistry*. 53: 1453-1456.
- McCann, M., Rogan, G., Fitzpatrick, S., Trujillo, W., Sorbet, R., Hartnell, G., Riodan, S., Nemeth, A. 2006. Glyphosate-tolerant Alfalfa is Compositionally Equivalent to Conventional Alfalfa (*Medicago sativa* L.). *Journal of Agricultural and Food Chemistry*. 54: 7187-7192.
- Ohlfest, J., Jess, L., Jurenka, R., Obrycki, J. 2002. Stability of Insecticidal Cry1Ab Protein in Transgenic Bt Corn Pollen Exposed to UV Irradiation. *Journal of the Kansas Entomological Society*. 75(1): 48-51.
- Phipps, R., Deaville, E., Maddison, B. 2003. Detection of Transgenic and Endogenous Plant DNA in Rumen Fluid, Duodenal Digesta, Milk, Blood, and Feces of Lactating Dairy Cows. *Journal Dairy Science*. 86: 4076-4078.
- Russell, J., Hersom, M., Pugh, A., Barrett, K., Farnham, D. 2000. Effects of Grazing Crop Residues from Bt-Corn Hybrids on the Performance of Gestating Beef Cows. *Journal of Animal Science*. 78 (Supplement 2): 79-80.
- Russell, J., Farnham, D., Berryman, R., Hersom, M., Pugh, A., Barrett, K. 2000. Nutritive Value of the Crop Residues from Bt-Corn Hybrids and Their Effects on Performance of Grazing Beef Cows. 2000 Beef Research Report -Iowa State University: 56-61.
- Russell, J., Petersen, T. 1999. Bt Corn and Non-Bt Corn Crop Residues Equal In Grazing Value. Iowa State University Extension. 1-17-2001, [www.extension.iastate.edu/newsrel/1999/jun99/jun9913.html](http://www.extension.iastate.edu/newsrel/1999/jun99/jun9913.html): 1-2.
- Shimada, N., Murata, H., Mikami, O., Yoshioka, M., Guruge, K., Yamanaka, N., Nakajima, Y., Miyazaki, S. 2006. Effects of Feeding Calves Genetically Modified Corn Bt11: A Clinico-Biochemical Study. *Journal Veterinarian Medical Science*. 68(10): 1113-1115.
- Van der Pol, K., Erickson, G., Robbins, N., Berger, L., Wilson, C., Klopfenstein, T., Stanisiewski, E., Hartnell, G. 2005. Effects of Grazing Residues or Feeding Corn from a Corn Rootworm-protected Hybrid (MON 863) Compared with Reference Hybrids on Animal Performance and Carcass Characteristics. *Journal of Animal Science*. 83: 2826-2834.
- Vander Pol, K., Simon, J., Erickson, G., Klopfenstein, T., Stanisiewski, E., Hartnell, G. 2003. Feeding Transgenic (Bt Corn Rootworm Protected and Roundup Ready®) Corn to Feedlot Cattle. *Neb. Beef Rep. MP 80-A*: 30-32.
- Wilson, C., Macken, C., Erickson, G., Klopfenstein, T., Stanisiewski, E., 2003. Utilization of Genetically Enhanced Corn Residue on Grazing Steer Performance. 2003 Nebraska Beef Report. Pages 18-19.

## **Poultry**

Aeschbacher, K., Messikommer, R., Meile, L., Wenk, C. 2005. Bt176 Corn in Poultry Nutrition: Physiological Characteristics and Fate of Recombinant Plant DNA in Chickens. *Poultry Science*. 84(3): 385-394.

Aeschbacher, K., Meile, L., Messikommer, R., Wenk, C. 2002. Influence of Genetically Modified Maize on Performance and Product Quality of Chickens. *Proceedings Society of Nutritional Physiology*. 11: 196.

Aeschbacher, K., Meile, L., Messikommer, R., Wenk, C., 2001. Genetically Modified Maize in Diets for Chickens and Laying Hens - Influence on Performance and Product Quality. *Genetically Modified Crops and Co-Products as Feeds for Livestock, International Symposium, Nitra, Slovak Republic, 19-20th September 2001*: 41-42.

Aeschbacher, K., R. Messikommer and C. Wenk. 2001. Physiological characteristics of Bt-176 corn in poultry and destiny of recombinant plant DNA in poultry products. *Annals of Nutr. And Metab.*45(Suppl. 1):376.

Ash, J., Novak, C., Scheideler, S. 2003. The Fate of Genetically Modified Protein from Roundup Ready® Soybeans in Laying Hens. *Journal Applied Poultry Research*. 12: 242-245.

Aulrich, K., Daenicke, R., Halle, I., Flachowsky, G. 1999. Comparative Investigations into the Use of Conventional and Bt Maize in Poultry and Ruminant Nutrition. *Kongressband*: 285-288.

Aulrich, K., Halle, I., Flachowsky, G. 1998. Ingredients and Digestibility of Corn Kernels of the Cesar Species and the Genetically Altered Bt-hybrids in Laying Hens. *Proc Einfluss von Erzeugung und Verarbeitung auf die Qualität landwirtschaftlicher Produkte*: 465-468.

Bennett, R., Phipps, R., Strange, A. 2006. The Use of Life Cycle Assessment to Compare the Environmental Impact of Production And Feeding of Conventional and Genetically Modified Maize for Broiler Production in Argentina. *Journal of Animal and Feed Sciences*. 15(1): 71-82.

Brake, J., Faust, M., Stein, J. 2005. Evaluation of Transgenic Hybrid Corn (VIP3a) in Broiler Chickens. *Poultry Science*. 84(3): 503 - 512.

Brake, J., Faust, M., Stein, J. 2003. Evaluation of Transgenic Event Bt11 Hybrid Corn in Broiler Chickens. *Poultry Science*. 82(4): 551 - 559.

Brake, J., Vlachos, D. 1998. Evaluation of Transgenic Event 176 "Bt" Corn in Broiler Chickens. *Poultry Science*. 77 (5): 648-653.

Chambers, P., Duggan, P., Heritage, J., Forbes, J. 2002. The Fate of Antibiotic Resistance Marker Genes in Transgenic Plant Feed Material Fed to Chickens. *Journal of Antimicrobial Chemotherapy*. 49(1): 161-164.

- Chesson, A., Flachowsky, G. 2003. Transgenic Plants in Poultry Nutrition. *World's Poultry Science Journal*. 59(2): 201-207.
- Chowdhury, E., Mikami, O., Murata, H., Sultana, P., Shimada, N., Yoshioka, M., Guruge, K., Yamamoto, S., Miyazaki, S., Yamanaka, N., Nakajima, Y. 2004. Fate of Maize Intrinsic and Recombinant Genes in Calves Fed Genetically Modified Maize Bt11. *Journal of Food Protection*. 67(2): 365-370.
- Deaville, E. , Maddison, B. 2005. Detection of Transgenic and Endogenous Plant DNA Fragments, in the Blood, Tissues, and Digesta of Broilers. *Journal of Agricultural & Food Chemistry*. 53: 10268-10275.
- Denbow, D., Grabau, E., Lacy, G., Kornegay, E., Russell, D., Umbeck, P. 1998. Soybeans Transformed with a Fungal Phytase Gene Improve Phosphorus Availability for Broilers. *Poultry Science*. 77: 878-881.
- Elangovan, A., Mandal, A., Johri, T. 2003. Comparative Performance of Broilers Fed Diets Containing Processed Meals of Bt, Parental Non-Bt Line or Commercial Cotton Seeds. *Asian-Australian Journal of Animal Sciences*. 16(1): 57-62.
- Flachowsky, G., Halle, I., Aulrich, K. 2005. Long Term Feeding of Bt-corn – A Ten Generation Study with Quails. *Archives of Animal Nutrition*. 59(6): 449-451.
- Halle, I., El Sanhoty, R. , Flachowsky, G. 2005. Nutritional Assessment of GM-Potatoes in Broiler Feeding (Untersuchung zur Beuteilung des Nährwertes von gentechnisch veränderten Kartoffeln beim Broiler). *Proceedings Society Nutritional Physiology*. 14: 63.
- Halle, I., Aulrich, K., Flachowsky, G. 2004. Four Generations of Feeding of GMO-corn to Breeder Quail. (Fütterung von gentechnisch verändertem Mais an Zuchtwachtein über vier Generationen). *Proceedings of Society of Nutritional Physiology*. 13: 124.
- Halle, I., Aulrich, K., Flachowsky, G. 1998. The Use of the Corn Species Cesar and the Genetically Altered Bt Hybrid in Fattening (Growing) of Broiler Chicks. 5th Conference Pig and Poultry Feeding: on the topic - New Discoveries and Future Developments in Pig and Poultry Feeding: 1-4.
- Hamilton, K. , Pyla, P., Breeze, M., Olson, T., Li, M., Robinson, E., Gallagher, S., Sorbet, R., Chen, Y. 2004. Bollgard II Cotton: Compositional Analysis and Feeding Studies of Cottonseed from Insect-protected Cotton (*Gossypium hirsutum* L.) Producing the Cry1Ac and Cry2Ab2 Proteins. *Journal of Agricultural & Food Chemistry*. 52: 6969-6976.
- Hammond, B., Vicini, J., Hartnell, G., Naylor, M., Knight, C., Robinson, E., Fuchs, R., Padgett, S. 1996. The Feeding Value of Soybeans Fed to Rats, Chickens, Catfish and Dairy Cattle Is Not Altered by Genetic Incorporation of Glyphosate Tolerance. *Journal of Nutrition*. 126: 717-727.
- Japan MAFF. 2001. No Traces of Modified DNA in Poultry Fed on GM Corn. *Nature*. 409: 657.



- Jennings, J., Albee, L., Kolwyck, D., Surber, J., Taylor, M., Hartnell, G., Lirette, R., Glenn, K. 2003. Attempts to Detect Transgenic and Endogenous Plant DNA and Transgenic Protein in Muscle from Broilers Fed YieldGard® Corn Borer Corn. *Poultry Science*. 82: 371-380.
- Kan, C., Hartnell, G. 2004. Evaluation of Broiler Performance When Fed Roundup-Ready® Wheat (Event Mon71800), Control, and Commercial Wheat Varieties. *Poultry Science*. 83: 1325-1334.
- Kan, C., Hartnell, G. 2004. Evaluation of Broiler Performance When Fed Insect-Protected, Control, or Commercial Varieties of Dehulled Soybean Meal. *Poultry Science*. 83: 2029-2038.
- Kan, C., Versteegh, H., Uijttenboogaart, T., Reimert, H., Hartnell, G. 2001. Comparison of Broiler Performance When Fed Bt, Parental-Isogenic Control or Commercial Varieties of Dehulled Soybean Meal. *Genetically Modified Crops and Co-Products as Feeds for Livestock, International Symposium, Nitra, Slovak Republic, Sept 19-20th, 2001*: 19-22.
- Kan, C.A., H.A.J. Versteegh, T.G. Uijttingoogaart, H.G.M. Reimert, and G.F. Hartnell. 2001. Comparison of Broiler Performance and Carcass Characteristics when Fed Bt, Parental Control or Commercial Varieties of Dehulled Soybean Meal. *Proceedings 13th European symposium on poultry nutrition, 1-4 October 2001 Blankenberghe Belgium*. Pages 131-132.
- Leeson, S. 1998. The Effect of Corn Hybrid CBH351 on the Growth of Male Broiler Chickens. *Department of Animal And Poultry Science (C-2-98)*:
- Li, X., Higgins, T., Bryden, W. 2006. Biological Response of Broiler Chickens Fed Peas (*Pisum sativum* L.) Expressing the Bean (*Phaseolus vulgaris* L.) .Alpha.-amylase Inhibitor Transgene. *Journal of the Science of Food and Agriculture*. 86(12): 1900-1907.
- Mandal, A.B., Elangovan, A.V., Shrivastav, A., Johri, A., Kaur, S., Johri, T. 2004. Comparison of Broiler Chicken Performance When Fed Diets Containing Meals of Bollgard® II Hybrid Cotton Containing Cry-x Gene(Cry1Ac and Cry2Ab Gene), Parental Line or Commercial Cotton. *British Poultry Science*. 45(5): 657 - 663.
- McNaughton, J. , Roberts, M., Rice, D., Smith, B., Hinds, M., Schmidt, J., Locke, M., Bryant, A., Rood, T., Layton, R., Lamb, I., Delaney, B. 2007. Feeding Performance in Broiler Chickens Fed Diets Containing DAS-59122-7 Maize Grain Compared to Diets Containing Non-transgenic Maize Grain. *Animal Feed Science and Technology*. 132(3-4): 227-239.
- Piva, G., Morlacchini, M., Pietri, A., Rossi, F., Prandini, A., Casadei, G., Cavanna, G. 2001. Performance of Broilers and Piglets Fed Bt Corn. *Proceedings: International Symposium on Genetically Modified Crops and Co-products as Feeds for Livestock, Nitra, Slovak Republic, September 2001*: 27-30.
- Querubin, L., Bantoc, C., Centeno, J., Dahilig, D., Carandang, N. 2004. Feeding Value of Two Yieldgard Corn Hybrids versus their Isogenic Counterparts, Treated with and without Insecticides, in Broiler Diets. *Proc. 11th AAAP Congress 2004*. 1: 111-113.

Querubin, L.J., Bantoc, C., Centeno, J., Dahilig, D., Carandang, N. 2002. Feeding Value of two YieldGard (YG) Corn Hybrids versus their Isogenic Counterparts, Treated with and without Insecticides in Broiler Diets. Proceedings of the PSAS 39th National & 20th Visaya Chapter Sci. Sem. & Ann. Convention, 23-25 Oct. 2002, Cebu City, Philippines. Pages 55-56.

Ravindran, V., Tabe, L., Molvig, L., Higgins, T., Bryden, W. 2002. Nutritional Evaluation of Transgenic High-methionine Lupins (*Lupinus angustifolius*) with Broiler Chickens. *Journal of Science & Food Agriculture*. 82: 280-285.

Rossi, F., Morlacchini, M., Fusconi, G., Pietri, A., Mazza, R., Piva, G. 2005. Effect of Bt Corn on Broiler Growth Performance and Fate of Feed-derived DNA in the Digestive Tract. *Poultry Science*. 84(7): 1022 - 1030.

Sidhu, R., Hammond, B., Fuchs, R., Mutz, J., Holden, L., George, B., Olson, T. 2000. Glyphosate-Tolerant Corn: The Composition and Feeding Value of Grain from Glyphosate-Tolerant Corn is Equivalent to that of Conventional Corn (*Zea Mays L.*). *Journal of Agriculture & Food Chemistry*. 48: 2305-2312.

Taylor, M., Hartnell, G., Nemeth, M., Karunanandaa, K., George, B. 2005. Comparison of Broiler Performance when Fed Diets Containing Corn Grain with Insect-Protected (Corn Rootworm and European Corn Borer) and Herbicide-Tolerant (Glyphosate) Traits, Control Corn, or Commercial Reference Corn - Revisited. *Poultry Science*. 84: 1893-1899.

Taylor, M., Hartnell, G., Nemeth, M., Karunanandaa, K., George, B. 2005. Comparison of Broiler Performance When Fed Diets Containing Corn Grain With Insect-Protected (Corn Rootworm and European Corn Borer) and Herbicide-tolerant (Glyphosate) Traits, Control Corn, or Commercial Reference Corn. 84: 587-593.

Taylor, M., Stanisiewski, E., Riordan, S., Nemeth, M., George, B., Hartnell, G. 2004. Comparison of Broiler Performance When Fed Diets Containing Roundup Ready® - Event RT73-, Nontransgenic Control, or Commercial Canola Meal. *Poultry Science*. 83: 456-461.

Taylor, M., Hartnell, G., Riordan, S., Nemeth, M., Karunanandaa, K., George, B., Astwood, J. 2003. Comparison of Broiler Performance When Fed Diets Containing Grain from Yieldgard® MON810, Yieldgard® X Roundup Ready® - GA21, Nontransgenic Control, or Commercial Corn. *Poultry Science*. 82: 823-830.

Taylor, M., Hartnell, G., Riordan, S., Nemeth, M., Karunanandaa, K., George, B., Astwood, J. 2003. Comparison of Broiler Performance When Fed Diets Containing Grain from Roundup Ready® - NK603, YieldGard® X Roundup Ready® - MON810 X NK603, Non-transgenic Control, or Commercial Corn. *Poultry Science*. 82: 443-453.

Taylor, M., Hyun, Y., Hartnell, G., Riordan, S., Nemeth, M., Karunanandaa, K., George, B., Astwood, J. 2003. Comparison of Broiler Performance When Fed Diets Containing Grain from YieldGard® Rootworm - MON863, YieldGard® Plus - MON810 x MON863, Nontransgenic Control, or Commercial Reference Corn Hybrids. *Poultry Science*. 82: 1948-1956.

Tony, M., Broll, H., Zagon, J., Halle, I., Farouk, F., Edris, B., Awadalla, S., Bögl, K., Schauzu, M., Flachowsky, G. 2002. Detection and Impact of Bt 176 Maize on Broiler Health and Performance. *Proceedings of Society of Nutritional Physiology*. 11: 197.

Tony, M., Butschke, A., Broll, H., Zagon, J., Schauzu, M., Halle, I., Dänicke, S., Flachowsky, G. 2003. Fate of DNA from Isogenic and Transgenic (Bt 176) Maize after Feeding to Broilers (Abbau von DNA aus isogenem und transgenem (Bt 176) Mais in Broilern). *Proceedings of Society of Nutritional Physiology*. 12: 109.

Yonemochi, C., Fujisaki, H., Harada, C., Kusama, T., Hanazumi, M. 2002. Evaluation of Transgenic Event CBH 351 (Starlink) Corn in Broiler Chicks. *Journal of Animal Science*. 73: 221-228.

Zhang, Z., Kornegay, E., Radcliffe, J., Denbow, D., Veit, H., Larson, C. 2000. Comparison of Genetically Engineered Microbial and Plant Phytase for Young Broilers. *Poultry Science*. 79: 709-717.

**Dairy**

Aumaitre, A., Aulrich, K., Chesson, A., Flachowsky, G., Piva, G. 2002. New Feeds from Genetically Modified Plants - Substantial Equivalence, Nutritional Equivalence, Digestibility, and Safety for Animals and the Food Chain. *Livestock Production Science*. 74 (3): 223-238.

Barriere, Y., Verite, R., Brunshwig, P., Surault, F., Emile, J. 2001. Feeding Value of Silage Maize Estimated With Sheep and Dairy Cows Is Not Altered by Genetic Incorporation of Bt 176 Resistance to *Ostrinia nubilalis*. *Journal of Dairy Science*. 84 (8): 1863-1871.

Castillo, A., Gallardo, M., Maciel, M., Giordano, J., Conti, G., Gaggiotti, M., Quaino, O., Gianni, C., Hartnell, G. 2004. Effects of Feeding Rations With Genetically Modified Whole Cottonseed to Lactating Holstein Cows. *Journal of Dairy Science*. 87: 1778-1785.

Chrenková, M., Čerešňáková, Z., Sommer, A., Ulrichová, Z., Žitňan, R. 2002. In Sacco Nutrient Degradability of RR Maize Corn. *Proceedings of Society of Nutrition Physiology*. 11: 194.

Donkin, S., Velez, J., Stanisiewski, E., Hartnell, G. 2003. Effects of Feeding Silage and Grain from Glyphosate-tolerant or Insect-Protected Corn Hybrids on Feed Intake, Ruminant Digestion, and Milk Production in Dairy Cattle. *Journal of Dairy Science*. 86(5): 1780-1788.

Donkin, S., Velez, J., Stanisiewski, E., Hartnell, G. 2000. Effect of Feeding Roundup Ready® Corn Silage and Grain on Feed Intake, Milk Production and Milk Composition in Lactating Dairy Cattle. *Journal of Dairy Science*. 83 (Supplement 1): 273.

Faust, M. 2000. Livestock Products: Composition and Detection of Transgenic DNA/Proteins. *Proceedings of Symposium: Agriculture, Biotechnology, Market*. ADAS-ASAS (editor). Baltimore, MD (USA): 29.

Faust, M., DeWitt, D. 1998. Determining Feeding Related Characteristics for Bt Corn. 1998 Dairy Report - Iowa State University: 1-3.

Faust, M. 1997. Milk Production Study Finds No Bt in Milk. IC-478. Fall Special Livestock Edition. Iowa State University Extension, Ames, Iowa: 6-7.

Flachowsky, G., Aulrich, K., Bohme, H., Daenicke, R. 2000. Transgenic Food for Good Cattle? Tests on Animal Food Using Genetically Modified Foodstuffs. *Research Report*: 1-8.

Folmer, J., Grant, R., Milton, C., Beck, J. 2002. Utilization of Bt Corn Residues by Grazing Beef Steers and Bt Corn Silage and Grain by Growing Beef Cattle and Lactating Dairy Cows. *Journal of Animal Science*. 80 (5): 1352 - 1361.

- Folmer, J., Grant, R., Beck, J. 2001. Use of Bt Corn Silage and Grain by Lactating Dairy Cows. University of Nebraska Cooperative Extension MP78-A. Dairy Report: 13-17.
- Folmer, J., Grant, R., Milton, C., Beck, J. 2000. Effect of Bt Corn Silage on Short-Term Lactational Performance and Ruminal Fermentation in Dairy Cows. *Journal of Dairy Science*. 83 (5): 1182.
- Grant, R., Fanning, K., Kleinschmit, D., Sparks, A., Stanisiewski, E., Hartnell, G. 2003. Influence of Glyphosate-tolerant -Event NK603- and Corn Rootworm Protected -Event MON863- Corn Silage and Grain on Feed Consumption and Milk Production in Holstein Cattle. *Journal of Dairy Science*. 86(5): 1707-1715.
- Hamilton, K., Pyla, P., Breeze, M., Olson, T., Li, M., Robinson, E., Gallagher, S., Sorbet, R., Chen, Y. 2004. Bollgard II Cotton: Compositional Analysis and Feeding Studies of Cottonseed from Insect-protected Cotton (*Gossypium hirsutum* L.) Producing the Cry1Ac and Cry2Ab2 Proteins. *Journal of Agriculture & Food Chemistry*. 52: 6969-6976.
- Hammond, B., Vicini, J., Hartnell, G., Naylor, M., Knight, C., Robinson, E., Fuchs, R., Padgett, S. 1996. The Feeding Value of Soybeans Fed to Rats, Chickens, Catfish and Dairy Cattle Is Not Altered by Genetic Incorporation of Glyphosate Tolerance. *Journal of Nutrition*. 126: 717-727.
- Ipharraguerre, I., Younker, R., Clark, J., Stanisiewski E., Hartnell, G. 2003. Performance of Lactating Dairy Cows Fed Corn as Whole Plant Silage and Grain Produced from a Glyphosate-tolerant Hybrid (event NK603). *Journal of Dairy Science*. 86: 1734-1741.
- Ipharraguerre, I., Younker, R., Clark, J., Stanisiewski, E., Hartnell, G. 2002. Performance of Lactating Dairy Cows Fed Glyphosate-tolerant Corn -Event NK603. *Journal Dairy Science*. 85 (Supplement 1): 358.
- Kumar, R., Singhal, K. 2004. Chemical Composition and Nutritional Evaluation of Transgenic Cotton for Ruminants. *Indian Journal of Animal Sciences*. 74(8): 868-871.
- Lutz, B., Wiedemann, S., Einspanier, R. Mayer, J., Albrecht, C. 2005. Degradation of Cry1Ab Protein from Genetically Modified Maize in the Bovine Gastrointestinal Tract. *Journal of Agriculture & Food Chemistry*. 53: 1453-1456.
- Mayer, J., Rutzmoser, K. 1999. Use of Silo Corn of Conventional Species and the Genetically Altered Bt-Hybrids in Cattle Feeding: - for Dairy Cows. *Maiskolloquium: 12th Corn Colloquium 1999*: 1-4.
- Phipps, R., Jones, A.K., Tingey, A., Abeyasekera, S. 2005. Effect of Corn Silage from an Herbicide-tolerant Genetically Modified Variety on Milk Production and Absence of Transgenic DNA in Milk. *Journal of Dairy Science*. 88(8): 2870-2878.
- Phipps, R., Deaville, E., Maddison, B. 2003. Detection of Transgenic and Endogenous Plant DNA in Rumen Fluid, Duodenal Digesta, Milk, Blood, and Feces of Lactating Dairy Cows. *Journal of Dairy Science*. 86: 4070-4078.

Phipps, R., Beever, D. 2001. Detection of Transgenic DNA in Milk from Cows Receiving Herbicide Tolerant (CP4 epsps) Soybean Meal. Proceedings of the 52nd Annual Meeting of the European Association of Animal Production, August, Budapest, Hungary: 142.

Singhal, K. , Kumar, S., Tyagi, A., Rajput, Y. 2006. Evaluation of Bt Cottonseed as a Protein Supplement in the Ration of Lactating Dairy Cows. Indian Journal of Animal Sciences. 76(7): 532-537.

Sung, H., Li, D., Lee, S., Lee, S., Choi, N., Ko, J., Ha, J. 2004. Comparison Between Normal and Genetically Modified Corn in their Effects on Rumen Fermentation. Proceedings 11th AAAP Congress 2004. Vol. 3: 271-273.

Weisbjerg, M., Hvelplund, T., Purup, S., Vestergaard, M. , Sejrsen, K. 2001. Genetically Modified Beets and Beet Pulp as Feeds for Ruminants, Experiments with Sheep and Dairy Cattle at Research Centre Foulum, Denmark. Proceedings: International Symposium on Genetically Modified Crops and Co-Products as Feeds for Livestock, Nitra, Slovak Republic: 37-40.

Yonemochi, C., Ikeda, T., Harada, C., Kusama, T., Hanazum, M. 2003. Influence of Transgenic Corn (CBH 351, named Starlink) on Health Condition of Dairy Cows and Transfer of Cry9C Protein and Cry9c Gene to Milk, Blood, Liver and Muscle. Animal Science Journal. 74: 81-88.

**Swine**

Aalhus, J., Dugan, M., Lien, K., Larsen, I., Costello, F., Rolland, D., Best, D., Thacker, R. 2003. Effects of Feeding Glyphosate-tolerant Canola Meal on Swine Growth, Carcass Composition and Meat Quality. Erratum to 2003 Joint Annual Meeting. *Journal of Animal Science*. 81(Supplement 1): 3267.

Beagle, J., Apgar, G., Jones, K., Griswold, K., Radcliffe, J., Qiu, X., Lightfoot, D., Iqbal, M. 2006. The Digestive Fate of Escherichia coli Glutamate Dehydrogenase Deoxyribonucleic Acid from Transgenic Corn in Diets Fed to Weanling Pigs. *Journal of Animal Science*. 84: 597-607.

Böhme, H., Hommel, B., Flachowsky, G. 2005. Nutritional Assessment of Silage from Transgenic Inulin Synthesizing Potatoes for Pigs. *Journal of Animal and Feed Science*. 14 (Suppl. 1): 333-336.

Böhme, H., Aulrich, K., Daenicke, R., Flachowsky, G. 2001. Genetically Modified Feeds in Animal Nutrition 2nd Communication: Glufosinate Tolerant Sugar Beets (Roots and Silage) and Maize Grains for Ruminants and Pigs. *Archives of Animal Nutrition*. 54: 197-207.

Bohme, H., Aulrich, K. 1999. Ingredients and Digestibility of Transgenic Basta Resistant Sugar Beets and Corn in Comparison to the Isogenic Varieties in the Case of Pigs. *VDLUFA Conference Proceedings 1999, 111th VDLUFA Conference, 13-17 September 1999*: 289-292.

Broll, H., Zagon, J., Butschke, A., Leffke, A., Spiegelberg, A., Bohme, H., Flachowsky, G. 2005. The Fate of DNA of Transgenic Inulin Synthesizing Potatoes in Pigs. *Journal Animal and Feed Science*. 14. Suppl 1: 337-340.

Chowdhury, E., Kuribara, H., Hino, A., Sultana, P., Mikami, O., Shimada, N., Guruge, K., Saito, M., Nakajima, Y. 2004. Detection of Corn Intrinsic and Recombinant DNA Fragments and Cry1Ab Protein in the Gastrointestinal Contents of Pigs Fed Genetically Modified Corn Bt11. *Journal of Animal Science*. 81: 2546-2551.

Cromwell, G., Henry, B., Scott, A., Gerngross, M., Dusek, D., Fletcher, D. 2005. Glufosinate Herbicide-tolerant -Liberty Link- Rice vs. Conventional Rice in Diets for Growing-finishing Swine. *Journal of Animal Science*. 83: 1068-1074.

Cromwell, G.L., Lindemann, M., Randolph, J., Parker, G., Coffey, R., Laurent, K., Armstrong, C., Mikel, W, Stanisiewski, E., Hartnell, G. 2002. Soybean Meal from Roundup Ready or Conventional Soybeans in Diets for Growing-finishing Swine. *Journal of Animal Science*. 80: 708-715.

Custodio, M., Powers, W., Huff-Lonergan, E., Faust, M., Stein, J. 2006. Growth, Pork Quality, and Excretion Characteristics of Pigs Fed Bt Corn or Non-transgenic Corn. *Canadian Journal of Animal Science*. 86(4): 461-469.

Fischer, R., Lewis, A., Miller, P. 2002. Comparison of Swine Performance When Fed Diets Containing Roundup Ready® Corn, Parental Line Corn, or Two Commercial Corns. *2002 Nebraska Swine Report*: 7-11.

Guthrie, T. , Apgar, G., Griswold, K., Lindemann, M., Radcliffe, J., Jacobson, B. 2004. Nutritional Value of a Corn Containing a Glutamate Dehydrogenase Gene for Growing Pigs. *Journal of Animal Science*. 82: 1693-1698.

Hyun, Y., Bressner, G., Fischer, R., Miller, P., Ellis, M., Peterson, B., Stanisiewski, E., Hartnell, G. 2005. Performance of Growing-finishing Pigs Fed Diets Containing YieldGard Rootworm Corn (MON 863), a Nontransgenic Genetically Similar Corn, or Conventional Corn Hybrids. *Journal of Animal Science*. 83: 1581-1590.

Hyun, Y., Bressner, G., Ellis, M., Lewis, A., Fischer, R., Stanisiewski, E., Hartnell, G. 2004. Performance of Growing-finishing Pigs Fed Diets Containing Roundup Ready® Corn - Event NK603, a Nontransgenic Genetically Similar Corn, or Conventional Corn Lines. *Journal of Animal Science*. 82: 571-580.

Jennings, J., Kolwyck, D., Kays, S., Whetsell, A., Surber, J., Cromwell, G., Lirette, R., Glenn, K. 2003. Determining Whether Transgenic and Endogenous Plant DNA and Transgenic Protein are Detectable in Muscle from Swine Fed Roundup Ready® Soybean Meal. *Journal of Animal Science*. 81: 1447-1455.

Mazza, R., Soave, M., Morlacchini, M., Piva, G., Marocco, A. 2005. Assessing the Transfer of Genetically Modified DNA from Feed to Animal Tissues. *Transgenic Research*. 14: 775-784.

Piva, G., Morlacchini, M., Pietri, A., Rossi, F., Prandini, A., Casadei, G., Cavanna, G. 2001. Performance of Broilers and Piglets Fed Bt Corn. *Proceedings: International Symposium on Genetically Modified Crops and Co-products as Feeds for Livestock*, Nitra, Slovak Republic, September 2001: 27-30.

Reuter, T., Aulrich, K. 2003. Investigations on Genetically Modified Maize (Bt-maize) in Pig Nutrition: Fate of Feed Ingested Foreign DNA in Pig Bodies. *European Food Research Technology*. 216: 185-192. DOI: 10.1007/s00217-002-0642-7

Reuter, T., Aulrich, K., Berk, A., Flachowsky, G. 2002. Investigations on Genetically Modified Maize (Bt-Maize) in Pig Nutrition: Chemical Composition and Nutritional Evaluation. *Archives of Animal Nutrition - Archiv Fur Tierernahrung*. 56(1): 23-31.

Reuter, T., Aulrich, K., Berk, A. 2002. Investigations on Genetically Modified Maize - Bt Maize in Pig Nutrition - Fattening Performance and Slaughtering Results. *Archives of Animal Nutrition*. 56: 319-326.

Reuter, T., Aulrich, K., Berk, A., Flachowsky, G. 2001. Nutritional Evaluation of Bt-Corn in Pigs. *Journal of Animal Science*. 79: 1073.

Reuter, T., Aulrich, K., Berk, A., Flachowsky, G. 2001. Nutritional Evaluation of Bt-Maize in Pigs. *Proceedings of Society of Nutrition and Physiology*. 10: 111.



Sauber, T. 2000. Performance in Pigs of Soybean Meals Produced from Genetically Enhanced Soybeans. University of Minnesota: 61st Minnesota Nutrition Conference and Minnesota Soybean Research and Promotion Council Technical Symposium: 44-51.

Sharma, R., Damgaard, D., Alexander, T., Dugan, M., Aalhus, J., Stanford, K., McAllister, T. 2006. Detection of Transgenic and Endogenous Plant DNA in Digesta and Tissues of Sheep and Pigs Fed Roundup Ready Canola Meal. *Journal of Agricultural and Food Chemistry*. 54(5): 1699-1709.

Spencer, J., Allee, G., Sander, T. 2000a. Phosphorus Bioavailability and Digestibility of Normal and Genetically Low Phytate Corn for Pigs. *Journal of Animal Science*. 78: 675-681.

Spencer, J., Allee, G., Sander, T. 2000b. Growing-Finishing Performance and Carcass Characteristics of Pigs Fed Normal or Genetically Modified Low-Phytate Corn. *Journal of Animal Science*. 78: 1529-1536.

Weber, T., Richert, B., Kendall, D., Bowers, K., Herr, C. 2000. Grower - Finisher Performance and Carcass Characteristics of Pigs Fed Genetically Modified "Bt" Corn. Purdue University 2000 Swine Day Report. 7-25-2001,

Weekes, R., Deppe, C., Allnut, T., Boffey, C., Morgan, D., Morgan, S., Bilton, M., Daniels, R., Henry, C. 2005. Crop-to-Crop Gene Flow Using Farm Scale Sites of Oilseed Rape -*Brassica napus*- in the UK. *Transgenic Research*. 14: 749-759.

Yonemochi, C., Ikeda, T., Harada, C., Kusama, T., Hanazumi, M. 2005. Influence of Transgenic Corn -CBH 351, named Starlink- on Health Condition of Dairy Cows and Transfer of Cry9C Protein and cry9C Gene to Milk, Blood, Liver and Muscle. *Animal Science Journal*. 74: 81-88.

Zhang, Z., Kornegay, E., Radcliffe, J., Wilson, J., Veit, H. 2000. Comparison of Genetically Engineered Microbial and Plant Phytase for Young Pigs. *Journal of Animal Science*. 78: 2868-2878.

## **Rabbits**

Aumaitre, A., Aulrich, K., Chesson, A., Flachowsky, G., Piva, G. 2002. New Feeds from Genetically Modified Plants - Substantial Equivalence, Nutritional Equivalence, Digestibility, and Safety for Animals and the Food Chain. *Livestock Production Science*. 74(3): 223-238.

Chrastinová, L., Sommer, A., Rafay, J., Čaniga, R., Prostředná, M. 2002. Genetically Modified Maize in Diets for Rabbits – Influence on Performance and Product Quality. *Proceedings of Society of Nutrition Physiology*. 11: 195.

Goldman, B., Nierman, W., Kaiser, D., Slater, S., Durkin, A., Elsen, J., Ronning, C., Barbazuk, W., Blanchard, M., Field, C., Halling, C., Hinkle, G., Lartchuk, O., Kim, H., Mackenzie, C., Madupu, R., Miller, N., Shvartsbeyn, A., Sullivan, S., Vaudin, M., Wiegand, R., Kaplan, H. 2006. Evolution of Sensory Complexity Recorded in a Myxobacterial Genome. *PNAS*. 103(41): 15200-15205.

Maertens, L., Luzi, F., Huybechts, I. 1996. Digestibility of Non-Transgenic and Transgenic Oilseed Rape in Rabbits. *Proceedings of 6<sup>th</sup> World Rabbit Congress, Toulouse, Volume I*: 231-235.

Tudisco, R., Lombardi, P., Bovera, F., d'Angelo, D., Cutrignelli, M., Mastellone, V., Terzi, V., Avallone, L., Infascelli, F. 2006. Genetically Modified Soya Bean in Rabbit Feeding: Detection of DNA Fragments and Evaluation of Metabolic Effects by Enzymatic Analysis. *Animal Science*. 82: 193-199.

**Sheep**

Alexander, T., Reuter, T., Okine, E., Sharma, R., McAllister, T. 2006. Conventional and Real-Time Polymerase Chain Reaction Assessment of the Fate of Transgenic DNA in Sheep Fed Roundup Ready® Rapeseed Meal. *British Journal of Nutrition*. 96: 997-1005.

Alexander, T., Sharma, R., Deng, M., Whetsell, A., Jennings, J., Wang, Y., Okine, E., Damgaard, D., McAllister, T. 2004. Use of Quantitative Real-Time and Conventional PCR to Assess the Stability of the CP4 EPSPS Transgene from Roundup Ready® Canola in the Intestinal, Ruminal, and Fecal Contents of Sheep. *Journal of Biotechnology*. 112: 255-266.

Barriere, Y., Verite, R., Brunshwig, P., Surault, F., Emile, J. 2001. Feeding Value of Silage Maize Estimated With Sheep and Dairy Cows Is Not Altered by Genetic Incorporation of Bt 176 Resistance to *Ostrinia nubilalis*. *Journal of Dairy Science*. 84(8): 1863-1871.

Böhme, H., Aulrich, K., Daenicke, R., Flachowsky, G. 2001. Genetically Modified Feeds in Animal Nutrition 2nd Communication: Glufosinate Tolerant Sugar Beets (roots and silage) and Maize Grains for Ruminants and Pigs. *Archives of Animal Nutrition*. 54: 197-207.

Daenicke, R., Gadeken, D., Aulrich, K. 1999. Einsatz von Silomais herkömmlicher Sorten und der gentechnisch veränderten Bt Hybriden in der Rinderfütterung - Mastrinder -Tagungsband des. 12, Maiskolloquiums am 27./28.03.1999 in Wittenberg. 40-42.

Daenicke, R., Aulrich, K., Flachowsky, G. 1999. GMO in Animal Feedstuffs: Nutritional Properties of Bt-Maize Unaffected. *Mais*. 27 (September): 135-137.

Duggan, P., Chambers, P., Heritage, J., Forbes, J. 2003. Fate of Genetically Modified Maize DNA in the Oral Cavity and Rumen of Sheep. *British Journal of Nutrition*. 89(2): 159 - 166.

Hartnell, G., Hvelplund, T., Weisbjerg, M. 2005. Nutrient Digestibility in Sheep Fed Diets Containing Roundup Ready® or Conventional Fodder Beet, Sugar Beet, and Beet Pulp. *Journal of Animal Science*. 83: 400-407.

Mayer, J., Rutzmoser, K. 1999. Einsatz von Silomais herkömmlicher sorten und der gentechnisch veränderten Bt-hybriden in der Rinderfütterung: - bei Milchkühen. 12 Maiskolloquium, pages 36-39.

Sharma, R., Alexander, T., Damgaard, D., McAllister, T. 2003. Stability of Transgenic DNA from Roundup Ready Canola in Duodenal Fluids of Ruminants. No. R62. *Proceedings of Canadian Society of Animal Sciences*, June 10-13, 2003 Saskatoon, Saskatchewan, Canada.

Stanford, K., Aalhus, J., Dugan, M., Wallins, G., Sharma, R., McAllister, T. 2003. Effects of Feeding Transgenic Canola on Apparent Digestibility, Growth Performance

and Carcass Characteristics of Lambs. *Canadian Journal of Animal Science*. 83(2): 299-305.

Weisbjerg, M., Hvelplund, T., Purup, S., Vestergaard, M., Sejrsen, K. 2001. Genetically Modified Beets and Beet Pulp as Feeds for Ruminants, Experiments With Sheep and Dairy Cattle at Research Centre Foulum, Denmark. *Proceedings: International Symposium on Genetically Modified Crops and Co-products as Feeds for Livestock*, Nitra, Slovak Republic: 37-40.

White, C., Tabe, L., Dove, H., Hamblin, J., Young, P., Phillips, N., Taylor, R., Gulati, J., Ashes, J., Higgins, T. 2000. Increased Efficiency of Wool Growth and Live Weight Gain in Merino Sheep Fed Transgenic Lupin Seed Containing Sunflower Albumin. *Journal of the Science of Food & Agriculture*. 81: 147-154.

## **Multiple Animals**

Artim, L., Charlton, S., Dana, G., Faust, M., Glenn, K., Hartnell, G., Hunst, P., Jennings, J., Shillito, R. 2001. Animal Performance Trials With Bt Maize. Proceedings of the 4th Pacific Rim Conference - Biotechnology of Bacillus thuringiensis and Its Environmental Impact, Australian National University, Canberra, Australia, Nov 11-15, 2001: 246-253.

Aulrich, K., Bohme, H., Daenicke, R., Halle, I., Flachowsky, G. 2002. Novel Feeds - A Review of Experiments at Our Institute. Food Research International. 35: 285-293.

Aumaitre, A., Aulrich, K., Chesson, A., Flachowsky, G., Piva, G. 2002. New Feeds from Genetically Modified Plants - Substantial Equivalence, Nutritional Equivalence, Digestibility, and Safety for Animals and the Food Chain. Livestock Production Science. 74(3): 223-238.

Beever, D., Phipps, R. 2001. The Fate of Plant DNA and Novel Proteins in Feeds for Farm Livestock - A United Kingdom Perspective. Journal of Animal Science. 79: Supplement E: E290-E295.

Chrenkova, M., Sommer, A., Ceresnakova, Z., Nitrayova, S., Prostedna, M. 2002. Nutritional Evaluation of Genetically Modified Maize Corn Performed on Rats. Archives of Animal Nutrition - Archiv Fur Tierernahrung. 56(3): 229 - 235.

Cieslak, D. 2000. Implications of GMO's for Animal Nutrition and the Feed Industry. University of Minnesota: 61st Minnesota Nutrition Conference and Minnesota Soybean Research and Promotion Council Technical Symposium: 72-77.

Clark, J., Ipharraguerre, I. 2001. Livestock Performance: Feeding Biotech Crops. Journal of Dairy Science. 84(E Supplement): E9-E18.

Daenicke, R., Aulrich, K., Flachowsky, G. 1999. GMO in Animal Feed Bt Has No Influence on Nutritional and Physiological Properties. Mais: 135-137.

Dowd, P. F. 2000. Indirect Reduction of Ear Molds and Associated Mycotoxins in Bacillus thuringiensis Corn Under Controlled and Open Field Conditions: Utility and Limitations. Journal of Economic Entomology. 93(6): 1669-1679.

Duvick, J. 2001. Prospects for Reducing Fumonisin Contamination of Maize through Genetic Modification. Environmental Health Perspectives. 109(Supplement 2): 337-342.

Faust, M. 1999. Research Update on Bt Corn Silage. Four - State Applied Nutrition and Management Conference. Midwest Plant Service. Ames Iowa 1999: 157-164.

Flachowsky, G., Aulrich, K. 2002. Food of Animal Origin After Feeding of Feeds from Genetically Modified Plants (GMP). Ernahrungs-Umschau. 49(3): 84 - 88.

Flachowsky, G., Aulrich, K., Daenicke, R., Bohme, H. 2000. Genetically Modified Feeds (GMO) in Animal Nutrition. Book of Abstracts of the 51st Annual Meeting of the European Association for Animal Production: 1-6.

- Flachowsky, G., Aulrich, K., Bohme, H., Daenicke, R. 2000. GMO in Animal Nutrition - Results of Experiments at our Institute. Proceedings of the 6th International Feed Production Conference, Piacenza, 27-28 November 2000: 291-307.
- Flachowsky, G., Aulrich, K., Daenicke, R., Bohme, H. 1999. Genetically Modified Products (GMO) in Animal Nutrition. LAF Information Lectures from the Conferences. 7(2): 67-141.
- Hammond, B., Vicini, J., Hartnell, G., Naylor, M., Knight, C., Robinson, E., Fuchs, R., Padgett, S. 1996. The Feeding Value of Soybeans Fed to Rats, Chickens, Catfish and Dairy Cattle Is Not Altered by Genetic Incorporation of Glyphosate Tolerance. Journal of Nutrition. 126: 717-727.
- Hartnell, G., Stanisiewski, E., Hammond, B., Astwood, J., Fuchs, R. 2001. Nutritive Value and Safety of Bt Corn Grain and Forage for Ruminants. 62nd Minnesota Nutrition Conference & Minnesota Corn Growers Assn Technical Symposium: 182-192.
- Klotz, A., Mayer, J., Einspanier, R. 2002. Degradation and Possible Carry Over of Feed DNA Monitored in Pigs and Poultry. European Food Research and Technology. 214(4): 271-275.
- Masoero, F., Moschini, M., Rossi, F., Prandini, A., Pietri, A. 1999. Nutritive Value, Mycotoxin Contamination and In Vitro Rumen Fermentation of Normal and Genetically Modified Corn (Cry1A(b)) Grown in Northern Italy. Maydica. 44(3): 205-209.
- Munkvold, G., Glenn, B., Trick, H., Hartnell, G., Baldwin, R., Nafziger, E. 2000. Bt Corn Enhances Safety of Grain for Feed. Biotech In Brief. (Brief 11): 1-2.
- Munkvold, G., Hellmich, R., Rice, L. 1999. Comparison of Fumonisin Concentrations in Kernels of Transgenic Bt Maize Hybrids and Nontransgenic Hybrids. Plant Disease. 83(2): 130-138.
- Munkvold, G., Hellmich, R. 1999. Genetically Modified, Insect Resistant Corn: Implications for Disease Management. The American Phytopathological Society APSnet Plant Pathology On-Line. <http://www.scisoc.org/feature/BtCorn/Top.html>: 1-12.
- Munkvold, G., Hellmich, R., Showers, W. 1997. Reduced Fusarium Ear Rot and Symptomless Infection in Kernels of Maize Genetically Engineered for European Corn Borer Resistance. Phytopathology. 87(10): 1071-1077.
- Munkvold, G., Desjardins, A. 1997. Fumonisin in Maize: Can We Reduce Their Occurrence? Plant Disease. 81(6): 556-565.
- Owens, F., Soderlund, S. 2000. Specialty Grains for Ruminants. University of Minnesota: 61st Minnesota Nutrition Conference and Minnesota Soybean Research and Promotion Council Technical Symposium: 98-113.
- Pietri, A., Piva, G. 2000. Occurrence and Control of Mycotoxins in Maize Grown in Italy. Proceedings of the 6th International Feed Production Conference, Piacenza, 27-28 November 2000: 226-236.

Reuter, T., Aulrich, K., Flachowsky, G. 2001. Feeds from Genetically Modified Organism (GMO). Genetically Modified Crops and Co-Producers as Feeds for Livestock, International Symposium, Nitra, Slovak Republic, 19-20th September 2001: 31-36.

Schaafsma, A., Hooker, D., Baute, T., Illincic-Tamburic, L. 2002. Effect of Bt-Corn Hybrids on Deoxynivalenol Content in Grain at Harvest. Plant Disease. 86(10): 1123 - 1126.

**Other**

Brown, P., Wilson, K., Junker, Y., Nickson, T. 2003. Glyphosate Tolerant Canola Meal Is Equivalent to the Parental Line in Diets Fed to Rainbow Trout. *Journal of Agricultural and Food Chemistry*. 51(15): 4268-4272.

Flachowsky, G., Halle, I., Aulrich, K. 2005. Long Term Feeding of Bt Corn - A Ten-generation Study with Quails. *Archives of Animal Nutrition*. 59(6): 449-451.

Funke, T., Han, H., Healy-Fried, M., Fischer, M., Schonbrunn, E. 2006. Molecular Basis For The Herbicide Resistance Of Roundup Ready Crops. *PNAS*. 103(35): 13010-13015.

Glencross, B., Curnow, J., Hawkins, W., Kissil, G., Peterson, D. 2003. Evaluation of the Feed Value of a Transgenic Strain of the Narrow-leaf Lupin (*Lupinus angustifolius*) in the Diet of the Marine Fish, *Pagrus auratus*. *Aquaculture Nutrition*. 9: 197-206.

Hemre, G., Sanden, M., Bakke-McKeller, A., Sagstad, A., Krogdahl, A. 2005. Growth, Feed Utilization and Health of Atlantic Salmon *Salmo salar* L. Fed Genetically Modified Compared to Non-modified Commercial Hybrid Soybeans. *Aquaculture Nutrition*. 11(3): 157-167.

MacKenzie, S., Lamb, I., Schmidt, J., Deege, L., Morrisey, M., Harper, M., Layton, R., Prochaska, L., Sanders, C., Locke, M., Mattsson, J., Fuentes, A., Delaney, B. 2007. Thirteen Week Feeding Study with Transgenic Maize Grain Containing Event DAS-01507-1 In Sprague-Dawley Rats. *Food and Chemical Toxicology*. 45(4): 551-562.

Sanden, M., Berntssen, M., Krogdahl, H., McKellep, A. 2005. An Examination of the Intestinal Tract of Atlantic Salmon, *Salmo salar* L., Parr Fed Different Varieties of Soy and Maize. *Journal of Fish Diseases*. 28: 317-330.

Sanden, M., Bruce, I., Rahman, M., Hemre, G. 2004. The Fate of Transgenic Sequences Present in Genetically Modified Plant Products in Fish Feed, Investigating the Survival of GM Soybean DNA Fragments During Feeding Trials in Atlantic Salmon, *Salmo salar* L. *Aquaculture*. 237(1-4): 391-405.

Schroder, M., Poulsen, M., Wilcks, A., Kroghsbo, S., Miller, A., Frenzel, T., Danier, J., Rychlik, M., Emami, K., Gatehouse, A., Shu, Q., Engel, K., Altosaar, I., Knudsen, I. 2007. A 90-day Safety Study of Genetically Modified Rice Expressing Cry1Ab Protein (*Bacillus thuringiensis* Toxin) in Wistar Rats. *Food and Chemical Toxicology*. 45(3): 339-349.

Singh, M., Tiwari, D., Kumar A., Kumar, M. 2003. Effect of Feeding Transgenic Cottonseed vis-à-vis Non-transgenic Cottonseed on Haematobiochemical Constituents in Lactating Murrah Buffaloes. *Asian-Australian Journal of Animal Science*. 16(12): 1732-1737.

Soares, L., Lucas, A., Boaventura, G. 2005. Can Organic and Transgenic Soy be Used as a Substitute for Animal Protein by Rats. *Brazilian Journal of Medical and Biological Research*. 38(4): 583 - 586.



Williams, W., Windham, G., Buckley, P., Perkins, J. 2005. Southwestern Corn Borer Damage and Aflatoxin Accumulation in Conventional and Transgenic Corn Hybrids Field Crops Research. 91(2-3): 329 - 336.

## **ANALYSIS FOR DNA/PROTEIN –FROM ANIMALS FED BIOTECH CROPS**

### **Milk**

Aumaitre, A., Aulrich, K., Chesson, A., Flachowsky, G., Piva, G. 2002. New Feeds from Genetically Modified Plants - Substantial Equivalence, Nutritional Equivalence, Digestibility, and Safety for Animals and the Food Chain. *Livestock Production Science*. 74(3): 223-238.

Faust, M., Miller, L. 1997. Study Finds No Bt in Milk. *Iowa State University Integrated Crop Management Newsletter IC-478 (Special Livestock Edition)*: 1.

Klotz, A., Eispainer, R. 1998. Detection of "Novel-Feed" in Animals? Injury of Consumers of Meat and Milk is Not Expected. *Mais*. (3): 109-111.

Phipps, R., Jones, A.K., Tingey, A., Abeyasekera, S. 2005. Effect of Corn Silage from an Herbicide-tolerant Genetically Modified Variety on Milk Production and Absence of Transgenic DNA in Milk. *Journal of Dairy Science*. 88(8): 2870 - 2878.

Phipps, R., Deaville, E., Maddison, B., Sutton, J., Beever, D., Givens, D. 2004. Detection of Transgenic Protein and DNA in Bovine Milk and the Effect of Transgenes on Nutrient Digestion and Milk Production in Dairy Cows. *CEDAR Report for Food Standards Agency(Project FO1004)*: 1-67.

Phipps, R., Beever, D., Humphries, D. 2002. Detection of Transgenic DNA in Milk from Cows Receiving Herbicide Tolerant (CP4 EPSPS) Soyabean Meal. *Livestock Production Science*. 74(3): 269 - 273.

Phipps, R., Beever, D. 2001. The Search for Transgenic DNA in Bovine Milk. *Genetically Modified Crops and Co-Producers as Feeds for Livestock, International Symposium, Nitra, Slovak Republic, 19-20th September 2001*: 23-25.

Poms, R., Hochsteiner, W., Luger, K., Glossl, J., Foissy, H. 2003. Model Studies on the Detectability of Genetically Modified Feeds in Milk. *Journal of Food Protection*. 66(2): 304 - 310.

Yonemochi, C., Ikeda, T., Harada, C., Kusama, T., Hanazumi, M. 2005. Influence of Transgenic Corn -CBH 351, named Starlink- on Health Condition of Dairy Cows and Transfer of Cry9C Protein and Cry9C Gene to Milk, Blood, Liver and Muscle. *Animal Science Journal*. 74: 81-88.

## **Meat/Eggs**

2000. Genetically Modified Crops - Impact on Meat, Milk and Eggs. FASS - Federation of Animal Science Societies. 8-30-2000, <http://www.fass.org/fassfact.pdf>: 1-4.

Ash, J., Scheideler, S., Novak, C. 2000. The Fate of Genetically Modified Protein from Roundup Ready® Soybeans in the Laying Hen. Poultry Sciences. (Supplement 1): 26.

Aumaitre, A., Aulrich, K., Chesson, A., Flachowsky, G., Piva, G. 2002. New Feeds from Genetically Modified Plants - Substantial Equivalence, Nutritional Equivalence, Digestibility, and Safety for Animals and the Food Chain. Livestock Production Science. 74(3): 223-238.

Cromwell, G., Lindemann, M., Randolph, J., Stanisiewski, E., Hartnell, G. 2001. Soybean Meal from Roundup Ready® or Conventional Soybeans in Diets for Growing-Finishing Pigs. Journal of Animal Science. 79: 1318.

Deaville, E., Maddison, B. 2005. Detection of Transgenic and Endogenous Plant DNA Fragments in the Blood, Tissues, and Digesta of Broilers. Journal of Agricultural and Food Chemistry. 53(26): 10268-10275.

Jennings, J., Whetsell, A., Nicholas, N., Sweeney, M., Klaften, M., Kays, S., Hartnell, G., Lirette, R., Glenn, K. 2003. Determining Whether Transgenic or Endogenous Plant DNA is Detectable in Dairy Milk or Beef Organs. Bulletin of the International Dairy Federation. 383/2003 144(2): 41-46.

Jennings, J., Albee, L., Kolwyck, D., Surber, J., Taylor, M., Hartnell, G., Lirette, R., Glenn, K. 2003. Attempts to Detect Transgenic and Endogenous Plant DNA and Transgenic Protein in Muscle from Broilers Fed YieldGard® Corn Borer Corn. Poultry Science. 82: 371-380.

Khumnirdpetch, V., Intarachote, U., Treemanee, S., Tragoonroong, S., Thummabood, S. 2001. Detection of GMOs in the Broilers that Utilized Genetically Modified Soybean Meals as a Feed Ingredient. Plant and Animal Genome IX Conf., San Diego, CA (Poster 585); 13-17 Jan 2001.

McAllan, A. 1982. The Fate of Nucleic Acids in Ruminants. Proceedings of the Nutrition Society. 41: 309-317.

McAllan, A. 1980. The Degradation of Nucleic Acids in, and the Removal of Breakdown Products from the Small Intestines of Steers. British Journal of Nutrition: 99-112.

Reuter, T., Aulrich, K. 2003. Investigations on Genetically Modified Maize - Bt-maize - in Pig Nutrition - Fate of Feed-Ingested Foreign DNA in Pig Bodies. European Food Research and Technology. 216(3): 185 - 192.

Reuter, T., Aulrich, K., Berk, A., Flachowsky, G. 2001. Nutritional Evaluation of Bt-Corn in Pigs. Journal of Animal Science. 79: 1073.

Sanden, M., Bruce, I., Rahman, M., Hemre, G. 2004. The Fate of Transgenic Sequences Present in Genetically Modified Plant Products in Fish Feed, Investigating the Survival of GM Soybean DNA Fragments During Feeding Trials in Atlantic Salmon, *Salmo salar* L. *Aquaculture*. 237(1-4): 391 – 405.

## **Other**

Artim, L., Charlton, S., Dana, G., Faust, M., Glenn, K., Hartnell, G., Hunst, P., Jennings, J., Shillito, R. 2001. Detection of DNA and Protein in Farm Animal Products Fed Biotech Crops. Int'l Symposium Proceedings Addendum - Genetically Modified Crops and Co-Products as Feeds for Livestock, Nitra, Slovak Republic: 45.

Aulrich, K., Flachowsky, G. 2001. Assessment of Novel Feeds in Animal Nutrition. Journal of Animal Science. 79: 477.

Beever, D., Kemp, C. 2000. Safety Issues Associated With the DNA in Animal Feed Derived from Genetically Modified Crops. A Review of Scientific and Regulatory Procedures. Nutrition Abstracts and Reviews Series B: Livestock Feeds and Feeding. 70 (3): 175-182.

Doerfler, W. 2000. Consequences of Foreign DNA Integration and Persistence. Foreign DNA in Mammalian Systems. Wiley-VCH Verlag GmbH.I. Chapter 10: 129-146.

Doerfler, W. 2000. Uptake of Foreign DNA from the Environment: the Gastrointestinal Tract and the Placenta as Portals of Entry. Foreign DNA in Mammalian Systems. Wiley-VCH Verlag GmbH.I. Chapter 11: 147-157.

Doerfler, W. 2000. Relevance In Applied Molecular Biology: An Overview. Foreign DNA in Mammalian Systems. Wiley-VCH Verlag GmbH.I. Chapter 12: 159-164.

Doerfler, W. 2000. Future Research. Foreign DNA in Mammalian Systems. Wiley-VCH Verlag GmbH.I. Chapter 13: 165-167.

Doerfler, W., Schubbert, R., Heller, H., Kammer, C., Hilger-Eversheim, K., Knoblauch, M., Remus, R. 1997. Integration of Foreign DNA and Its Consequences in Mammalian Systems. Tibtech. 15: 297-301.

Duggan, P., Chambers, P., Heritage, J., Forbes, J. 2003. Fate of Genetically Modified Maize DNA in the Oral Cavity and Rumen of Sheep. British Journal of Nutrition. 89(2): 159 - 166.

Edwards, H., Douglas, M., Parsons, C., Baker, D.M. 2000. Protein and Energy Evaluation of Soy Bean Meals Processed from Genetically Modified High-Protein Soybeans. Poultry Science. 79: 525-527.

Einspanier, R., Klotz, A., Kraft, J., Aulrich, K., Poser, R., Schwagele, F., Jahreis, G., Flachowsky, G. 2001. The Fate of Forage Plant DNA in Farm Animals: A Collaborative Case-Study Investigating Cattle and Chicken Fed Recombinant Plant Material. European Food Research Technology. 212 (2): 129-143.

Forbes, J.M., Blair, G.E., Chiter, A., Perks, S. 2000. Effect of Feed Processing Conditions on DNA Fragmentation. U. K. MAFF Report (CS0116): 4-26.

Gawienowski, M., Eckoff, S., Yang, P., Rayapati, P., Binder, T., Briskin, D. 1999. Fate of Maize DNA During Steeping, Wet-Milling, and Processing. *Cereal Chemistry*. 76(3): 371-374.

Glenn, K. 2001. Is DNA or Protein from Feed Detected In Livestock Products? *Journal of Animal Science*. 79: 230.

Hartnell, G. 2001. Futuristic Aspects of Biotech Food for Livestock and Humans. Genetically Modified Crops and Co-Producers as Feeds for Livestock, International Symposium, Nitra, Slovak Republic, 19-20th September 2001: 51-63.

Hohlweg, U., Doerfler, W. 2001. On the Fate of Plant or Other Foreign Genes Upon the Uptake in Food or After Intramuscular Injection in Mice. *Molecular Genetic Genomics*. 265(2): 225-233.

Jennings, J., Albee, L., Kolwyck, D., Surber, J., Taylor, M., Hartnell, G., Lirette, R., Glenn, K. 2003. Attempts to Detect Transgenic and Endogenous Plant DNA and Transgenic Protein in Muscle from Broilers Fed YieldGard® Corn Borer Corn. *Poultry Science*. 82: 371-380.

Reuter, T., Aulrich, K., Flachowsky, G. 2001. Feeds from Genetically Modified Organism (GMO). Proceedings: International Symposium on Genetically Modified Crops and Co-products as Feeds for Livestock, pages 31-36. September, Nitra, Slovak Republic.

Schubbert, R., Hohlweg, U., Renz, D. and Doerfler, W. 1998. On the Fate of Orally Ingested Foreign DNA in Mice: Chromosomal Association and Placental Transmission to the Fetus. *Molecular and General Genetics*. 259: 569-576.

Schubbert, R., Renz, D., Schmitz, B., Doerfler, W. 1997. Foreign (M13) DNA Ingested by Mice Reaches Peripheral Leukocytes, Spleen, and Liver Via the Intestinal Wall Mucosa and Can be Covalently Linked to Mouse DNA. *Proceedings of the National Academies of Science (USA)*: 961-966.

Schubbert, R., Lettmann, C., Doerfler, W. 1994. Ingested Foreign (phage M13) DNA Survives Transiently in the Gastrointestinal Tract and Enters the Bloodstream of Mice. *Molecular and General Genetics*. 242: 495-504.

Spencer, D., White, C., Higgins, T. 2000. Benefits and Risks of Genetic Modification of Animal Feeds. *Proceedings of the Nutrition Society of Australia*. 24: 1 - 11.

## ANTIBIOTIC RESISTANCE/ SELECTABLE MARKERS

- Berche, P. 2000. Transgenic plants and resistance to antibiotics. (Les plantes transgéniques et la résistance aux antibiotiques.) Etat actuel des connaissances sur les "organismes génétiquement modifiés": journée interacadémique du 26 avril 2000, organisée au Ministère de l'Agriculture et de la Pêche, France. Comptes Rendus de l'Académie d'Agriculture de France. 86(6): 103-110.
- Bertolla, F., Kay, E., Simonet, P. 2000. Potential Dissemination of Antibiotic Resistance Genes from Transgenic Plants to Microorganisms. Infection Control and Hospital Epidemiology. 21(6): 390-393.
- Bertolla, F., Simonet, P. 1999. Horizontal Gene Transfers in the Environment: Natural Transformation as a Putative Process for Gene Transfers Between Transgenic Plants and Microorganisms. Research in Microbiology. 150(6): 375-384.
- Chambers, P., Duggan, P., Heritage, J., Forbes, J. 2002. The Fate of Antibiotic Resistance Marker Genes in Transgenic Plant Feed Material Fed to Chickens. Journal of Antimicrobial Chemotherapy. 49(1): 161-164.
- Chiter, A., Forbes, J., Blair, G. 2000. DNA Stability in Plant Tissues: Implications for the Possible Transfer of Genes from Genetically Modified Food. FEBS (Federation of European Biochemical Societies) Letters. 481(2): 164-168.
- Courvalin P. 1998. Plantes Transgéniques et Antibiotiques. La Recherche. 309: 36-41.
- Droge, M., Puhler, A., Selbitschka, W. 1998. Horizontal Gene Transfer as a Biosafety Issue: A Natural Phenomenon of Public Concern. Journal of Biotechnology. 64: 75-90.
- FDA (Food and Drug Administration). 1994. Secondary Direct Food Additives Permitted in Food for Human Consumption; Food Additives Permitted in Feed and Drinking Water of Animals; Amino Glycoside 3'-Phosphotransferase. Federal Register. 59: 26700-26711.
- Flavell, R., Dart, E., Fuchs, R., Fraley, R. 1992. Selectable Marker Genes: Safe For Plants? Bio/Technology. 10: 141-144.
- Forbes, J., Heritage, J. 2002. Assessment of the Risks of Transferring Antibiotic Resistance Determinants from Transgenic Plants to Micro-organisms. Technical Report on the Food Standards Agency Project G01010: 1-7.  
<http://www.foodstandards.gov.uk/multimedia/pdfs/gmleedsfinalreport.pdf>
- Gay, P., Gillespie, S. 2005. Antibiotic Resistance Markers In Genetically Modified Plants: A Risk to Human Health. The Lancet. 5: 637-646.
- Gebhard, F., Smalla, K. 1998. Transformation of Acinetobacter sp. Strain BD413 by Transgenic Sugar Beet DNA. Applied and Environmental Microbiology. 64(4): 1550-1554.

Goldstein, D., Tinland, B., Gilbertson, L., Staub, J., Bannon, G., Goodman, R., McCoy, R., Silvanovich, A. 2005. A Review - Human Safety and Genetically Modified Plants - A Review of Antibiotic Resistance Markers and Future Transformation Selection Technologies. *Journal of Applied Microbiology*. 99: 7-23.

Hare, P., Chua, N. 2002. Excision of Selectable Marker Genes from Transgenic Plants. *Nature Biotechnology*. 20(6): 575-580.

Jelenic, S. 2003. Controversy Associated with the Common Component of Most Transgenic Plants - Kanamycin Resistance Marker Gene. *Food Technology Biotechnology*. 41(2): 183-190.

Karenlampi, S. 1996. Health Effects of Marker Genes in Genetically Engineered Food Plants. Department of Biochemistry and Biotechnology: Nordic Council of Ministers. 530: 1-70.

Koenig, A., Editors: Fairbairn, C., Scoles, G., McHughen, A. 2000. Development and Biosafety Aspects of Transgene Excision Methods. *Proceedings of the 6th International Symposium on the Biosafety of Genetically Modified Organisms*: 155-170.

Kok, E., Noteborn, H., Kuiper, H. 1994. Food Safety Assessment of Marker Genes in Transgenic Crops. *Trends in Food Science and Technology*. 5(9): 294-298.

Kuiper, H., Noteborn, H., Peijnenburg, A. 1999. Adequacy of Methods for Testing the Safety of Genetically Modified Foods. *Lancet*. 354(9187): 1315-1316.

Malik, V., Editors: Shantharam, S., Montgomery, J. 1999. Marker Gene Controversy in Transgenic Plants. *Biotechnology, Biosafety, and Biodiversity: Scientific and Ethical Issues for Sustainable Development*: 65-90.

Miki, B., McHugh, S. 2004. Selectable Marker Genes in Transgenic Plants - Applications, Alternatives and Biosafety. *Journal of Biotechnology*. 107(3): 193-232.

Nap, J., Bijvoet, J., Stiekema, W. 1992. Biosafety of Kanamycin - Resistant Transgenic Plants. *Transgenic Research*. 1: 239-249.

Nielsen, K., Bones, A., Smalla, K., van Elsas, J. 1998. Horizontal Gene Transfer from Transgenic Plants to Terrestrial Bacteria - A Rare Event? *FEMS (Federation of European Microbiological Societies) Microbiology Reviews*. 22: 79-103.

Nielsen, K., Gebhard, F., Smalla, K., Bones, A., van Elsas, J. 1997. Evaluation of Possible Horizontal Gene Transfer From Transgenic Plants to the Soil Bacterium *Acinetobacter Canloaceticus* BD413. *Theoretical and Applied Genetics*. 95(5/6): 815-821.

Prins, T., Zadoks, J. 1994. Horizontal Gene Transfer in Plants, a Biohazard? Outcome of a Literature Review. *Euphytica*. 76. Issue 1/2: 133-138.

Ramessar, K., Peremarti, A., Gomez-Galera, S., Naqvi, S., Moralejo, M., Munoz, P., Capell, T., Christou, P. 2007. Biosafety and Risk Assessment Framework for



Selectable Marker Genes in Transgenic Crop Plants: A Case of the Science Not Supporting the Politics. *Transgenic Research*. 16(3): 261-280.

Schluter, K., Futterer, J., Potrykus, I. 1995. Horizontal Gene-Transfer from a Transgenic Potato Line to a Bacterial Pathogen (*Erwinia-chrysanthemi*) Occurs, if at all - at an Extremely-Low-Frequency. *Bio/Technology*. 13(10): 1094-1098.

Shin, D., Park, S., Woo, G., Kim, H., Park, K. 2004. Case Study for Natural Gene Transfer from Genetically Modified Food to Food Microorganisms. *Food Science and Technology*. 13(3): 342-346.

Smalla, K., Borin, S., Heuer, H., Gebhard, F., van Elsas, J., Nielsen, K.; Editors: Fairbairn, C., Scoles, G., McHughen, A. 2000. Horizontal Transfer of Antibiotic Resistance Genes From Transgenic Plants to Bacteria: Are There New Data to Fuel the Debate? *Proceedings of the 6th International Symposium on The Biosafety of Genetically Modified Organisms*: 146-154.

Smalla, K., Gebhard, F., Heuer, H. 2000. Antibiotic Resistance Genes as Markers in Transgenic Plants-Risk of Horizontal Gene Transfer. *Nachrichtenblatt des Deutschen Pflanzenschutzdienstes*. 52(No. 3): 62-68.

Smalla, K., van Overbeek, L. , Pukall, R. , van Elsas, J. 1993. Prevalence of NPTII and Tn5 in Kanamycin Resistant Bacteria From Different Environments. *FEMS (Federation of European Microbiological Societies) Microbiology Ecology*. 13: 4758.

Syvanen, M. 1999. In Search Of Horizontal Gene Transfer. *Nature Biotechnology*. 17: 833.

Witte, W. 1998. Medical Consequences of Antibiotic Use in Agriculture. *Science*. 279(5353): 996-997.

## **ENVIRONMENTAL SAFETY**

### **Environmental Safety Assessment**

1987. Introduction of Recombinant DNA-Engineered Organisms into the Environment: Key Issues. National Research Council. 1987: 6-24.

1989. Field Testing Genetically Modified Organisms: Framework for Decisions. National Research Council. Publisher: National Academy Press: 1-170.

2001. Bt-Maize - Case Study No. II. CEQ/OSTP Assessment: Case Studies of Environment Regulation for Biotechnology. January, 2001: 1-70.

2001. Herbicide-Tolerant Soybean - Case Study No. III. CEQ/OSTP Assessment: Case Studies of Environment Regulation for Biotechnology. January, 2001: 1-57.

2003. Introduction - The Farm Scale Evaluations. Philosophical Transactions Royal Society London. 358: 1777-1778.

Addison, S. , Farrell, T. , Roberts, G. , Rogers, D. 2007. Roadside Surveys Support Predictions of Negligible Naturalisation Potential for Cotton (*Gossypium hirsutum*) in North-east Australia. Weed Research. 47: 192-201.

Ajisaka, H., Maruta, Y., Kumashiro, T.; Editors: Jones, D. D. 1994. Evaluation of Transgenic Rice Carrying an Antisense Glutelin Gene in an Isolated Field. Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms. Publisher: University of California, Oakland: 291-298.

Akçakaya, H., Ginzburg, L.; Editor: Ginzburg, L. R. 1991. Ecological Considerations in EPA's Review for Field Tests of Genetically Engineered Organisms. Assessing Ecological Risks of Biotechnology. Publisher: Butterworth-Heinemann. Chapter 13: 267-287.

Andow, D., Birch, A., Dusi, A., Fontes, E., Hilbeck, A., Lang, A., Lovei, G., Pires, C., Sujii, E., Undersood, E., Wheatley, R. 2006. Non-Target and Biodiversity Risk Assessment for Genetically Modified (GM) Crops. The 9th International Symposium on the Biosafety of Genetically Modified Organisms, Jeju Island, Korea, 24-29 September, 2006: Biosafety Research and Environmental Risk Assessment. Pages 70-75.

Barton, J., Dracup, M. 2000. The Privatization of Food: Corporate Control of Biotechnology. Agronomy Journal. 92(4): 803-806.

Bazin, M., Lynch, J. 1995. Environmental Gene Release. Models, Experiments and Risk Assessment. Chapman & Hall, New York. 166 pages.

Bennett, R., Phipps, R., Strange, A., Grey, P. 2004. Environmental and Human Health Impacts of Growing Genetically Modified Herbicide-tolerant Sugar Beet - A Life-Cycle Assessment. Plant Biotechnology Journal. 2(4): 273-278.

Bergelson, J., Winterer, J., Purrington, C. 1999. Ecological Impacts of Transgenic Crops. Applied Plant Biotechnology. 23(8): 325-343.

Brooks, D., Bohan, D., Champion, G., Haughton, A., Hawes, C., Heard, M., Clark, S., Dewar, A., Firbank, L., Perry, J., Rothery, P., Scott, R., Woiwod, I., Birchall, C., Skellern, M., Walker, J., Baker, P., Bell, D., Browne, E., Dewar, A., Fairfax, C., Garner, B., Haylock, L., Horne, S., Hulmes, S., Mason, N., Norton, L., Nuttall, P., Randle, Z., Rossall, M., Sands, R., Singer, E., Walker, M. 2003. Invertebrate Responses to the Management of Genetically Modified Herbicide-tolerant and Conventional Spring Crops. I. Soil-surface-active Invertebrates. The Farm Scale Evaluations. Philosophical Transactions Royal Society London. 358: 1847-1862.

Cohen, M., Editors: Shantharam, S., Montgomery, J. 1999. Environmental Impact of Crops Transformed with Genes from Bacillus thuringiensis (Bt) for Insect Resistance. Biotechnology, Biosafety, and Biodiversity: Scientific And Ethical Issues For Sustainable Development: 31-40.

Conner, A. 1994. Biosafety Assessment of Transgenic Potatoes: Environmental Monitoring and Food Safety Evaluation. IN: Proceedings of the 3<sup>rd</sup> International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, November 13-16, 1994, Monterey, CA. Publisher: University of California: 363-369.

Conner, A., Glare, T., Nap, J. 2003. The Release of Genetically Modified Crops into the Environment. Part II - Overview of Ecological Risk Assessment. The Plant Journal. 33: 19-46.

Crawley, M. 1990. The Ecology of Genetically Engineered Organisms - Assessing the Environmental Risks. Introduction of Genetically Modified Organisms into the Environment. Chapter 12: 133-150.

Crawley, M. 1992. The Comparative Ecology of Transgenic and Conventional Crops. Second International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11-14, 1992, Goslar, Germany: 43-52.

Dale, P. 2001. Environmental Impact of Biotech Crops. Journal of Animal Science. 79: Supplement E: E144-E147.

Dale, P. 2002. The Environmental Impact of Genetically Modified (GM) Crops - A Review. Journal of Agricultural Science. 138: 245 - 248.

Eastick, R., Hearnden, M. 2006. Potential for Weediness of Bt Cotton in Northern Australia. Weed Science. 54: 1142-1151.

Fitt, G. Editor: Jones, D. 1994. Field Evaluation of Transgenic Cotton in Australia: Environmental Considerations and Consequences of Expanding Trail Size. Proceedings of the 3<sup>rd</sup> International Symposium on the Biosafety Results of Field Tests Of Genetically Modified Plants and Microorganisms, November 13-16, 1994, Monterey, California United States. Publisher: The University of California - Oakland: 37-47.

Fitt, G., Mares, C., Llewellyn, D. 1994. Field Evaluation and Potential Ecological Impact of Transgenic Cottons (*Gossypium Hirsutum*) in Australia. Biocontrol Science and Technology. 4(4): 535-548.

Garcia-Alonso, M., Jacobs, E., Raybould, A., Nickson, T., Sowig, P., Willekens, H., Van der Kouwe, P., Layton, R., Amijee, F., Fuentes, A., Tencalla, F. 2006. A Tiered System for Assessing the Risk of Genetically Modified Plants to Non-target Organisms. *Environmental Biosafety Research*. 5: 57-65.

Gonsalves, D., Fuchs, M., Klas, F., Tennant, P.; Editors: Jones, D. D. 1994. Field Assessment of Risks When Using Transgenic Papayas, Cucurbits, and Tomatoes Expressing Viral Coat Protein Genes. *Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms*. Publisher: University of California, Oakland: 117-127.

Holla, R.; Editor: Ginzburg, L. 1991. Ecological Risk Assessment and European Community Biotechnology Regulation. IN: *Assessing Ecological Risks of Biotechnology*. Publisher: Butterworth-Heinemann. Chapter 15: 313-324.

Haughton, A.J., Champion, G.T., Hawes, C., Heard, M.S., Brooks, D.R., Bohan, D.A., Clark, S.J., Dewar, A.M., Firbank, L.G., Osborne, J.L., Perry, J.N., Rothery, P., Roy, D.B., Scott, R.J., Woiwod, I.P., Birchall, C., Skellern, M.P., Walker, J.H., Baker, P., Browne, E.L., Dewar, A.J., Garner, B.H., Haylock, L.A., Horne, S.L., Mason, N.S., Sands, R.J., Walker, M.J. 2003. Invertebrate Responses to the Management of Genetically Modified Herbicide-tolerant and Conventional Spring Crops. II. Within-field Epigeal and Aerial Arthropods. *The Farm Scale Evaluations. Philosophical Transactions Royal Society London*. 385: 1863-1877.

Hawes, C., Haughton, A., Osborne, J., Roy, D., Clark, S. 2003. Responses of Plants and Invertebrate Trophic Groups to Contrasting Herbicide Regimes in the Farm Scale Evaluations of Genetically Modified Herbicide-tolerant Crops. *Philosophical Transactions Royal Society London*. 358: 1899-1913.

Heard, M.S., Hawes, C., Champion, G.T., Clark, S.J., Firbank, L.G., Haughton, A.J., Parish, A.M., Perry, J.N., Rothery, P., Scott, R.J., Skellern, M.P., Squire, G.R., Hill, M.O. 2003. Weeds in Fields with Contrasting Conventional and Genetically Modified Herbicide-tolerant Crops. II. Effects on Individual Species. *Philosophical Transactions Royal Society London*. 358: 1833-1846.

Heard, M.S., Hawes, C., Champion, G.T., Clark, S.J., Firbank, L.G., Haughton, A.J., Parish, A.M., Perry, J.N., Rothery, P., Scott, R.J., Skellern, M.P., Squire, G.R., Hill, M.O. 2003. Weeds in Fields with Contrasting Conventional and Genetically Modified Herbicide-tolerant Crops. I. Effects on Abundance and Diversity. *The Farm Scale Evaluations. Philosophical Transactions Royal Society London*. 358: 1819-1832.

Horak, M., Rosenbaum, E., Woodrum, C., Martens, A., Mery, R., Cothren, J., Burns, J., Nickson, T., Pester, T., Jiang, C., Hart, J., Sammons, B. 2007. Characterization of Roundup Ready Flex® Cotton, -MON 88913-, for Use in Ecological Risk Assessment Evaluation of Seed Germination, Vegetative and Reproductive Growth and Ecological Interactions. *Crop Science*. 47: 268-277.

Hull, R. 1992. Field Release of Transgenic Plants and Microorganisms: The Past, the Present and the Future. *Second International Symposium on the Biosafety Results of*

- Field Tests of Genetically Modified Plants and Microorganisms, May 11-14, 1992, Goslar, Germany: 1-6.
- Kleter, G., Peijnenburg, A., Aarts, H. 2005. Health Considerations Regarding Horizontal Transfer of Microbial Transgenes Present in Genetically Modified Crops. *Journal of Biomedicine and Biotechnology*. 4: 326-352.
- Klinger, T. 1998. Biosafety Assessment of Genetically Engineered Organisms in the Environment. *Trends in Ecology and Evolution*. 13: 5-6.
- Martin, R. 1992. Is Heterologous Encapsidation a Problem With Plants Transgenic for Potato Leafroll Virus Coat Protein Gene? Second International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11-14, 1992, Goslar, Germany: 66-69.
- McHughen, A., Rowland, G., Holm, F.; Editors: Jones, D. 1994. Flax Follies: Commercialization of a Transgenic Cultivar. *Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms*. Publisher: University of California, Oakland: 263-267.
- McKee, M., Fernandez, S., Nickson, T., Head, G. 2003. An Assessment of the Environmental Impact of Genetically Modified Crops in the US. *The BCPC International Congress - Crop Science and Technology 2003*. 10-12 November: 1075-1084.
- Nap, J., Metz, P., Escaler, M., Conner, A. 2003. The Release of Genetically Modified Crops into the Environment. Part I - Overview of Ecological Risk Assessment. *The Plant Journal*. 33: 19-46.
- Nickson, T. 2005. Environmental Release of Living Modified Organisms: Current Approaches and Case Studies. *Tsitol Genet*. 39(3): 37-42.
- Nickson, T., Head, G. 2000. Environmental Monitoring Of Genetically Modified Crops. *Journal of Environmental Monitoring*. 1(6): 101N-105N.
- Nickson, T., Fuchs, R. 1994. Environmental and Regulatory Aspects of Using Genetically-Modified Plants in the Field. *Molecular Biology in Crop Protection*. Chapter 10: 246-262.
- Phipps, R., Park, J. 2002. Environmental Benefits of Genetically Modified Crops - Global and European Perspectives on their Ability to Reduce Pesticide Use. *Journal of Animal and Food Sciences*. 11: 1-18.
- Pool, R., Esnayra, J. 2001. Ecological Monitoring of Genetically Modified Crops. *National Research Council*: 1-58.
- Raybould, A., Cooper, I. 2006. Tiered Tests to Assess the Environmental Risk of Fitness Changes in Hybrids Between Transgenic Crops and Wild Relatives: The Example of Virus Resistant Brassica napus. *Environmental Biosafety Research*. 4: 127-140.

Rogers, D., Reid, R., Rogers, J., Addison, S. 2007. Prediction of the Naturalisation Potential and Weediness Risk of Transgenic Cotton in Australia. *Agriculture Ecosystems and Environment*. 119: 177-189.

Rogul, M., Levin, M.; Editor: Ginzburg, L. 1991. Regulation of Biotechnology by the Environmental Protection Agency. IN: *Assessing Ecological Risks of Biotechnology*. Publisher: Butterworth-Heinemann. Chapter 12: 233-265.

Romeis, J., Bartsch, D., Bigler, F., Candolfi, M., Gielkens, M., Hartley, S., Hellmich, R., Huesing, J., Jepson, P., Layton, R., Quemada, H., Raybould, A., Rose, R., Schiemann, J., Sears, M., Shelton, A., Sweet, J., Vaituzis, Z., Wolt, J. 2006. Moving Through the Tiered and Methodological Framework for Non-Target Arthropod Risk Assessment of Transgenic Insecticidal Crops. The 9th International Symposium on the Biosafety of Genetically Modified Organisms, Jeju Island, Korea, 24-29 September, 2006: *Biosafety Research and Environmental Risk Assessment*. Published by International Society for Biosafety Research, Saskatoon, Canada. Pages 64-69.

Roy, D., Bohan, D., Haughton, A., Hill, M., Osborne, J., Clark, S., Perry, J., Rothery, P., Scott, R., Brooks, D., Champion, G., Hawes, C., Heard, M., Firbank, L. 2003. Invertebrates and Vegetation of Field Margins Adjacent to Crops Subject to Contrasting Herbicide Regimes in the Farm Scale Evaluations of Genetically Modified Herbicide-tolerant Crops. *Philosophical Transaction Royal Society London*. 358: 1879-189.

Saat, T., de Laat, A. 1992. Behavior of Engineered vs. Non-engineered Plants in the Environment: Is there a Difference? Second International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11-14, 1992 Goslar, Germany: 31-36.

Sagoff, M. 1991. On Making Nature Safe for Biotechnology. IN: *Assessing Ecological Risks of Biotechnology*. L. Ginzburg, Eds. Publisher: Butterworth-Heinemann. Chapter 17: 341-365.

Sehnal, F., Habustova, O., Spitzer, L., Hussein, H., Ruzicka, V., Romeis, J., Bigler, F. 2004. A Biannual Study on the Environmental Impact Of Bt Maize. *Bulletin OILB/SROP*. Proceedings of the Meeting of the IOBC/WPRS Working Group 'GMOs in Integrated Production', entitled Ecological Impact of Genetically Modified Organisms held in Prague, Czech Republic, 26-29 November 2003. 27(3): 147 - 160.

Sharma, H., Ortiz, R. 2000. Transgenics, Pest Management, and the Environment. *Current Science*. 79(4): 421-437.

Squire, G.R., Brooks, D.R., Bohan, D.A., Champion, G.T., Daniels, R.E., Haughton, A.J., Hawes, C., Heard, M.S., Hill, M.O., May, M.J., Osborne, J.L., Perry, J.N., Roy, D.B., Woiwod, I.P., Firbank, L.G. 2003. On the Rationale and Interpretation of the Farm Scale Evaluations of Genetically Modified Herbicide-tolerant Crops. *Philosophical Transactions Royal Society London*. 358: 1779-1799.

Sweet, J., Simpson, E., Law, J., Lutman, P., Berry, K., Payner, R., Champion, G., May, M., Walker, K., Wightman, P., Lainsbury, M. 2004. Botanical and Rotational Implications of Genetically Modified Herbicide Tolerance in Winter Oilseed Rape and Sugar Beet -BRIGHT Project No 353: 1-40.

Tepfer, M. 2002. Risk Assessment of Virus-resistant Transgenic Plants. Annual Review of Phytopathology. 40: 467 - 491.

Thrall, A., Goldstein, R.; Editor: Ginzburg, L. 1991. Ecological Risk Analysis of Biotechnological Waste Decontamination. Assessing Ecological Risks of Biotechnology. Publisher: Butterworth-Heinemann. Chapter 16: 325-339.

Walker, R., Booth, E., Whytock, G., Walker, K.C. 2004. Volunteer Potential of Genetically Modified Oilseed Rape with Altered Fatty Acid Content. Agriculture, Ecosystems and Environment. 104 (3): 653 - 661.

Weber, W., Bringezu, T., Broer, I., Erder, J., Holz, F. 2007. Coexistence Between GM and Non-GM Maize Crops - Tested in 2004 at the Field Scale Level (Erprobungsanbau 2004). Journal of Agronomy and Crop Science. 193: 79-92.

Wolfenbarger, L., Phifer, P. 2000. The Ecological Risks and Benefits of Genetically Engineered Plants. Science. 290: 2088-2093.

Yahiro, Y., Kimura, Y., Hayakawa, T.; Editors: Jones, D. 1993. Biosafety Results of Transgenic Rice Plants Expressing Rice Stripe Virus – Coat Protein Gene. Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms. Publisher: UC - Oakland: 23-36.

Zhou, R., Zhang, Z., Wu, Q., Fang, R., Mang, K., Tian, Y., Wang, G.; Editors: Jones, D. D. 1994. Large-Scale Performance of Transgenic Tobacco Plants Resistant to Both Tobacco Mosaic Virus and Cucumber Mosaic Virus. Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms. Publisher: University of California, Oakland: 49-55.

Zipf, A., Rajasekaran, K. 2003. Ecological Impact of Bt Cotton. Journal of New Seeds. 5(2/3): 115-135.

## **Gene and Pollen Flow**

2002. Going with the Flow. *Nature Biotechnology*. 20(6): 527.
- Abbott R. 1994a. Ecological Risks of Transgenic Crops. *TREE*. 9(8): 280-281.
- Abbott R. 1994b. Reply to Thacker J.R.M. Transgenic plants. *TREE*. 9: 486.
- Adam, D. 2003. Transgenic Crop Trial's Gene Flow Turns Weeds into Wimps. *Nature*. 421: 462.
- Adler, L., Wikler, K., Wyndham, D., Linder, C., Schmitt, J. 1993. Potential for Persistence of Genes Escaped From Canola: Germination Cues in Crop, Wild, and Crop-Wild Hybrid Brassica rapa. *Functional Ecology*. 7: 736-745.
- Ahl Goy, P., Duesing, J. 1996. Assessing the Environmental Impact of Gene Transfer to Wild Relatives. *Biotechnology*. 14, January: 3940.
- Ahl Goy, P., Duesing, J. 1995. From Plots to Plots: Genetically Modified Plants on Trial. *Biotechnology*. 13, May: 454-458.
- Ahl Goy, P., Chasseray, E., Duesing, J. 1994. Field Trials of Transgenic Plants: An Overview. *AgroIndustry Hitech*. March/April: 1015.
- Alibert, B., Sellier, H., Souvire, A. 2005. A Combined Method to Study Gene Flow from Cultivated Sugar Beet to Ruderal Beets in the Glasshouse and Open Field. *European Journal of Agronomy*. 23: 195-208.
- Ammann, K., Jacot, Y., Mazyad, P., Rufener, P. 1996. Field Release of Transgenic Crops in Switzerland- An Ecological Risk Assessment of Vertical Gene Flow. *Gentechnisch Veränderte Krankheitsund Schadlingsresistente Nutzpflanzen*. 1. Chapter 3: 1-157.
- Ammann, K. 1995. Die ökologischen Risiken der Gentechnologie und wie wir damit umgehen können. IN: Behrens, M., S.MeyerStrumberg und G.Simonis (Hrsg), *Gentechnik und Nahrungsmittelindustrie. Mensch und Technik, Sozialverträgliche Technikgestaltung*: 177-190.
- Ammann, K. 1995. Gentechnisch veränderte Kulturpflanzen in der Umwelt: Chancen und Probleme Die Suche nach gangbaren Wegen. IN: *Gentechnik und Ernährung*. Erbersdobler H.F., Hammes W. and Jany K.D., *Wissenschaftliche Verlagsgesellschaft mbH Stuttgart*: 161-195.
- Ammann, K., Felber F., Keller, B. [Senften] J., Jacot, Y., Kupfer, Ph., Rufener [Al Mazyad], P., Savova, D. 1994. Dynamic Biogeography and Natural Hybridization of Selected Weedy Species in Switzerland. Symposium "Gene Transfer: Are Wild Species in Danger?", Le Louverain, Switzerland, Nov.1994. *Environmental Documentation, Federal Office of Environment, Forests and Landscape (FOEFL)*. 12: 36-39.
- Arnaud, J., Viard, F., Delescluse, M., Cuguen, J. 2003. Evidence for Gene Flow via Seed Dispersal from Crop to Wild Relatives in Beta vulgaris 0 Chenopodiaceae -



- Consequences for the Release of Genetically Modified Crop Species with Weedy Lineages. *Proceedings Royal Society of London - Series B - Biological Sciences*. 270(1524): 1565-1571.
- Arriola, P., Ellstrand, N. 1997. Fitness of Interspecific Hybrids in the Genus *Sorghum*: Persistence of Crop Genes in Wild Populations. *Ecological Applications*. 7: 512-518.
- Arriola, P., Ellstrand, N. 1996. Crop-to-Weed Gene Flow in the Genus *Sorghum* (Poaceae): Spontaneous Interspecific Hybridization Between Johnsongrass, *Sorghum halepense*, and Crop *Sorghum*, *S. bicolor*. *American Journal of Botany*. 83: 1153-1160.
- Baltazar, B., de Jesus Sanchez-Gonzalez, J., de la Cruz-Larios, L., Schoper, J. 2006. Pollination Between Maize and Teosinte: An Important Determinant of Gene Flow in Mexico. *Theoretical and Applied Genetics TAG*. 110: 519-526.
- Baranger, A., Chèvre, A., Eber, F., Renard, M. 1995. Effect of Oilseed Rape Genotype on the Spontaneous Hybridization Rate With Weedy Species: An Assessment of Transgene Dispersal. *Theoretical and Applied Genetics*. 91: 956-963.
- Bartsch, D., Cuguen, J., Biancardi, E., Sweet, J. 2003. Environmental Implications of Gene Flow from Sugar Beet to Wild Beet - Current Status and Future Research Needs. *Environmental Biosafety Research*. 2(2): 105-115.
- Bartsch, D., Brand, U., Morak, C., Pohl-Orf, M., Schuphan, I., Ellstrand, N. 2001. Biosafety of Hybrids Between Transgenic Virus-Resistant Sugar Beet and Swiss Chard. *Ecological Applications*. 11: 142-147.
- Bartsch, D., Ellstrand, N.C. 1999. Genetic Evidence for the Origin of Californian Wild Beets (Genus *Beta*). *Theoretical and Applied Genetics*. 99: 1120-1130.
- Bartsch, D., Schmidt, M. 1997. Influence of Sugar Beet Breeding on Populations of *Beta Vulgaris* Ssp. *maritima* in Italy. *Journal of Vegetation Science*. 8(1): 81-84.
- Bartsch, D., Lehnen, M., Clegg, J., Pohl-Orf, M., Schuphan, I., Ellstrand, N.C. 1999. Impact of Gene Flow From Cultivated Beet on Genetic Diversity of Wild Sea Beet Populations. *Molecular Ecology*. 8(10): 1733-1741.
- Bartsch, D., Pohl-Orf, M. 1996. Ecological Aspects of Transgenic Sugarbeet—Transfer and Expression of Herbicide Resistance in Hybrids With Wild Beets. *Euphytica*. 91: 55-58.
- Bartsch, D., Schmidt, M., Pohl-Orf, M., Haag, C., Schuphan, I. 1996. Competitiveness of Transgenic Sugar Beet Resistant to Beet Necrotic Yellow Vein Virus and Potential Impact on Wild Beet Populations. *Molecular Ecology*. 5: 199-205.
- Bartsch, D., Sukopp, H., Sukopp, U. 1993. Introduction of Plants with Special Regard to Cultigens Running Wild. IN: *Transgenic Organisms*. Wöhrmann, K., Tomiuk, J. (eds), Birkhäuser Verlag Basel/Switzerland: 135-151.

- Beckie, H., Warwick, S., Nair, H., Seguin-Swartz, G. 2003. Gene Flow in Commercial Fields of Herbicide-resistant Canola (brassica Napus). *Ecological Applications*. 13(5): 1276 - 1294.
- Bergelson, J., Purrington, C.B., Wichmann, G. 1998. Promiscuity in Transgenic Plants. *Nature*. 395(6697): 25-25.
- Bergelson, J. 1994. Changes in Fecundity Do Not Predict Invasiveness: A Model Study Of Transgenic Plants. *Ecology*. 75: 49-252.
- Bing, D., Downey, R., Rakow, G. 1996a. Assessment of Transgene Escape from Brassica rapa (Brassica campestris) into B. nigra or Sinapis arvensis. *Plant Breeding*. 115: 1-4.
- Bing, D., Downey, R., Rakow, G. 1996b. Hybridization Among Brassica napus, Brassica rapa and Brassica juncea and Their Two Weedy Relatives B. nigra and Sinapis arvensis Under Open Pollination Conditions in the Field. *Plant Breeding*. 115: 470-473.
- Boudry, P., Broomberg, K., Saumitou-Laprade, P., Morchen, M., Cuguen, J., Van Dijk, H.; Editors: Jones, D. D. 1994. Gene Escape in Transgenic Sugar Beet: What Can be Learned from Molecular Studies of Weed Beet Populations? *Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms*. Publisher: University of California, Oakland: 75-87.
- Boudry, P., Morchen, M., Saumitou-Laprade, P., Vernet, P., Van Dijk, H. 1993. The Origin and Evolution of Weed Beets: Consequences for the Breeding and Release of Herbicide-resistant Transgenic Sugar Beets. *Theoretical and Applied Genetics*. 87: 471-478.
- BRIDGE. 1995. Safety Assessment of Genetically Modified Plants - BRIDGE 1992-1994 Practical information and Programmes. Brussels: Commission of the European Communities.
- BRIDGE. 1991. Biotechnology R and D in the EC . IN: Economidis I. (ed.): Biotechnology Action Programme (BAP). Part II. Detailed Final Report of BAP Contractors in Risk Assessment (1985-1990). Brussels: Commission of the European Communities.
- Broer, I., Droge-Laser, W., Gerke, M. 1996. Examination of the Putative Horizontal Gene Transfer From Transgenic Plants to Agrobacteria. Pages 67-70. IN: E.R. Schmidt, T. Hankeln (eds.). *Transgenic Organisms and Biosafety*. Springer Verlag Berlin, Heidelberg, New York.
- Brookes, G., Barfoot, P. 2004. Genetically Modified Maize - Pollen Movement and Crop Co-existence. PG Economics Ltd: 1-20.
- Brown, A., Brown, J., Thill, D., Brammer, T. 1996a. Gene Transfer Between Canola (Brassica napus) and Related Weed Species. *Eucarpia*. 18: 36-37.

- Brown, J., Brown, A. P., Erickson, D., Davis, J., Seip, L. 1996b. Competitive and Reproductive Fitness of Transgenic Canola x Weed species Hybrids. *Eucarpia*. 18: 34-35.
- Brown, S.L. 1999. Transgenic Sugar Beet in Natural Habitats. In, Amijee, F., Gliddon, C., Gray, A., (eds). *Environmental Impact of Genetically Modified Crops*, Institute of Terrestrial Ecology and Department of the Environment, DETR Research Report. 10: 132-150.
- Chevre, A., Eber, F., Jenczewski, E., Darmency, H., Renard, M. 2003. Gene Flow From Oilseed Rape to Weedy Species. *Acta Agriculture Scandinavica Section B*. 53: 22 - 25.
- Chilcutt, C., Tabashnik, B. 2004. Contamination of Refuges by Bacillus thuringiensis Toxin Genes from Transgenic Maize. *Proceedings of National Academy of Science*. 101(20): 7526-7529.
- Cleveland, D. , Soleri, D., Cuevas, F., Crossa, J., Gepts, P. 2006. Detecting (trans)gene Flow to Landraces in Centers of Crop Origin: Lessons from the Case of Maize in Mexico. *Environmental Biosafety Research*. 4(4): 197-208.
- Cordle, M.K., Payne, J.H., Young, A.L.; Editor: Ginzburg, L. 1991. Regulation and Oversight of Biotechnological Applications for Agriculture and Forestry. *Assessing Ecological Risks of Biotechnology*. Publisher: Butterworth-Heinemann. Chapter 14: 289-311.
- Crawley, M., Brown, S., Hails, R., Kohn, D., Rees, M. 2001. Transgenic Crops in Natural Habitats. *Nature*. 409(6821): 682-683.
- Crawley, M.J., Hails, R., Rees, M., Kohn, D., Buxton, J. 1993. Ecology of Transgenic Oilseed Rape in Natural Habitats. *Nature*. 363: 620-623.
- Crawley, M. 1992. The Comparative Ecology of Transgenic and Conventional Crops. IN: 2nd International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms. May 11-14, 1992, Goslar, Germany: 43-52.
- Crawley, M.J. 1990. The Ecology of Genetically Engineered Organisms, Assessing the Environmental Risks. IN: Mooney, H.A. and Bernardi, G. (eds), *Introduction of Genetically Modified Organisms Into the Environment*. John Wiley and Sons, Chichester, 13.
- Cureton, A., Newbury, H., Raybould, A., Ford-Lloyd, B. 2006. Genetic Structure and Gene Flow in Wild Beet Populations: The Potential Influence of Habitat on Transgene Spread and Risk Assessment. *Journal of Applied Ecology*. 43: 1203-1212.
- Custers, R. (Editor). 2001. *Safety of Genetically Engineered Crops*. Flanders Interuniversity Institute for Biotechnology: 1-159.
- Dale, P., Clarke, B., Fontes, E. 2002. Potential for the Environmental Impact of Transgenic Crops. *Nature Biotechnology*. 20(6): 567-574.

- Dale, P. 2002. The Environmental Impact of Genetically Modified (GM) Crops - A Review. *Journal of Agricultural Science*. 138: 245-248.
- Dale, P., Parkinson, R., Scheffler, J. 1993. Dispersal of Genes by Pollen - The Prosamo Project. 1993 BCPC Monograph No. 55 - Opportunities for Molecular Biology in Crop Production. 133-142.
- Dale, P., McPartlan, H., Parkinson, MacKay, G., Scheffler, J. 1992. Gene Dispersal From Transgenic Crops by Pollen. Second International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11-14, 1992 Goslar, Germany: 73-77.
- Daniell, H. 2002. Molecular Strategies for Gene Containment in Transgenic Crops. *Nature Biotechnology*. 20(6): 581-586.
- Darmency, H. 1994. The Impact of Hybrids Between Genetically Modified Crop Plants and Their Related Species: Introgression and Weediness. *Molecular Ecology*. 3: 37-40.
- De Kathen, A. 1996. The Impact of Transgenic Crop Releases on Biodiversity in Developing Countries. *Biotechnology and Development Monitor (University of Amsterdam)*. 28: 10-14.
- DeMarchis, F., Bellucci, M., Arcioni, S. 2003. Measuring Gene Flow From Two Birdfoot Trefoil -*Lotus corniculatus*- Field Trials Using Transgenes as Tracer Markers. *Molecular Ecology*. 12: 1681-1685.
- Deni, J., Message, B., Chioccioli, M., Tepfer, D. 2005. Unsuccessful Search for DNA Transfer from Transgenic Plants to Bacteria in the Intestine of the Tobacco Horn Worm *Manduca sexta*. *Transgenic Research*. 14(2): 207 - 215.
- De Vries, J., Wackernagel, W. 2004. Microbial Horizontal Gene Transfer and the DNA Release From Transgenic Crop Plants. *Plant and Soil*. 266(1-2): 91 - 104.
- Desplanque, B., Boudry, P., Broomberg, K., Saumitou-Laprade, P., Cuguen, J., Van Dijk, H. 1999. Genetic Diversity and Gene Flow Between Wild, Cultivated and Weedy Forms of *Beta vulgaris* L. (Chenopodiaceae), Assessed By RFLP and Microsatellite Markers. *Theoretical and Applied Genetics*. 98(8): 1194--1201.
- De Vries, F., van der Meijden, R., Brandenburg, W. 1994. Botanical Files on Lettuce (*Lactuca sativa* L.) for Gene Flow Between Wild and Cultivated Lettuce (*Lactuca sativa* L. Including *L. serriola* L., Compositae) and the Generalized Implications for Risk Assessment on Genetically Modified Plants. *Gorteria*. Supplement 2: 44.
- De Vries, E., van der Meijden, R., Brandenburg, W.A. 1992. Botanical Files -- A Study of the Real Chances for Spontaneous Gene Flow From Cultivated Plants to the Wild Flora of the Netherlands. *Gorteria Supplement*. 1: 1-100.
- Downey, R. 1999. Gene Flow and Rape - the Canadian experience. BCPC (British Crop Protection Council) Symposium Proceedings. 72: 109-116.

- Downey, R. 1992. Biosafety of Transgenic Oilseed Brassica Species. Second International Symposium on The Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms, May 11-14, 1992. Goslar, Germany: 17-21.
- Eijlander, R., Stiekema, W. 1993. Biological Containment of Potato (*Solanum tuberosum*): Outcrossing to the Related Wild Species Black Nightshade (*Solanum nigrum*) and Bittersweet (*Solanum dulcamara*). *Sex Plant Reproduction*. 7: 29-40.
- Ellstrand, N., Prentice, H., Hancock, J. 1999. Gene Flow and Introgression From Domesticated Plants into their Wild Relatives. *Annual Review of Ecology and Systematics*. 30: 539-563.
- Ellstrand, N. 1992. Gene Flow by Pollen - Implications for Plant Conservation Genetics. *OIKOS*. 63 (1): 77-86.
- Elven, R., Fremstad, E., Sandved, M. 1991. Genetiske risikoer for norske villplanter. Norsk Institutt for Naturforskning (NINA) Oppdragsmelding. 73: 1-39.
- Fredshavn, J., Poulsen, G. 1995. Competitiveness of Transgenic Oilseed Rape. *Transgenic Research*. 4: 142-148.
- Feng, P., Tran, M., Chiu, T., Sammons, R., Heck, G., CaJacob, C. 2004. Investigations into Glyphosate-resistant Horseweed (*Conyza canadensis*): Retention, Uptake, Translocation, and Metabolism. *Weed Science*. 52(4): 498-505.
- Fuchs, M., Gonsalves, D. 1999. Risk Assessment of Gene Flow From Virus-Resistant Transgenic Squash into a Wild Relative. In Ammann, K., Jacot, Y., Simonsen, V., Kjellsson, G. (eds.). *Methods for Risk Assessment of Transgenic Plants III: Ecological Risks and Prospects of Transgenic Plants. Where do we go from here?* Birkhaeuser Verlag. 141-143.
- Funk, T., Wenzel, G., Schwarz, G. 2005. Outcrossing Frequencies and Distribution of Transgenic Oilseed Rape -*Brassica napus L.*- in the Nearest Neighbourhood. *European Journal of Agronomy*. 24: 26-34.
- Gebhard, F., Smalla, K. 1999. Monitoring Field Releases of Genetically Modified Sugar Beets for Persistence of Transgenic Plant DNA and Horizontal Gene Transfer. *FEMS (Federation of European Microbiological Societies) Microbiology Ecology*. 28: 261-272.
- Giddings, G., Hammilton, N., Hayward, M. 1997. The Release of Genetically Modified Grasses. Part 1: Pollen Dispersal to Traps in *Lolium perenne*. *Theoretical and Applied Genetics*. 94: 1000-1006.
- Giddings, G., Hammilton, N., Hayward, M. 1997. The Release of Genetically Modified Grasses. Part 2: The Influence of Wind Direction on Pollen Dispersal. *Theoretical and Applied Genetics*. 94: 1007-1014.
- Glover, J. 2002. Gene Flow Study - Implications for the Release of Genetically Modified Crops in Australia. *Australia Bureau of Rural Sciences*: 1-81.

Guadagnuolo, R., Clegg, J., Ellstrand, N. 2006. Relative Fitness of Transgenic Vs. Non-transgenic Maize X Teosinte Hybrids: A Field Evaluation. *Ecological Applications: A Publication of the Ecological Society of America*. 16(5): 1967-1974.

Guadagnuolo, R., Savova Biachi, D., Keller, B., Sneften, J., Rufener [Al Mazyad], P., Jacot, Y., Ammann, K., Fleber, F. 1998. Gene Flow in Selected Swiss Crops and Related Weeds, Risk Assessment for the Field Release of GMO's in Switzerland, Case of Wheat and Oilseed Rape. In Ammann, K., Jacot, Y., Simonsen, V., Kjellsson, G. (editors). *Methods for Risk Assessment of Transgenic Plants III: Ecological Risks and Prospects of Transgenic Plants. Where do we go from here?* Birkhaeuser Verlag. 233.

Gray, A., Raybould, A. 1998. Reducing Transgene Escape Routes. *Nature*. 392(6677): 653-654.

Gressel, J., Al-Ahmad, H. 2003. Containment and Mitigation of Transgene Flow From Crops. The BCPC International Congress - Crop Science and Technology 2003. 10-12 November: 1175-1180.

Gustafson, D., Horak, M., Rempel, C., Metz, S., Gigax, D., Hucl, P. 2005. An Empirical Model for Pollen-mediated Gene Flow in Wheat. *Crop Science*. 45: 1286-1294.

Hancock, J., Grumet, R., Hokanson, S. 1996. The Opportunity for Escape of Engineered Genes from Transgenic Crops. *HortScience*. 31(7): 1080-1085.

Harding, K., Harris, P. 1997. Risk Assessment of the Release of Genetically Modified Plants, a Review Agro-Food-Industry Hi-Tech. 8: 8-13.

Hokanson, S., Hancock, J., Grumet, R. 1997. Direct Comparison of Pollen-Mediated Movement of Native and Engineered Genes. *Euphytica*. 96: 397-403.

Hokkanen, H., Wearing, C. 1995. Assessing the Risk of Pest Resistance Evolution to Bacillus thuringiensis Engineered into Crop Plants: a Case Study of Oilseed Rape. *Field Crops Research*. 45: 171-179.

Ilardi, V., Barba, M. 2002. Assessment of Functional Transgene Flow in Tomato Fields. *Molecular Breeding*. 8(4): 311-315.

Jorgensen, R., Hauser, T., Mikkelsen, T., Ostergard, H. 1996. Transfer of Engineered Genes From Crop to Wild Plants. *Trends in Plant Sciences*. 1(10): 356-358.

Jorgensen, R., Andersen, B. 1994. Spontaneous Hybridization Between Oilseed Rape (*Brassica napus*) and Weedy *B. campestris* (*Brassicaceae*): a Risk of Growing Genetically Modified Oilseed Rape. *American Journal of Botany*. 81: 1620-1626.

Kapteijns, A. 1993. Risk Assessment of Genetically Modified Crops. Potential of Four Arable Crops to Hybridize with the Wild Flora. *Euphytica*. 66: 145-149.

Kareiva, P., Parker, I., Pascual, M. 1997. Can We Use Experiments and Models in Predicting the Invasiveness of Genetically Engineered Organisms? *Ecology*. 77: 1670-1675.

Kareiva, P., Manasse, R. 1990. Using Models to Integrate Data From Field Trails and Estimate Risks of Gene Escape and Gene Spread. *Biological Monitoring of Genetically Engineered Plants and Microbes – International Symposium on the Biosafety Results of Field Test of Genetically Modified Plants and Microorganisms*, November 27-30, 1990, Kiawah Island, South Carolina: 31-42.

Keeler, K., Turner, C., Bolick, M. 1996. Movement of Crop Transgenes into Wild Plants. IN: *Herbicide-Resistant Crops*. Chapter 20: 303-330.

Kim, Y., Park, B., Hwang, E., Yim, N., Kim, N., Kang, T., Lee, S., Kim, S. 2004. Investigation of Possible Gene Transfer to Soil Microorganisms for Environmental Risk Assessment of Genetically Modified Organisms. *Journal of Microbiology and Biotechnology*. 14(3): 498 - 502.

Kjellsson, G., Simonsen, V., Ammann, K. 1997. II. Pollination, Gene Transfer and Population Impacts. *Methods for Risk Assessment of Transgenic Plants*: 221-297.

Klinger, T., Ellstrand, N. 1999. Transgene Movement via Gene Flow, Recommendations for Improved Biosafety Assessment. IN: Ammann, K., Jacot, Y., Simonsen, V., Kjellsson, G. (editors). *Methods for Risk Assessment of Transgenic Plants III: Ecological Risks and Prospects of Transgenic Plants. Where Do We Go From Here?* Birkhaeuser Verlag: 129-140.

Klinger, T., Ellstrand, N. 1994. Engineered Genes in Wild Populations: Fitness of Weed-Crop Hybrids of *Raphanus sativus*. *Ecological Applications*. 4: 117-120.

Klinger, T., Arriola, P.E., Ellstrand, N. 1992. Crop-Weed Hybridization in Radish (*Raphanus Sativus*): Effects of Distance and Population Size. *American Journal of Botany*. 79: 1431-1435.

Klinger, T., Elam, D., Ellstrand, N. 1991. Radish as a Model System for the Study of Engineered Gene Escape Rates Via Crop-Weed Mating. *Conservation Biology*. 5: 531-535.

Kwon, Y., Kim, D. 2001. Herbicide-resistant Genetically Modified Crop - Its Risks With an Emphasis on Gene Flow. *Weed Biology and Management*. 1: 42-52.

Kwon, Y., Kim, D., Yim, K. 2001. Herbicide-resistant Genetically Modified Crop - Assessment and Management of Gene Flow. *Weed Biology and Management*. 1: 96-107.

Landbo, L., Jorgensen, R. 1997. Seed Germination in Weedy *Brassica campestris* and Its Hybrids with *B. napus*: Implications for Risk Assessment of Transgenic Oilseed Rape. *Euphytica*. 97: 209-216.

Lavigne, C., Klein, E., Couvet, D. 2002. Using Seed Purity Data to Estimate an Average Pollen Mediated Gene Flow from Crops to Wild Relatives. *Theoretical and Applied Genetics*. 104: 139-145.

- Legere, A. 2005. Risks and Consequences of Gene Flow from Herbicide-resistant Crops - Canola -*Brassica napus* L- as a Case Study. *Pest Management Science*. 61 (3): 292-300.
- Linder, C. 1998. Potential Persistence of Transgenes: Seed Performance of Transgenic Canola and Wild X Canola Hybrids. *Ecological Applications*. 84: 1180-1195.
- Linder, C., Schmitt, J. 1995. Potential Persistence of Escaped Transgenes: Performance of Transgenic Oil-Modified Brassica Seeds and Seedlings. *Ecological Applications*. 5: 1056-1068.
- Ilardi, V., Barba, M. 2002. Assessment of Functional Transgene Flow in Tomato Fields. *Molecular Breeding*. 8(4): 311 - 315.
- Llewellyn, D., Tyson, C., Constable, G., Duggan, B., Beale, S., Steel, P. 2007. Containment of Regulated Genetically Modified Cotton in the Field. *Agriculture Ecosystems and Environment*. 121: 419-429.
- Llewellyn, D., Fitt, G. 1996. Pollen Dispersal From Two Field Trials of Transgenic Cotton in the Namoi Valley, Australia. *Molecular Breeding*. 2: 157-166.
- Madsen, K. 1994. Weed Management and Impact on Ecology of Growing Glyphosate Tolerant Sugarbeets, Ph.D.Thesis. The Royal Veterinary and Agricultural University, Weed Science, Denmark: 61 pages.
- Matus-Cadiz, M., Hucl, P., Horak, M., Blomquist, L. 2004. Gene Flow in Wheat at the Field Scale. *Crop Science*. 44: 718-727.
- McPartlan, H., Dale, P. 1994. An Assessment of Gene Transfer by Pollen From Field-Grown Transgenic Potatoes to Non-Transgenic Potatoes and Related Species. *Transgenic Research*. 3: 216-225.
- Meier, P., Wackernagel, W. 2003. Monitoring the Spread of Recombinant DNA From Field Plots With Transgenic Sugar Beet Plants by PCR and Natural Transformation of *Pseudomonas stutzeri*. *Transgenic Research*. 12(3): 293-304.
- Messeguer, J. 2003. Gene Flow Assessment in Transgenic Plants. *Plant Cell, Tissue and Organ Culture*. 73: 201-212.
- Messeguer, J., Fogher, C., Guiderdoni, E., Marfa, V., Catala, M., Baldi, G., Mele, E. 2001. Field Assessments of Gene Flow From Transgenic to Cultivated Rice - *Oryza sativa* L. - Using a Herbicide Resistance Gene as Tracer Marker. *Theoretical and Applied Genetics*. 103: 1151-1159.
- Metz, P., Jacobsen, E., Nap, J., Pereira, A., Stiekema, W. 1997. The Impact on Biosafety of the Phosphinothricin-Tolerance Transgene in Inter-Specific *B. rapa* x *B. napus* Hybrids and their Successive Backcrosses. *Theoretical and Applied Genetics*. 95: 442-450.
- Mikkelsen, T., Andersen, B., Jorgensen, R., 1996. The Risk of Crop Transgene Spread. *Nature*. 380: 31.



- Morris, W., Kareiva, P., Raymer, P. 1994. Do Barren Zones and Pollen Traps Reduce Gene Escape From Transgenic Crops? *Ecological Application*. 4: 157-165.
- Pardini, R. 2006. Nutritional Intervention with Omega-3 Fatty Acids Enhances Tumor Response to Anti-neoplastic Agents. *Chemico-Biological Interactions*. 162: 89-105
- Parker, I., Bartsch, D. 1996. Recent Advances in Ecological Biosafety Research on the Risks of Transgenic Plants, a Trans-Continental Perspective. IN: Tomiuk, J., Setker, A., and Wohrmann, K. (editors). *Transgenic Organisms - Biological and Social Implications*. Birkhauser-Verlag Base: 147-161.
- Parker, I., Kareiva, P. 1996. Assessing the Risks of Invasion for Genetically Engineered Plants: Acceptable Evidence and Reasonable Doubt. *Biological Conservation*. 78: 193-203.
- Paul, E., Thompson, C. 1995. Gene Dispersal from Genetically Modified Oil Seed Rape in Field. *Euphytica*. 81: 283-289.
- Pratley, J. 1998. Glyphosate Resistance in Annual Ryegrass. *Monsanto*: 1-7.
- Raybould, A. 2001. Gene Flow from Genetically Modified Crops. *Pesticide Outlook*. 12(5): 177-180.
- Raybould, A., Moyes, C., Maskell, L., Mogg, R., Wardlaw, J., Elmes, G., Edwards, M., Cooper, J., Clarke, R., Gray, A. 1999. Predicting the Ecological Impacts of Transgenes for Insect and Virus Resistance in Natural and Feral Populations of Brassica Species. IN: Ammann, K., (editors). *Ecological Risks and Prospects of Transgenic Plants. Where Do We Go From Here?* Birkhaeuser Verlag: pages 3-15.
- Raybould, A., Gray, A. 1994. Will hybrids of Genetically Modified Crops Invade Natural Communities? *Trends in Ecology and Evolution*. 9(3): 85-89.
- Raybould, A., Gray, A. 1993. Genetically Modified Crops and Hybridization with Wild Relatives: A UK Perspective. *Journal of Applied Ecology*. 30: 199-219.
- Reboud, X., Gasques, J., Darmency, H. 1999. A Multisite-Cooperative Research Programme on Risk Assessment of Transgenic Crops. In: Ammann, K., (editors). *Ecological Risks and Prospects of Transgenic Plants. Where do we go from here?* Birkhaeuser Verlag: pages 17-20.
- Reichman, J., Watrud, L. 2007. Identification of Escaped Transgenic Creeping Bentgrass in Oregon. *ISB News Report*. April: 1-3.
- Richards, J., Stanley, J., Gregg, P. 2005. Viability of Cotton and Canola Pollen on the Proboscis of *Helicoverpa Armigera*: Implications for Spread of Transgenes and Pollination Ecology. *Ecological Entomology*. 30(3): 327 - 333.
- Rieger, M., Lamond, M., Preston, C., Powles, S., Roush, R. 2002. Pollen-Mediated Movement of Herbicide Resistance Between Commercial Canola Fields. *Science*. 296: 2386--2388.

Roberts, N., Marshall, G., Davies, K., Doyle, C. 1999. Modeling the Impact of Transgenic Herbicide-Tolerant Oilseed Rape on Weed Population Dynamics. 1999 Brighton Conference: Weeds. 1(3): 853-858.

Rong, J., Su, J., Xia, H., Lu, B., Wang, F. 2005. Low Frequency of Transgene Flow from Bt/cptI Rice to its Nontransgenic Counterparts Planted at Close Spacing. *New Phytologist*. 168(3): 559 - 566.

Saeglitz, C., Bartsch, D. 2002. Plant Gene Flow Consequences. *AgBiotechNet*. 4: 1-8.

Salisbury, P. 2002. Executive Summary. IN: Genetically Modified Canola in Australia - Agronomic and Environmental Considerations. Australian Oilseeds Federation: 7-11.

Scheffler, J., Dale, P. 1994. Opportunities for Gene Transfer from Transgenic Oilseed Rape (*Brassica napus*) to Related Species. *Transgenic Research*. 3(5): 263-278.

Scott, S., Wilkinson, M. 1999. Low Probability of Chloroplast Movement From Oilseed Rape (*Brassica napus*) into Wild *Brassica rapa*. *Nature Biotechnology*. 17 (4): 390-392.

Smyth, S., Khachatourians, G., Phillips, P. 2002. Liabilities and Economics of Transgenic Crops. *Nature Biotechnology*. 20(6): 537-541.

Snow, A. 2002. Transgenic Crops - Why Gene Flow Matters. *Nature Biotechnology*. 20(6): 542.

Song, Z., Lu, B., Zhu, Y., Chen, J. 2003. Gene Flow from Cultivated Rice to the Wild Species *Oryza rufipogon* under Experimental Field Conditions. *New Phytologist*. 157(3): 657 - 665.

Stevens, W., Berberich, S., Sheckell, P., Wiltse, C., Halsey, M., Horak, M., Dunn, D. 2004. Optimizing Pollen Confinement in Maize Grown for Regulated Products. *Crop Science*. 44: 2146-2153.

Stewart Jr., C., Halfill, M., Warwick, S. 2003. Transgene Introgression from Genetically Modified Crops to their Wild Relatives. *Nature*. 4: 806-817.

Stewart Jr., C., Neal, C. 1998. Risks of Insecticide Bt Transgenic *Brassica napus* (oilseed rape): Hybridization, Transgene Persistence and Monitoring. IN: Farina, A., Kennedy, J., Bossu, V. (editors). *Proceedings of the VII International Congress of Ecology*. 19-25 July 1998, Firenze - Italy: 406.

Stewart Jr., C., All, J., Raymer, P., Ramachandran, S. 1997. Increased Fitness of Transgenic Insecticidal Rapeseed Under Insect Selection Pressure. *Molecular Ecology*. 6: 773-779.

Stewart, N. 2002. Gene Flow and its Consequences: *Brassica napus* (canola, oilseed rape) to wild relatives. IN: *Proceedings Ecological and Agronomic Consequences of*

Gene Flow from Transgenic Crops to Wild Relatives, Ohio State University, Mar. 5-6, 2002: 106-112.

Sukopp, H., Sukopp, U. 1993. Ecological Long-Term Effects of Cultigens Becoming Feral and of Naturalization of Non-Native Species. Birkhaeuser Verlag Basel. 210-218.

Umbeck, P., Barton, K., Nordheim, E., McCarty, J., Parrott, W., Jenkins, J. 1991. Degree of Pollen Dispersal by Insects from a Field Test of Genetically Engineered Cotton. *Journal of Economic Entomology*. 84(6): 1943-1950.

van den Eede, G., Aarts, H., Buhk, H., Corthier, G., Flint, H., Hammes, W., Jacobsen, B., Midtvedt, T., van der Vossen, F., von Wright, A., Wackernagel, W. 2004. The Relevance of Gene Transfer to the Safety of Food and Feed Derived From Genetically Modified (GM) Plants. *Food and Chemical Toxicology*. 42: 1127-1156.

Waines, J., Hegde, S. 2003. Intraspecific Gene Flow in Bread Wheat as Affected by Reproductive Biology and Pollination Ecology of Wheat Flowers. *Crop Science*. 43: 451-463.

Watrud, L., Lee, E., Fairbrother, A., Burdick, C., Reichman, J., Bollman, M., Storm, M., King, G., Van de Water, P. 2004. Evidence for Landscape-level, Pollen-mediated Gene Flow from Genetically Modified Creeping Bentgrass with CP4 EPSPS as a Marker. (PNAS) *Proceedings of National Academy of Science*. 101(4): 14533-14538.

Weekes, R., Allnut, R., Boffey, C., Morgan, S., Bilton, M., Daniels, R., Henry, C. 2007. A Study of Crop-to-crop Gene Flow Using Farm Scale Sites of Fodder Maize (*Zea mays* L.) in the UK. *Transgenic Research*. 16: 203-211.

Weekes, R., Deppe, C., Allnut, T., Boffey, C., Morgan, D., Morgan, S., Bilton, M., Daniels, R., Henry, C. 2005. Crop-to-Crop Gene Flow Using Farm Scale Sites of Oilseed Rape -*Brassica napus*- in the UK. *Transgenic Research*. 14: 749-759.

Widmer, F., Seidler, R., Donegan, K., Reed, G. 1997. Quantification of Transgenic Plant Marker Gene Persistence in the Field. *Molecular Ecology*. 6: 1-7.

Widmer, F., Seidler, R., Watrud, L. 1996. Sensitive Detection of Transgenic Plant Marker Gene Persistence in Soil Microcosms. *Molecular Ecology*. 5: 603-613.

Wozniak, C. 2002. Gene Flow Assessment for Plant-Incorporated Protectants by the Biopesticide and Pollution Prevention Division, U.S. EPA. IN: *Proceedings Ecological and Agronomic Consequences of Gene Flow from Transgenic Crops to Wild Relatives*, Ohio State University, Mar 5-6, 2002: 153-168.

Yoshimura, Y., Matsuo, K., Yasuda, K. 2006. Gene Flow from GM Glyphosate-tolerant to Conventional Soybeans under Field Conditions in Japan. *Environmental Biosafety Research*. 5(3): 169-173.

Zemetra, R., Mallory-Smith, C., Hansen, J., Wang, Z., Snyder, J., Hang, A., Kroiss, L., Riera-Lizarazu, O., Vales, I. 2002. The Evolution of a Biological Risk Program - Gene Flow Between Wheat (*triticum aestivum* L.) and Jointed Goatgrass (*Aegilops cylindrica*

Host). IN: Proceedings Ecological and Agronomic Consequences of Gene Flow from Transgenic Crops to Wild Relatives, Ohio State University, Mar 5-6, 2002: 169-178.

Zhang, N., Linscombe, S., Oard, J. 2003. Out-Crossing Frequency and Genetic Analysis of Hybrids Between Transgenic Glufosinate Herbicide-resistant Rice and the Weed, Red Rice. *Euphytica*. 130: 35-45.

## **Co-Existence**

2003. GM Crops? Coexistence and Liability - Table of Contents and Executive Summary. AEBC. Agriculture and Environment Biotechnology Commission: 1-12.

2003. GM Crops and Co-existence. Proceedings - The 1st European Conference on the Co-existence of Genetically Modified Crops with Conventional and Organic Crops. DIAS-Danish Inst Agricultural Sciences. GMCC-03: 1-228.

Brookes, G. 2004. Co-existence of GM and non GM Crops - Current Experience and Key Principles. PG Economics Ltd: 1-18.

Brookes, G., Barfoot, P. 2004. Co-Existence Of Gm And Non Gm Arable Crops: the Non GM and Organic Context in the EU. PG Economics Ltd. 1-22.

Brookes, G., Barfoot, P. 2004. Co-existence in North American Agriculture - Can GM Crops be Grown with Conventional and Organic Crops? PG Economics Ltd: 1-23.

Brookes, G., Barfoot, P. 2004. Genetically Modified Maize - Pollen Movement and Crop Co-existence. PG Economics Ltd: 1-20.

Brookes, G. 2004. Co-existence of GM and Conventional Crops. Outlooks on Pest Management. 15(4): 189-191.

Brookes, G., Barfoot, P. 2003. Co-existence of GM and non GM Crops - Case Study of Maize Grown in Spain. Foundation for the Application of New Technology in Agriculture. Downloaded from web 11/6/03.  
<http://www.bioportfolio.com/pdf/Coexistencecasestudypain.01.pdf>. Pages 1-13.

Tolstrup, K., Andersen, S., Boelt, B., Buus, M., Gylling, M., Holm, P., Kjellsson, G., Pedersen, S., Ostergard, H., Mikkelsen, S. 2003. Report from the Danish Working Group on the Co-existence of Genetically Modified Crops with Conventional and Organic Crops. DIAS Report, Plant Production. No.94: 275 pages. Publisher: Danmarks JordbrugsForskning, Tjele, Denmark.

Weber, W., Bringezu, T., Broer, I., Erder, J., Holz, F. 2007. Coexistence Between GM and Non-GM Maize Crops - Tested in 2004 at the Field Scale Level (Erprobungsanbau 2004). Journal of Agronomy and Crop Science. 193: 79-92.

### **Non-Target Species Safety**

Ahmad, A., Wilde, G., Zhu, K. 2006. Evaluation of Effects of Coleopteran-specific Cry3Bb1 Protein on Earthworms Exposed to Soil Containing Corn Roots or Biomass. *Environmental Entomology*. 35(4): 976-985.

Ahmad, A., Wilde, G., Whitworth, J., Zolnerowich, G. 2006. Effect of Corn Hybrids Expressing the Coleopteran-specific Cry3Bb1 Protein for Corn Rootworm Control on Aboveground Insect Predators. *Journal of Economic Entomology*. 99(4): 1085-1095.

Ahmad, A., Wilde, G., Zhu, K. 2005. Detectability of Coleopteran-specific Cry3bb1 Protein in Soil and its Effect on Nontarget Surface and Below-ground Arthropods. *Environmental Entomology*. 34(2): 385 - 394.

Al-Deeb, M., Wilde, G. 2005. Effect of Bt Corn Expressing the Cry3Bb1 Toxin on Western Corn Rootworm (coleoptera: Chrysomelidae) Biology. *Journal of the Kansas Entomological Society*. 78(2): 142 - 152.

Al-Deeb, M., Wilde, G., Higgins, R. 2001. No Effect of *Bacillus thuringiensis* Corn and *Bacillus thuringiensis* on the Predator *Orius insidiosus* -Hemiptera-Anthocoridae. *Environmental Entomology*. 30(3): 625-629.

Al-Deeb, M., Wilde, G.. 2003. Effect of Bt Corn Expressing the Cry3Bb1 Toxin for Corn Rootworm Control on Aboveground Nontarget Arthropods. *Environmental Entomology*. 32(5): 1164-1170.

Al-Deeb, M., Wilde, G., Blair, J., Todd, T. 2003. Effect of Bt Corn for Corn Rootworm Control on Non-target Soil Microarthropods and Nematodes. *Biological Control - Microbials*. 32(4): 859-865.

Anderson, P., Hellmich, R., Prasifka, J., Lewis, L. 2005. Effects on Fitness and Behavior of Monarch Butterfly Larvae Exposed to a Combination of Cry1Ab-expressing Corn Anthers and Pollen. *Environmental Entomology*. 34(4) 944 - 952.

Anderson, P., Hellmich, R., Sears, M., Sumerford, D., Lewis, L. 2004. Effects of Cry1Ab-expressing Corn Anthers on Monarch Butterfly Larvae. *Environmental Entomology*. 33(4): 1109 - 1115.

Andow, D., Hilbeck, A. 2004. Science-based Risk Assessment for Nontarget Effects of Transgenic Crops. *Bioscience*. 54(7): 637-649.

Armstrong, J. S., Leser, J., Kraemer, G. 2000. An Inventory of the Key Predators of Cotton Pests on Bt and Non-Bt Cotton in West Texas. *Proceedings of the Beltwide Cotton Conference*. 2: 1030-1033.

Arpaia, S. 1997. Ecological impact of Bt-transgenic plants: 1. Assessing Possible Effects of CryIIIB Toxin on Honey Bee (*Apis mellifera* L.) Colonies. *Journal of Genetics and Breeding*. 50: 315-319.

- Ashouri, A., Michaud, D., Cloutier, C. 2001. Unexpected Effects of Different Potato Resistance Factors to the Colorado Potato Beetle (coleoptera : Chrysomelidae) on the Potato Aphid (homoptera : Aphididae). *Environmental Entomology*. 30(3): 524 - 532.
- Azevedo, J., Araujo, W. 2004. Genetically Modified Crops: Environmental and Human Health Concerns. *Mutation Research*. 544(2-3): 223-233.
- Babendreier, D. , Joller, D., Romeis, J., Bigler, F., Widmer, F. 2007. Bacterial Community Structures in Honeybee Intestines and their Response to Two Insecticidal Proteins. *FEMS Microbiology Ecology*. 59(3): 600-610.
- Babendreier, D., Kalberer, N., Romeis, J., Fluri, P., Mulligan, E., Bigler, F. 2005. Influence of Bt-transgenic Pollen, Bt-toxin and Protease Inhibitor (SBTI) Ingestion on Development of the Hypopharyngeal Glands in Honeybees. *Apidologie*. 36: 585-594.
- Bai, Y., Jiang, M., Cheng, J., Wang, D. 2006. Effects of CryIAb Toxin on *Propylea japonica* (Thunberg) (Coleoptera : Coccinellidae) through its Prey, *Nilaparvata lugens* Stål (Homoptera : Delphacidae), Feeding on Transgenic Bt Rice. *Environmental Entomology*. 35(4): 1130-1136.
- Bai, Y., Jiang, M. , Cheng, J. 2005. Effects of Transgenic Cry1Ab Rice Pollen on Fitness of *Propylea japonica* (Thunberg). *Journal of Pest Science*. 78: 123-128.
- Bambawale, O.V., Singh, A., Sharma, O., Bhosle, B., Lavekar, R., Dhandapani, A., Kanwar, V., Tanwar, R., Rathod, K., Patange, N., Pawar, V. 2004. Performance of Bt Cotton - MECH-162 - Under Integrated Pest Management in Farmers' Participatory Field Trial in Nanded District, Central India. *Research Communications*. 86(12): 1628-1633.
- Baumgarte, S., Tebbe, C. 2005. Field Studies on the Environmental Fate of the Cry1Ab Bt-toxin produced by Transgenic Maize -MON810- and its Effect on Bacterial Communities in the Maize Rhizosphere. *Molecular Ecology*. 14: 2539-2551.
- Behle, R., Isbell, T. 2005. Evaluation of Cuphea as a Rotation Crop for Control of Western Corn Rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*. 98(6): 1984-1991.
- Bell, J., Houghton, A., Boatman, W. 2002. Do Incremental Increases of the Herbicide Glyphosate Have Indirect Consequences for Spider Communities? *The Journal of Arachnology*. 30: 288-297.
- Beringer, J. 1999. Cautionary Tale on Safety of GM Crops. *Nature*. 399: 405.
- Bhatti, M., Duan, J., Head, G., Jiang, C. , McKee, M., Nickson, T., Pilcher, C.L. , Pilcher, C.D. 2005. Field Evaluation of the Impact of Corn Rootworm -Coleoptera- Chrysomelidae- Protected Bt Corn on Ground-Dwelling Invertebrates. *Environmental Entomology*. 34(5): 1325-1335.
- Bhatti, M., Duan, J., Head, G., Jiang, C., McKee, M., Nickson, T., Pilcher, C.L., Pilcher, C.L. 2005. Field Evaluation of the Impact of Corn Rootworm (Coleoptera: Chrysomelidae)- Protected Bt Corn on Foliage-Dwelling Arthropods. *Environmental Entomology*. 34(5): 1336-1345.

- Bitzer, R., Rice, M., Pilcher, C.D., Pilcher, C.L., Lam, W. 2005. Biodiversity and Community Structure of Epedaphic and Euedaphic Springtails -(Collembola) in Transgenic Rootworm Bt Corn. *Environmental Entomology*. 34(5): 1346-1376.
- Bitzer, R., Buckelew, L., Pedigo, L. 2002. Effects of Transgenic Herbicide-resistant Soybean Varieties and Systems on Surface-active Springtails - *Entognatha collembola*. *Environmental Entomology*. 31(3): 449-461.
- Blackwood, C., Buyer, J. 2004. Soil Microbial Communities Associated with Bt and Non-Bt Corn in Three Soils. *Journal of Environmental Quality*. 33: 832-836.
- Bourguet, D., Chaufaux, J., Micoud, A., Delos, M., Naibo, B., Bombarde, F., Marque, G., Eychenne, N., Pagliari, C. 2002. *Ostrinia nubilalis* Parasitism and the Field Abundance of Non-target Insects in Transgenic *Bacillus thuringiensis* Corn - *zea mays*. *Environmental Biosafety Research*. 1: 49-60.
- Candolfi, M., Brown, K., Grimm, C., Reber, B., Schmidli, H. 2004. A Faunistic Approach to Assess Potential Side-effects of Genetically Modified Bt-corn on Non-target Arthropods Under Field Conditions. *Biocontrol Science and Technology*. 14(2): 129 - 170.
- Carter, M., Vollani, M., Allee, L., Losey, J. 2004. Absence of Non-Target Effects of Two *Bacillus thuringiensis* Coleopteran Active A-Endotoxins on the Bulb Mite, *Rhiglypus Robini* - Claparede - Acari, Acaridae. *Journal of Applied Entomology*. 128: 56-63.
- Castaldini, M., Turrini, A., Sbrana, C., Benedetti, A., Marchionni, M., Mocali, S., Fabiani, A., Landi, S., Santomassimo, F., Pietrangeli, B., Nuti, M., Miclaus, N., Giovannetti, M. 2005. Impact of Bt Corn on Rhizospheric and Soil Eubacterial Communities and on Beneficial Mycorrhizal Symbiosis in Experimental Microcosms. *Applied and Environmental Microbiology*. 71(11): 6719-6729.
- Cerdeira, A., Duke, S. 2006. The Current Status and Environmental Impacts of Glyphosate-Resistant Crops: A Review. *Journal of Environmental Quality*. 35(5): 1633-1658.
- Clark, B., Coats, J. 2006. Subacute Effects of CryIAb Bt Corn Litter on the Earthworm *Eisenia fetida* and the Springtail *Folsomia candida*. *Environmental Entomology*. 35(4): 1121-1129.
- Cowgill, S., Atkinson, G. 2003. A Sequential Approach to Risk Assessment of Transgenic Plants Expressing Protease Inhibitors - Effects on Nontarget Herbivorous Insects. *Transgenic Research*. 12: 439-449.
- Dale, P., Clarke, B., Fontes, E. 2002. Potential for the Environmental Impact of Transgenic Crops. *Nature Biotechnology*. 20(6): 567-574.
- Daly, T., Buntin, C.D. 2005. Effect of *Bacillus thuringiensis* Transgenic Corn for Lepidopteran Control on Nontarget Arthropods. *Environmental Entomology*. 34(5): 1292-1301.



- de la Poza, M., Pons, X., Farinos, G., Lopez, C., Ortego, F., Eizaguirre, M., Castanera, P., Albajes, R. 2005. Impact of Farm-scale Bt Maize on Abundance of Predatory Arthropods in Spain. *Crop Protection*. 24(7): 677 - 684.
- Delrio, G., Verdinelli, M., Serra, G. 2004. Monitoring of Pest and Beneficial Insect Populations in Summer Sown Bt Maize. *Bulletin OILB/SROP*. Proceedings of the meeting of the IOBC/WPRS Working Group 'GMOs in Integrated Production', entitled Ecological Impact of Genetically Modified Organisms held in Prague, Czech Republic, 26-29 November 2003. 27(3): 43-48.
- Devare, M., Jones, C., Thies, J. 2004. Effect Of Cry3Bb Transgenic Corn and Tefluthrin on the Soil Microbial Community - Biomass, Activity and Diversity. *Journal of Environmental Quality*. 33: 837-843.
- Dewar, A., Haylock, L., May, M., Beane, J., Perry, R. 2001. Control of Volunteer Potatoes in GM Herbicide-tolerant Sugar Beet and the Consequences for Populations Of Potato Cyst Nematodes. *British Sugar Beet Review*. 69(4): 19-23.
- Dively, G. 2005. Impact of Transgenic VIP3A X Cry1Ab Lepidopteran-Resistant Field Corn on the Nontarget Arthropod Community. *Environmental Entomology*. 34(5): 1267-1291.
- Dively, G., Rose, R. 2004. Effects of Bt Transgenic and Conventional Insecticide Control on the Non-Target Natural Enemy Community in Sweet Corn. 1st International Symposium on Biological Control of Arthropods. Pages 265-274.
- Dively, G., Rose, R., Sears, M., Hellmich, R., Stanley-Horn, D., Calvin, D., Russo, J., Anderson, P. 2004. Effects on Monarch Butterfly Larvae -Lepidoptera-danaidae- After Continuous Exposure to Cry1Ab-Expressing Corn During Antithesis. *Environmental Entomology*. 33(4): 1116-1125.
- Dogan, E., Berry, R., Reed, G., Rossignol, P. 1996. Biological Parameters of Convergent Lady Beetle (Coleoptera: Coccinellidae) Feeding on Aphids (Homoptera: Aphididae) on Transgenic Potato. *Journal of Economic Entomology*. 89 (5): 1105-1108.
- Donegan, K., Seidler, R. 1999. Effects of Transgenic Plants on Soil and Plant Microorganisms. *Recent Research Developments in Microbiology*. 3: 415-424.
- Donegan, K., Seidler, R., Fieland, V., Shaller, P., Ganio, L., Cardwell, D., Steinberger, Y. 1997. Decomposition of Genetically Engineered Tobacco Under Field Conditions: Persistence of the Proteinase Inhibitor I Product and Effects on Soil Microbial Respiration and Protozoa, Nematode and Microarthropod Populations. *Journal of Applied Ecology*. 34: 767-777.
- Donegan, K., Schaller, D., Stone, J., Ganio, L., Reed, G., Hamm, P., Seidler, R. 1996. Microbial Populations, Fungal Species Diversity and Plant Pathogen Levels in Field Plots of Potato Plants Expressing the Bacillus thuringiensis var. tenebrionis Endotoxin. *Transgenic Research*. 5(1): 25-35.

- Donegan, K., Palm, C., Fieland, V., Porteous, L., Ganio, L., Schaller, D., Bucuo, L., Seidler, R. 1995. Changes in Levels, Species and DNA Fingerprints of Soil-Microorganisms Associated with Cotton Expressing the Bacillus-thuringiensis var. kurstaki Endotoxin. *Applied Soil Ecology*. 2(2): 111-124.
- Duan, J., Jiang, C., Head, G., Bhatti, M., Ward, D., Levine, S., Nickson, T., Nemeth, M. 2006. Statistical Power Analysis of a 2-year Field Study and Design of Experiments to Evaluate Non-target Effects of Genetically Modified Bacillus thuringiensis. *Ecological Entomology*. 31: 521-531.
- Duan, J., Paradise, M., Lundgren, J., Bookout, J., Jiang, C., Wiedenmann, R. 2006. Assessing Nontarget Impacts of Bt Corn Resistant to Corn Rootworms - Tier-1 Testing with Larvae of *Poecilus Chalcites* (coleoptera -- Carabidae). *Environmental Entomology*. 35( 1): 135-142.
- Duan, J., Paradise, M., Lundgren, J., Bookout, J., Jiang, C., Wiedenmann, R. 2006. Assessing Nontarget Impacts of Bt Corn Resistant to Corn Rootworms - Tier-1 Testing with Larvae of *Poecilus Chalcites* (coleoptera -- Carabidae). *Environmental Entomology*. 35(1): 135-142.
- Dunfield, K., Germida, J. 2003. Seasonal Changes in the Rhizosphere Microbial Communities Associated with Field-Grown Genetically Modified Canola - *Brassica napus*. *Applied and Environmental Microbiology*. 69(12): 7310-7318.
- Dutton, A., Romeis, J., Bigler, F. 2005. Effects of Bt Maize Expressing Cry1Ab and Bt Spray on *Spodoptera littoralis*. *Entomologia Experimentalis et Applicata*. 114: 161-169.
- Dutton, A., Romeis, J., Bigler, F. 2003. Assessing the Risks of Insect Resistant Transgenic Plants on Entomophagous Arthropods: Bt-maize Expressing Cry1Ab as a Case Study. *BioControl*. 48(6): 611-636.
- Dutton, A., Klein, H., Romeis, J., Bigler, F. 2002. Uptake of Bt-toxin by Herbivores Feeding on Transgenic Maize and Consequences for the Predator *Chrysoperla carnea*. *Ecological Entomology*. 27: 441-447.
- Duan, J., Head, G., McKee, M., Nickson, T., Martin, J., Sayegh, F. 2002. Evaluation of Dietary Effects of Transgenic Corn Pollen Expressing Cry3Bb1 Protein on a Non-target Ladybird Beetle, *Coleomegilla Maculata*. *Entomologia Experimentalis et Applicata*. 104 (2-3): 271 - 280.
- Eckert, J., Schuphan, I., Hothorn, A., Gathmann, A. 2006. Arthropods on Maize for Detecting Impacts of Bt Maize on Nontarget Organisms. *Journal of Environmental Entomology*. 35(2): 554-560.
- Ehrenfeld, D. 2006. Transgenics and Vertebrate Cloning as Tools for Species Conservation. *Conservation Biology*. 20(3): 723-732.
- Eizaguirre, M., Albajes, R., Lopez, C., Eras, J., Lumbierres, B., Pons, X. 2006. Six Years after the Commercial Introduction of Bt Maize in Spain: Field Evaluation, Impact and Future Prospects. *Transgenic Research*. 15(1): 1 - 12.

- Fang, M., Kremer, R., Motavalli, P., Davis, G. 2005. Bacterial Diversity in Rhizospheres of Nontransgenic and Transgenic Corn. *Applied and Environmental Microbiology*. 71(7): 4132 - 4136.
- Farinos, G., de la Poza, M., Hernandez-Crespo, P., Ortego, F., Castanera, P. 2004. Resistance Monitoring of Field Populations of the Corn Borers *Sesamia nonagrioides* and *Ostrinia nubilalis* After 5 Years of Bt Maize Cultivation in Spain. *Entomologia Experimentalis et Applicata*. 110: 23-30.
- Federici, B. 2003. Effects of Bt on Non-target Organisms. *Journal of New Seeds*. 5(1): 11-30.
- Felke, M., Lorenz, N., Langenbruch, G. 2002. Laboratory Studies on the Effects of Pollen from Bt-maize on Larvae of Some Butterfly Species. *Journal of Applied Entomology*. 126(6): 320 - 325.
- Ferretti, M., Magaouda, P. 2006. The Slow Pace of Institutional Change in the Italian Food System. *Appetite*. 47: 161-169.
- Ferry, N., Mulligan, E., Stewart, C., Tabashnik, B., Port, G., Gatehouse, A. 2006. Transgenic Canola on a Beneficial, Non-target, Carabid Beetle. *Transgenic Research*. 15(4): 501-514.
- Fitt, G., Wilson, L. 2001. Non-target Effects of Bt Cotton - A Case Study From Australia. *Proceedings of the 4th Pacific Rim Conference, Australian National University, Canberra, Australia, Nov 11-15, 2001*: 175-182.
- Glandorf, D., Bakker, P. 1997. Influence of the Production of Antibacterial and Antifungal Proteins by Transgenic Plants on the Saprophytic Soil Microflora. *ACTA Botanica Neerlandica*. 46: 85-104.
- Griffiths, B., Caul, S., Thompson, J., Birch, A.N., Cortet, J., Andersen, M., Krogh, P. 2007. Microbial and Microfaunal Community Structure in Cropping Systems with Genetically Modified Plants. *Pedobiologia*. IN PRESS: 12 pages.
- Griffiths, B., Heckmann, L., Caul, S., Thompson, J., Scrimgeour, C., Krogh, P. 2007. Varietal Effects of Eight Paired Lines of Transgenic Bt Maize and Near-isogenic Non-Bt Maize on Soil Microbial and Nematode Community Structure. *Plant Biotechnology Journal*. 5(1): 60-68.
- Griffiths, B., Caul, S., Thompson, J., Birch, N., Scrimgeour, C., Cortet, J., Foggo, A., Hackett, C., Krogh, P. 2006. Soil Microbial and Faunal Community Responses to Bt Maize and Insecticide in Two Soils. *Journal Environmental Quality ONLINE*. 35: 734-741.
- Griffiths, B., Caul, S., Thompson, J., Birch, A., Scrimgeour, C., Andersen, M., Cortet, J., Messean, A., Sausse, C., Lacroix, B., Krogh, P. 2005. A Comparison of Soil Microbial Community Structure, Protozoa and Nematodes in Field Plots of Conventional and Genetically Modified Maize Expressing the Bacillus thuringiensis Cry1Ab Toxin. *Plant and Soil*. 275 (1-2): 135 - 146.

- Hagerty, A., Turnipseed, S., Sullivan, M. 2000. Impact of Beneficial Arthropod Conservation in Bt and Conventional Cotton. Proceedings of the Beltwide Cotton Conference. 2: 976-978.
- Hanley, A., Huang, Z., Pett, W. 2003. Effects of Dietary Transgenic Bt Corn Pollen on Larvae of *Apis mellifera* and *Galleria mellonella*. Journal of Apicultural Research. 42(4): 77-81.
- Hardee, D., Bryan, W. 1997. Influence of *Bacillus thuringiensis*-Transgenic and Nectariless Cotton on Insect Populations with Emphasis on the Tarnished Plant Bug (Heteroptera: Miridae). Journal of Economic Entomology. 90: 663–668.
- Harvey, T., Martin, T., Seifers, D. 2004. Effect of Roundup Ready® Wheat on Greenbug, Russian Wheat Aphid, (homoptera: Aphididae) and Wheat Curl Mite, (acar: Eriophyidae). Journal of Agricultural and Urban Entomology. 20(4): 203 - 206.
- Harwood, J., Obrycki, J. 2006. The Detection and Decay of Cry1Ab Bt-endotoxins Within Non-target Slugs, *Deroceras Reticulatum* (mollusca: Pulmonata), following Consumption of Transgenic Corn. Biocontrol Science and Technology. 16(1): 77-88.
- Harwood, J., Samson, A., Obrycki, J. 2006. No Evidence for the Uptake of Cry1Ab Bt-endotoxins by the Generalist Predator *Scaphisoma subterraneus* -Coleoptera-Carabidae- in Laboratory and Field Experiments. Biocontrol Science and Technology. 16(4): 377-388.
- Harwood, J., Wallin, W., Obrycki, J. 2005. Uptake of Bt Endotoxins by Nontarget Herbivores Higher Order Arthropod Predators - Molecular Evidence from a Transgenic Corn Agroecosystem. Molecular Ecology. 14: 2815-2823.
- Head, G. 2007. Soil Fate and Non-Target Impact of Bt Proteins in Microbial Sprays and Transgenic Bt Crops. IN: Crop Protection Products for Organic Agriculture. Environmental, Health and Efficacy Assessment. A. Felsot, K. Racke, EDS. ACS Symposium Series 947. Chapter 15: 212-221.
- Head, G., Moar, W., Eubanks, M., Freeman, B., Ruberson, J., Hagerty, A., Turnipseed, S. 2005. A Multiyear, Large-Scale Comparison of Arthropod Populations on Commercially Managed Bt and Non-Bt Cotton Fields. Environmental Entomology. 34(5): 1257-1266.
- Head, G., Dively, G. 2004. Impacts of Transgenic Bt Crops on Non-Target Animal Species. IN Transgenic Crop Protection Concepts and Strategies. O. Koul, G. Dhaliwal, eds. Science Publishers, Inc., Enfield, NH. Chapter 10: 307-324.
- Head, G., Surber, J., Watson, J., Martin, J., Duan, J. 2002. No Detection of Cry1Ac Protein in Soil after Multiple Years of Transgenic Bt Cotton (Bollgard®) Use. Environmental Entomology. 31(1): 30-36.
- Head, G., Brown, C., Groth, M., Duan, J. 2001. Cry 1Ab Protein Levels in Phytophagous Insects Feeding on Transgenic Corn; Implications for Secondary Exposure Risk Assessment. Entomologia Experimentalis et Applicata. 99: 37-45.

- Head, G., Freeman, B., Moar, W., Ruberso, J., Turnipseed, S. 2001. Natural Enemy Abundance in Commercial Bollgard® and Conventional Cotton Fields. Proceedings of the Beltwide Cotton Production Conference, Jan. 9-13, 2001. 2: 796-797.
- Heard, M., Clark, S., Rothery, P., Perry, J., Bohan, D., Brooks, D., Champion, G., Dewar, A., Hawes, C., Haughton, A., May, M., Scott, R., Stuart, R., Squire, G., Firbank, L. 2006. Effects of Successive Seasons of Genetically Modified Herbicide-tolerant Maize Cropping on Weeds and Invertebrates. *Annals of Applied Biology*. 149: 249-254.
- Heckmann, L., Griffiths, B., Caul, S., Thompson, J., Pustai-Carey, M., Moar, W., Andersen, M., Krogh, P. 2006. Consequences for *Protaphorura armata* (Collembola: Onychiuridae) Following Exposure to Genetically Modified *Bacillus thuringiensis* (Bt) Maize and non-Bt Maize. *Environmental Pollution*. 142: 212-216.
- Hellmich, R., Prasifka, J., Anderson, P. 2005. Effects of Bt Plants on Non-target Herbivores. *Aspects of Applied Biology*. 74: 75 - 80.
- Hellmich, R., Siegfried, B. 2001. Bt Corn and the Monarch Butterfly: Research Update. IN: Gerald C. Nelson (Ed). *Genetically Modified Organisms in Agriculture Economics and Politics*. Academic Press, London.
- Hilbeck, A., Moar, W., Pustai-Carey, M., Filippini, A., Bigler, F. 1999. Prey-mediated Effects of Cry1Ab Toxin and Protoxin and Cry2A Protoxin on the Predator *Chrysoperla carnea*. *Entomologia Experimentalis et Applicata*. 91 (2):305-316.
- Hilbeck, A., Baumgartner, M., Fried, P., Bigler, F. 1998. Effects of Transgenic *Bacillus thuringiensis* Corn-Fed Prey on Mortality and Development Time of Immature *Chrysoperla carnea* (Neuroptera: Chrysopidae). *Environmental Entomology*. 27(2): 480-487.
- Hilbeck, A., Moar, W., Pustai-Carey, M., Filippini, A., Bigler, F. 1998. Toxicity of *Bacillus thuringiensis* Cry1Ab Toxin to the Predator *Chrysoperla carnea* (Neuroptera: Chrysopidae). *Environmental Entomology*. 27(5): 1255- 1263.
- Hodgson, J. 1999. Monarch Bt-Corn Paper Questioned. *Nature Biotechnology*. 17: 627.
- Hough-Goldstein, J., Vangessel, M., Wilson, A. 2004. Manipulation of Weed Communities to Enhance Ground-dwelling Arthropod Populations in Herbicide-resistant Field Corn. *Environmental Entomology*. 33(3): 577 - 586.
- Howald, R., Zwahlen, C., Nentwig, W. 2003. Evaluation of Bt Oilseed Rape on the Non-target Herbivore *Athalia rosae*. *Entomologia Experimentalis et Applicata*. 106(2): 87-93.
- Huang, F. 2006. Detection and Monitoring of Insect Resistance to Transgenic Bt Crops. *Insect Science*. 13: 73-84.
- Huang, Z., Hanley, A., Pett, W., Langenberger, M., Duan, J. 2004. Field and Semifield Evaluation of Impacts of Transgenic Canola Pollen on Survival and Development of Worker Honey Bees. *Journal Economic Entomology*. 97(5): 1517-1523.

Hussein, H., Habustova, O., Turanli, F., Sehnal, F. 2006. Potato Expressing Beetle-specific *Bacillus thuringiensis* Cry3Aa Toxin Reduces Performance of a Moth. *Journal of Chemical Ecology*. 32(1): 1-13.

Jackson, R., Pitre, H. 2004. Influence of Roundup Ready® Soybean and Roundup Ultra Herbicide on *Geocoris punctipes* (Say Heteroptera) Lygaeidae in the Laboratory. *Journal of Entomological Science*. 39(1): 55-61.

Jasinski, J., Easley, J., Young, C., Kovach, J., Willson, H. 2003. Select Non-target Arthropod Abundance in Transgenic and Non-transgenic Field Crops in Ohio. *Environmental Entomology*. 32(2): 407 - 413.

Jesse, L., Obrycki, J. 2003. Occurrence of *Danaus plexippus* L. (Lepidoptera-Danaidae) on Milkweeds (*Asclepias syriaca*) in Transgenic Bt Corn Agroecosystems. *Agriculture Ecosystems and Environment*. 97: 225-233.

Jesse, L., Obrycki, J. 2002. Assessment of the Non-target Effects of Transgenic Bt Corn Pollen and Anthers on the Milkweed Tiger Moth, *Euchaetes egle* Drury (Lepidoptera: Arctiidae). *Journal of the Kansas Entomological Society*. 75(1): 55 - 58.

Johnson, M., Gould, F. 1992. Interaction of Genetically Engineered Host Plant Resistance and Natural Enemies of *Heliothis virescens* (Lepidoptera: Noctuidae) in Tobacco. *Environmental Entomology*. 21(3): 586-597.

Kalushkov, P., Hodek, I. 2005. The Effects of Six Species of Aphids on Some Life History Parameters of the Ladybird *Propylea quatuordecimpunctata* (Coleoptera: Coccinellidae). *European Journal of Entomology*. 102: 449-452.

Kalushkov, P., Nedvěd, O. 2005. Genetically Modified Potatoes Expressing Cry3A Protein do not Affect Aphidophagous coccinellids. *Journal of Applied Entomology*. 129 (8): 401-406.

Koch, R., Hutchison, W., Venette, R. 2003. Survival of Monarch Butterfly *Danaus flexippus* (Nymphalidae), Larvae on Milkweed Near Bt Cornfields. *Journal of the Lepidopterists Society*. 57(2): 92-99

Koenning, S. 2002. Tolerance to *Hoplolaimus columbus* in Glyphosate-resistant, Transgenic Soybean Cultivars. *Journal of Nematology*. 34(4): 370-373.

Lang, A. 2004. Monitoring the Impact of Bt Maize on Butterflies in the Field: Estimation of Required Sample Sizes. *Environmental Biosafety Research*. 3: 55-66.

Lawrence, L., Tann, C., Baker, G. 2007. Refuge Crops Provide Refuge for More than *Helicoverpa*. *Australian Cottongrower*. 28(1): 26-29. URL: [www.cottongrower.com.au](http://www.cottongrower.com.au).

Li, W., Wu, K., Wang, X., Wang, G., Guo, Y. 2005. Impact of Pollen Grains from Bt Transgenic Corn on the Growth and Development of Chinese Tussah Silkworm, *Antheraea pernyi* (Lepidoptera - Saturniidae). *Environmental Entomology*. 34(4): 922-928.

Liphadzi, K., Al-Khatib, K., Bensch, C., Stahlman, P., Dille, J., Todd, T., Rice, C., Horak, M., Head, G. 2005. Soil Microbial and Nematode Communities as Affected by Glyphosate and Tillage Practices in a Glyphosate-resistant Cropping System. *Weed Science*. 53: 536-545.

Lopez, M., Prasifka, J., Bruck, D., Lewis, L. 2005. Utility of Ground Beetle Species in Field Tests of Potential Nontarget Effects of Bt Crops. *Environmental Entomology*. 34(5): 1317-1324.

Losey, J., Hufbauer, R., Hartzler, R. 2003. Enumerating Lepidopteran Species Associated with Maize as a First Step in Risk Assessment in the USA. *Environmental Biosafety Resources*. 2: 247-261.

Losey, J., Rayor, L., Carter, M. 1999. Transgenic Pollen Harms Monarch Larvae. *Nature*. 399: 214.

Lozzia, G. 1999. Biodiversity and Structure of Ground Beetle Assemblages (Coleoptera carabidae) in Bt Corn and its Effects on Non Target Insects. *Bollettino di Zoologia Agraria e di Bachicoltura*. 31. Issue 1: 37-58.

Lozzia, G., Furlanis, C., Manachini, B., Rigamonti, I. 1998. Effects of Bt Corn on *Rhopalosiphum padi* L. (Rhynchota Aphididae) and on its predator *Chrysoperla Carnea* Stephen (Neuroptera Chrysopidae). *Bollettino di Zoologia agraria e di Bachicoltura*. 30. Issue: 2: 153-164.

Ludy, C., Lang, A. 2006. A 3-year Field-scale Monitoring of Foliage-dwelling Spiders (Araneae) in Transgenic Bt Maize Fields and Adjacent Field Margins. *Biological Control: Theory and Application in Pest Management*. 38(3): 314-324.

Ludy, C., Lang, A. 2006. Bt Maize Pollen Exposure and Impact on the Garden Spider, *Araneus Diadematus*. *Entomologia Experimentalis et Applicata*. 118(2): 145 - 156.

Lumbierres, B., Albajes, R., Pons, X. 2004. Transgenic Bt Maize and *Rhopalosiphum padi* (Hom., Aphididae) Performance. *Ecological Entomology*. 29: 309-317.

Lundgren, J., Wiedenmann, R. 2005. Tritrophic Interactions Among Bt (Cry3Bb1) Corn, Aphid Prey, and the Predator *Coleomegilla maculata* (Coleoptera- Coccinellidae). *Environmental Entomology*. 34(6): 1621-1625.

Lundgren, J., Wiedenmann, R. 2004. Nutritional Suitability of Corn Pollen for the Predator *Coleomegilla maculata* (Coleoptera: Coccinellidae). *Journal of Insect Physiology*. 50 (6): 567-575.

Lundgren, J., Wiedenmann, R. 2002. Coleopteran-specific Cry3Bb Toxin from Transgenic Corn Pollen Does Not Affect the Fitness of a Non Target Species, *Coleomegilla Maculata* Degeer -coleoptera : Coccinellidae. *Environmental Entomology*. 31(6): 1213 - 1218.

Lupwayi, N., Hanson, K., Harker, K., Clayton, G., Blackshaw, R., O'Donovan, J., Johnson, E., Gan, Y., Irvine, R., Monreal, M. 2007. Soil Microbial Biomass, Functional Diversity and Enzyme Activity in Glyphosate-resistant Wheat-canola Rotations Under

Low-disturbance Direct Seeding and Conventional Tillage. *Soil Biology and Biochemistry*. 39: 1418-1427.

Manachini, B., Agosti, M., Rigamonti, I. 1999. Environmental Impact of Bt-Corn on Non Target Entomofauna: Sythesis of Field and Laboratory Studies. Human and Environmental Exposure to Xenobiotics. Proceedings of the XI Symposium Pesticide Chemistry, Cremona, Italy: 873-882.

Marvier, M., McCreedy, C., Regetz, J., Kareiva, P. 2007. A Meta-Analysis of Effects of Bt Cotton and Maize on Nontarget Invertebrates. *Science*. 316: 1475-1477.

Mattila, H., Sears, M., Duan, J. 2005. Response of *Danaus plexippus* to Pollen of Two New Bt Corn Events Via Laboratory Bioassay. *Entomologia Experimentalis et Applicata*. 116: 31-41.

McManus, B., Fuller, B., Boetel, M., French, B., Ellsbury, M., Head, G. 2005. Abundance of *Coleomegilla maculata* (Coleoptera: Coccinellidae) in Corn Rootworm-resistant Cry3Bb1 Maize. *Journal of Economic Entomology*. 98(6): 1991-1998.

McPherson, R., Johnson, W., Mullinix, Jr., B., Mills, III, W., Peebles, F. 2003. Influence of Herbicide Tolerant Soybean Production Systems on Insect Pest Populations and Pest-induced Crop Damage. *Journal of Economic Entomology*. 96(3): 690 - 698.

Meissle, M., Vojtech, E., Poppy, G. 2005. Effects of Bt Maize-fed Prey on the Generalist Predator *Poecilus cupreus* L. (Coleoptera: Carabidae). *Transgenic Research*. 14(2): 123 - 132.

Meissle, M., Lang, A. 2005. Comparing Methods to Evaluate the Effects of Bt Maize and Insecticide on Spider Assemblages. *Agriculture Ecosystems and Environment*. 107(4): 359 - 370.

Men, X., Ge, F., Edwards, C., Yardim, E. 2005. The Influence of Pesticide Applications on *Helicoverpa armigera* Hubner and Sucking Pests in Transgenic Bt Cotton and Non-transgenic Cotton in China. *Crop Protection*. 24: 319-324.

Moar, W., Eubanks, M., Freeman, B., Turnipseed, S., Ruberson, J., Head, G. 2004. Effects of Bt Cotton on Biological Control Agents in the Southeastern United States. 1st International Symposium on Biological Control of Arthropods. Pp. 275-277.

Mohr, K., Tebbe, C. 2007. Field Study Results on the Probability and Risk of a Horizontal Gene Transfer from Transgenic Herbicide-resistant Oilseed Rape Pollen to Gut Bacteria of Bees. *Applied Microbiological Biotechnology*. 10 pages. DOI 10.1007/s00253-007-0846-7.

Morjan, W., Pedigo, L. 2002. Suitability of Transgenic Glyphosate-resistant Soybeans to Green Cloverworm (Lepidoptera: Noctuidae). *Journal of Economic Entomology*. 95(6): 1275 - 1280.

Mulligan, E., Ferry, N., Jouanin, L., Walters, K., Port, G., Gatehouse, A. 2006. Comparing the Impact of Conventional Pesticide and Use of a Transgenic Pest-resistant



Crop on the Beneficial Carabid Beetle *Pterostichus melanarius*. *Pest Management Science*. 62: 999-1012.

Mullin, C., Saunders, M., Leslie, T., Biddinger, D., Fleischer, S. 2005. Toxic and Behavioral Effects to Carabidae of Seed Treatments Used on Cry3Bb1- and Cry1Ab/c-Protected Corn. *Environmental Entomology*. 34(6): 1626-1636.

Munkvold, G., Hyde, W., Hellmich, R. 2002. Nontarget Effects of Bt Corn on Pathogenic and Toxigenic Fungi. Leopold Center for Sustainable Agriculture. Competitive Grant Report 00-29. 11: 42-44.

Naranjo, S. 2005. Long-term Assessment of the Effects of Transgenic Bt Cotton on the Function of the Natural Enemy Community. *Environmental Entomology*. 34(5): 1211-1223.

Naranjo, S. 2005. Long-term Assessment of the Effects of Transgenic Bt Cotton on the Abundance of Nontarget Arthropod Natural Enemies. *Environmental Entomology*. 34(5): 1193-1210.

Naranjo, S., Head, G., Dively, G. 2005. Field Studies Assessing Arthropod Nontarget Effects in Bt Transgenic Crops: Introduction. *Environmental Entomology*. 34(5): 1178-1180.

Naranjo, S., Ellsworth, P. 2003. Arthropod Communities and Transgenic Cotton in the Western United States - Implications for Biological Control. 1st International Symposium on Biological Control of Arthropods. Pp. 284-291.

Obrist, L., Dutton, A., Albajes, R., Bigler, F. 2006. Exposure of Arthropod Predators to Cry1Ab Toxin in Bt Maize Fields. *Ecological Entomology*. 31(2): 143-154.

Obrist, L., Klein, H., Dutton, A., Bigler, F. 2006. Assessing the Effects of Bt Maize on the Predatory Mite *Neoseiulus Cucumeris*. *Experimental and Applied Acarology*. 38(2-3): 125-139.

Obrist, L., Dutton, A., Romeis, J., Bigler, F. 2006. Biological Activity of Cry1Ab Toxin Expressed by Bt Maize Following Ingestion by Herbivorous Arthropods and Exposure of the Predator *Chrysoperla Carnea*. *BioControl*. 51(1): 31-48.

Obrist, L., Klein, H., Dutton, A., Bigler, F. 2005. Effects of Bt Maize on *Frankliniella tenuicornis* and Exposure of Thrips Predators to Prey-mediated Bt Toxin. *Entomologia Experimentalis et Applicata*. 115(3): 409-416.

O'Callaghan, M., Glare, T., Burgess, E., Malone, L. 2005. Effects of Plants Genetically Modified for Insect Resistance on Nontarget Organisms. *Annual Review Entomology*. 50: 271-282.

Oliveira, A., Castro, T., Capalbo, D., Delalibera Jr., I. 2007. Toxicological Evaluation of Genetically Modified Cotton (Bollgard® and Dipel® Wp) on the Non-target Soil Mite *Scheloribates Praeincisus* (Acari: Oribatida). *Experimental and Applied Acarology*. 41(3): 191-201.

- Orr, D., Landis, D. 1997. Oviposition of European Corn Borer (Lepidoptera: Pyralidae) and Impact of Natural Enemy Populations in Transgenic Versus Isogenic Corn. *Journal of Economic Entomology*. 90(4): 905-909.
- Pedigo, L., Lewis, L., Morjan, W. 2002. Ecological Impact of Herbicides Associated with Transgenic Soybeans on Spider Mites. *Agriculture and Communities, Crop Systems, Ecology, Livestock Systems, Special Projects*. Leopold Center for Sustainable Agriculture. 11: 36-38.
- Peterson, R., Meyer, S., Wolf, A., Wolt, J., Davis, P. 2006. Genetically Engineered Plants, Endangered Species, and Risk: A Temporal and Spatial Exposure Assessment for Karner Blue Butterfly Larvae and Bt Maize Pollen. *Risk Analysis*. 26(3): 845-858
- Pham-Delegue, M., Picard-Nizou, A., Arnold, G., Grison, R., Toppan, A., Olsen, L., Masson, C. 1992. Impact of Genetically Modified Rapeseed on Insect Pollinators (Honeybees). *Second International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms*, May 11-14, 1992. Goslar, Germany: 209-217.
- Philippot, L., Kuffner, M., Cheneby, D., Depret, G., Laguerre, G., Martin-Laurent, F. 2006. Genetic Structure and Activity of the Nitrate-reducers Community in the Rhizosphere of Different Cultivars of Maize. *Plant Soil (ONLINE)*: 10 pages. DOI: 10.1007/s11104-006-9063-x.
- Pierre, J., Marsault, D., Genecque, E., Renard, M., Champolivier, J., Pham-Delegue, M. 2003. Effects of Herbicide-Tolerant Transgenic Oilseed Rape Genotypes on Honey Bees and Other Pollinating Insects Under Field Conditions. *Entomologia Experimentalis et Applicata*. 108: 159-168.
- Pilcher, C., Rice, M., Obrycki, J. 2005. Impact of Transgenic Bacillus thuringiensis Corn and Crop Phenology on Five Nontarget Arthropods. *Environmental Entomology*. 34(5): 1302-1316.
- Pilcher, C., Obrycki, J., Rice, M., Lewis, L. 1997. Preimaginal Development, Survival, and Field Abundance of Insect Predators on Transgenic Bacillus thuringiensis Corn. *Journal of Environmental Entomology*. 26(2): 446-454.
- Pilcher, C., Rice, M., Obrycki, J., Lewis, L. 1997. Field and Laboratory Evaluations of Transgenic Bacillus thuringiensis Corn on Secondary Lepidopteran Pests (Lepidoptera: Noctuidae). *Journal of Economic Entomology*. 90(2): 669-678.
- Pimentel, D., Raven, P. 2000. Bt Corn Pollen Impacts on Nontarget Lepidoptera: Assessment of Effects in Nature. *Proceedings of the National Academy of Sciences of the United States of America*. 97(15): 8198-8199.
- Pleasants J., Hellmich, R., Lewis, L. 1999. Pollen Deposition on Milkweed Leaves Under Natural Conditions and Assessment of Risk to Monarch Butterfly Larvae from Bt Pollen. Nov 2, 1999, Monarch Symposium, Chicago, IL.
- Pons, X., Lumbierres, B., Lopez, C., Albajes, R. 2004. No Effects of Bt Maize on the Development of *Orius majusculus*. *Bulletin OILB/SROP*. Proceedings of the meeting of

the IOBC/WPRS Working Group 'GMOs in Integrated Production', entitled Ecological Impact of Genetically Modified Organisms held in Prague, Czech Republic, 26-29 November 2003. 27(3): 131-136.

Ponsard, S., Gutierrez, A., Mills, N. 2002. Effect of Bt-toxin (Cry1Ac) in Transgenic Cotton on the Adult Longevity of Four Heteropteran Predators. *Environmental Entomology*. 31(6): 1197–1205.

Poppy, G. 2000. GM Crops: Environmental Risks and Non-Target Effects. *Trends In Plant Science*. 5(5): 4-6.

Prasifka, P., Hellmich, R., Prasifka, J., Lewis, L. 2007. Effects of Cry1Ab-expressing Corn Anthers on the Movement of Monarch Butterfly Larvae. *Environmental Entomology*. 36(1): 228-233.

Prasifka, J., Hellmich, R., Dively, G., Lewis, L. 2005. Assessing the Effects of Pest Management on Nontarget Arthropods - The Influence of Plot Size and Isolation. *Environmental Entomology*. 34(5): 1181-1192.

Prutz, G., Brink, A., Dettner, K. 2004. Transgenic Insect-resistant Corn Affects the Fourth Trophic Level: Effects of *Bacillus thuringiensis*-corn on the Facultative Hyperparasitoid *Tetrastichus howardi*. *Naturwissenschaften*. 91: 451-454.

Prütz, G., Dettner, K. 2004. Effect of Bt Corn Leaf Suspension on Food Consumption by *Chilo partellus* and Life History Parameters of Its Parasitoid *Cotesia flavipes* Under Laboratory Conditions. *Entomologia Experimentalis et Applicata*. 111 (3):179-187.

Ramirez-Romero, R., Bernal, J., Chaufaux, J., Kaiser, L. 2007. Impact Assessment of Bt-maize on a Moth Parasitoid, *Cotesia marginiventris* (Hymenoptera - Braconidae), via Host Exposure to Purified Cry1Ab Protein or Bt-plants. *Crop Protection*. 26: 953-962.

Raps, A., Kegr, J., Gugerli, P., Moar, W., Bigler, F., Hilbeck, A. 2001. Immunological Analysis of Phloem Sap of *Bacillus thuringiensis* Corn and of the Nontarget Herbivore *Rhopalosiphum padi* (Homoptera: Aphididae) for the Presence of Cry1Ab. *Molecular Ecology*. 10: 525-533.

Rauschen, S., Eckert, J., Gathmann, A., Schuphan, I., Romeis, J., Bigler, F. 2004. Impact of Growing Bt-maize on Cicadas: Diversity, Abundance and Methods. *Bulletin OILB/SROP*. Proceedings of the Meeting of the IOBC/WPRS Working Group 'GMOs in Integrated Production', Entitled Ecological Impact of Genetically Modified Organisms held in Prague, Czech Republic, 26-29 November 2003. 27(3): 137 - 142.

Reed, G., Jensen, A., Riebe, J., Head, G., and Duan, J. 2001. Transgenic Bt Potato and Conventional Insecticides for Colorado Potato Beetle Management: Comparative Efficacy and Non-Target Impacts. *Entomologia Experimentalis et Applicata*. 100: 89-100.

Reed, G., Puls, K., Jensen, A., Feldman, J., Berry, R. 1993. The Effect of Colorado Potato Beetle Control Measures on Non-Target Arthropods. *Proceedings of the 1993 Washington Potato Conference and Trade Fair*: 125-140.

- Reyes, S., Jovillano-Mostoles, M. 2005. Diversity, Community Structure and Wet Season Population Abundance of Insects in Bt-corn Agroecosystem in Two Sites on Luzon Island, Philippines. *Asia Life Sciences-The Asian International Journal of Life Sciences*. 14(1): 55-73.
- Reyes, S. 2005. Wet Season Population abundance of *Micraspis discolor* (Fabr.) (Coleoptera: Coccinellidae) and *Trichomma cnaphalocrosis* Uchida (Hymenoptera: Ichneuemonidae) on Three Transgenic Corn Hybrids in Two Sites in the Philippines. *Asia Life Sciences - The Asian International Journal of Life Sciences*. 14(2): 217-224.
- Riddick, E., Barbosa, P. 2000. Cry3A-Intoxicated *Leptinotarsa decemlineata* (Say) Are Palatable Prey for *Lebia grandis* Hentz. *Journal of Entomological Science*. 35(3): 342-346.
- Rodrigo-Simon, A., de Maagd, R., Avilla, C., Bakker, P., Molthoff, J., Gonzalez-Zamora, J., Ferre, J. 2006. Lack of Detrimental Effects of *Bacillus thuringiensis* Cry Toxins on the Insect Predator *Chrysoperla Carnea*: A Toxicological, Histopathological and Biochemical Analysis. *Applied and Environmental Microbiology*. 72(2): 1595-1603.
- Rodriguez, E., Fernandez-Anero, F., Ruiz, P., Campos, M. 2006. Soil Arthropod Abundance Under Conventional and No Tillage in a Mediterranean Climate. *Soil and Tillage Research*. 85: 229-233.
- Romeis, J., Dutton, A., Bigler, F. 2004. *Bacillus thuringiensis* Toxin (Cry1Ab) Has No Direct Effect on Larvae of the Green Lacewing *Chrysoperla Carnea* (stephens) (neuroptera: Chrysopidae). *Journal of Insect Physiology*. 50(2-3): 175-183.
- Romeis, J., Battini, M., Bigler, F. 2003. Transgenic Wheat with Enhanced Fungal Resistance Causes No Effects on *Folsomia candida* (collembola: Isotomidae). *Pedobiologia*. 47(2): 141-147.
- Rosca, I 2004. Impact of Genetically Modified Herbicide Resistant Maize on the Arthropod Fauna. *Bulletin OILB/SROP. Proceedings of the meeting of the IOBC/WPRS Working Group 'GMOs in Integrated Production', entitled Ecological Impact of Genetically Modified Organisms held in Prague, Czech Republic, 26-29 November 2003*. 27(3): 143 - 146.
- Sanders, C., Pell, J., Poppy, G., Raybould, A., Garcia-Alonso, M., Schuler, T. 2007. Host-plant Mediated Effects of Transgenic Maize on the Insect Parasitoid *Campoletis sonorensis* (Hymenoptera-Ichneumonidae). *Biological Control*. 40: 362-369.
- Ruiz, P., Novillo, C., Fernandez-Anero, J., Campos, M. 2001. Soil Arthropods in Glyphosate Tolerant and Isogenic Maize Lines under Different Soil-Weed Management Practices. 1 World Congress on Conservation Agriculture, Madrid, Oct 1-5, 2001. *Conservation Agriculture - A Worldwide Challenge*: 3-7.
- Saxena, D., Flores, S., Stotzky, G. 2002. Bt Toxin is Released in Root Exudates from 12 Transgenic Corn Hybrids Representing Three Transformation Events. *Soil Biology and Biochemistry*. 34(1): 133-137.

- Schmitz, G., Bartsch, D., Pretschner, P. 2003. Selection of Relevant Non-target Herbivores for Monitoring the Environmental Effects of Bt Maize Pollen. *Environmental Biosafety Research*. 2(2): 117-132.
- Schuler, T., Denholm, I., Clark, S., Stewart, C., Poppy, G. 2004. Effects of Bt Plants on the Development and Survival of the Parasitoid *Cotesia plutellae* -Hymenoptera Braconidae- in Susceptible and Bt-resistant Larvae of the Diamondback Moth, *Plutella xylostella* -Lepidoptera Plutellidae. *Journal of Insect Physiology*. 50(5): 435-443.
- Schuler, T., Potting, R., Denholm, I., Clark, S., Clark, A., Stewart, C., Poppy, G. 2003. Tritrophic Choice Experiments with Bt Plants, the Diamondback Moth - *Plutella xylostella* - and the Parasitoid *Cotesia plutellae*. *Transgenic Research*. 12: 351-361.
- Schuler, T., Potting, R., Denholm, I., Poppy, G. 2001. Effects of Bt Plants on Natural Enemies of Brassica Pests. *Proceedings of the 4th Pacific Rim Conference, Australian National University, Canberra, Australia, Nov 11-15, 2001*: 168-174.
- Schuler, T. 2000. The Impact of Insect Resistant GM Crops on Population of Natural Enemies. *Antenna*. 24(2): 59-65.
- Schuler, T., Poppy G., Kerry, B., Denholm, L. 1999. Potential Side Effects of Insect-Resistant Transgenic Plants on Arthropod Natural Enemies. *Trends in Biotechnology*. 12: 210-216.
- Sears, M. 2006. Risk of Impact and Exposure of Monarch Butterflies to Bt Maize Pollen. *The 9th International Symposium on the Biosafety of Genetically Modified Organisms, Jeju Island, Korea, 24-29 September, 2006: Biosafety Research and Environmental Risk Assessment*. Pages 142-146.
- Sears, M. 2004. Impact of *Bacillus thuringiensis* Corn Pollen on Monarch Butterfly Populations - A Risk Assessment. *ACS Symposium Series, 866, Agricultural Biotechnology*. Chapter 8: 125-137.
- Sears, M. 2002. Monarch Butterflies and Bt Corn Pollen - Risk Assessment. *Biotechnology of Bacillus thuringiensis and its Environmental Impact*. 8th International Pacific Rim Conference on Biotechnology. 160-167.
- Sears, M.K., Stanley-Horn, D., Mattila, H. 2000a. Preliminary Report on the Ecological Impact of Bt Corn Pollen on the Monarch Butterfly in Ontario. *Canadian Food Inspection Agency and Environment Canada*: 1-18.
- Sehnal, F., Habustova, O., Spitzer, L., Hussein, H., Ruzicka, V., Romeis, J., Bigler, F. 2004. A Biannual Study on the Environmental Impact of Bt Maize. *Bulletin OILB/SROP. Proceedings of the Meeting of the IOBC/WPRS Working Group 'GMOs in Integrated Production', entitled Ecological Impact of Genetically Modified Organisms held in Prague, Czech Republic, 26-29 November 2003*. 27(3): 147 - 160.
- Sessitsch, A., Smalla, K., Kandeler, E., Gerzabek, M. 2004. Effects of Transgenic Plants on Soil Micro-organisms and Nutrient Dynamics. *Plant Microbiology*. 4(1): 55 - 75.

- Sharma, H., Pampapathy, G. 2006. Influence of Transgenic Cotton on the Relative Abundance and Damage by Target and Non-target Insect Pests under Different Protection Regimes in India. *Crop Protection*. 25(8): 800-813.
- Shelton, A., Roush, R. 1999. False Reports and the Ears of Men. *Nature Biotechnology*. 17: 832.
- Shen, R., Cai, H., Gong, W. 2006. Transgenic Bt Cotton has No Apparent Effect on Enzymatic Activities or Functional Diversity of Microbial Communities in Rhizosphere Soil. *Plant and Soil*. 285(1-2): 149-159.
- Shimada, N., Miyamoto, K., Kanda, K., Murata, H. 2006. Bacillus thuringiensis Insecticidal Cry1ab Toxin does not Affect the Membrane Integrity of the Mammalian Intestinal Epithelial Cells: An In Vitro Study. *In Vitro Cellular and Developmental Biology: Animal*. 42(1-2): 45 - 49.
- Shirai, Y., Takahashi, M. 2005. Effects of Transgenic Bt Corn Pollen on a Non-target Lycacnid Butterfly, *Pseudozizeeria maha*. *Applied Entomology and Zoology*. 40(1): 151-159.
- Sims, S. 1995. Bacillus thuringiensis Var. Kurstaki (Cry1A (C)) Protein Expressed in Transgenic Cotton: Effects on Beneficial and Other Non-Target Insects. *Southwestern Entomologist*. 20(4): 493-500.
- Sims, S., Martin, J. 1997. Effect of Bacillus thuringiensis Insecticidal Proteins CryIA(b), CryIA(c), CryIIA, CryIIIA on *Folsomia candida* and *Xenylla grisea* (Insecta: Collembola). *Pedobiologia*. 41: 412-416.
- Sisterson, M., Biggs, R., Olson, C., Carriere, Y., Dennehy, T., Tabashnik, B. 2004. Arthropod Abundance and Diversity in Bt and Non-Bt Cotton Fields. *Environmental Entomology*. 33(4): 921-929.
- Smith, R. 1997. An Extension Entomologist's 1996 Observations of Bollgard® (Bt) Technology. Cotton Insect Research and Control Conference. 1997 Beltwide Cotton Conferences: 856-858.
- Steffey, K., Venditti, M., Barrido, B., Felsot, A. 2004. Effect of Bacillus thuringiensis Corn on Natural Enemies of the European Corn Borer. *ACS Symposium Series, 866 (Agricultural Biotechnology)*. 866: 139 - 150.
- Stotzky, G. 2004. Persistence and Biological Activity in Soil of the Insecticidal Proteins from Bacillus thuringiensis, Especially from Transgenic Plants. *Plant and Soil*. 266(1-2): 77 - 89.
- Torres, J., Ruberson, J. 2007. Abundance and Diversity of Ground-dwelling Arthropods of Pest Management Importance in Commercial Bt and Non-Bt Cotton Fields. *Annals of Applied Biology*. 150: 27-39.
- Torres, J., Ruberson, J., Adang, M. 2006. Expression of Bacillus thuringiensis Cry1Ac Protein in Cotton Plants, Acquisition by Pests and Predators: A Tritrophic Analysis. *Agricultural and Forest Entomology*. 8(3): 191-202.

- Torres, J., Ruberson, J. 2005. Canopy- and Ground-Dwelling Predatory Arthropods in Commercial Bt and Non-Bt Cotton Fields - Patterns and Mechanisms. *Environmental Entomology*. 34(5): 1242-1256.
- Tschenn, J., Losey, J., Hansen, L., Jesse, L., Obrycki, J., Hufbauer, R. 2001. Effects of Corn Plants and Corn Pollen on Monarch Butterfly (Lepidoptera : Danaidae) Oviposition Behavior. *Environmental Entomology*. 30(3): 495 - 500.
- Tudisco, R., Lombardi, P., Bovera, F., d'Angelo, D., Cutrignelli, M., Mastellone, V., Terzi, V., Avallone, L., Infascelli, F. 2006. Genetically Modified Soya Bean in Rabbit Feeding: Detection of DNA Fragments and Evaluation of Metabolic Effects by Enzymatic Analysis. *Animal Science*. 82(3): 193-199.
- Turrini, A., Sbrana, C., Nuti, M., Pietrangeli, B., Giovannetti, M. 2004. Development of a Model System to Assess the Impact of Genetically Modified Corn and Aubergine Plants on Aubergine Plants on Arbuscular Mycorrhizal Fungi. *Plant and Soil*. 266: 69-75
- Turlings, T., Jeanbourquin, P., Held, M., Degen, T. 2005. Evaluating The Induced-odour Emission of a Bt Maize and its Attractiveness to Parasitic Wasps. *Transgenic Research*. 14(6): 807 - 816.
- Van den Berg, J., Van Wyck, A. 2006. The Effect of Bt Maize on *Sesamia calamistis* in South Africa. *Entomologia Experimentalis et Applicata*. Online. Pages 1-7. doi:10.1111/j.1570-8703.2006.00492.x
- Van Tol, N., Lentz, G. 1998. Influence of Bt Cotton on Beneficial Arthropod Populations. *Beltwide Cotton Conferences*. 2: 1052-1054.
- Venditti, M., Steffey, K. 2004. Field Effects of Bt Corn on the Impact of Parasitoids and Pathogens on European Corn Borer in Illinois. 1st International Symposium on Biological Control of Arthropods. 278-283.
- Vercesi, M., Krogh, P., Holmstrup, M. 2006. Can Bacillus thuringiensis (Bt) Corn Residues and Bt-corn Plants Affect Life-history Traits in the Earthworm *Aporrectodea caliginosa*. *Applied Soil Ecology*. 32: 180-187.
- Vojtech, E., Meissle, M., Poppy, G. 2005. Effects of Bt Maize on the Herbivore *Spodoptera littoralis* (Lepidoptera: Noctuidae) and the Parasitoid *Cotesia marginiventris* (Hymenoptera: Braconidae). *Transgenic Research*. 14(2): 133 - 144.
- Yao, H. , Ye, G., Jiang, C. , Fan, L., Datta, K., Hu, C., Datta, S. 2006. Effect of the Pollen of Transgenic Rice Line, TT9-3 with a Fused Cry1Ab/Cry1Ac Gene from Bacillus thuringiensis Berliner on Non-target Domestic Silkworm, *Bombyx mori* Linnaeus (Lepidoptera: Bombycidae). *Applied Entomology and Zoology*. 41(2): 339-348.
- Yu, L., Berry, R., Croft, B. 1997. Effects of Bacillus thuringiensis Toxins in Transgenic Cotton and Potato on *Folsomia candida* (Collembola: Isotomidae) and *Oppia nitens* (Acari: Oribatidae). *Journal of Economic Entomology*. 90(1): 113-118.

- Weaver, M., Krutz, J., Zablutowicz, R., Reddy, K. 2007. Effects of Glyphosate on Soil Microbial Communities and its Mineralization in a Mississippi Soil. *Pest Management Science*. 63(4): 388-393.
- Weber, M., Nentwig, W. 2006. Impact of Bt-Corn on the Diplopod *Allajulus Latestriatus*. *Pedobiologia*. 50: 357-368.
- Whitehouse, M., Wilson, L., Constable, G. 2007. Target and Non-target Effects on the Invertebrate Community of Vip Cotton, a New Insecticidal Transgenic. *Australian Journal of Agricultural Research*. 58(3): 273-285.
- Whitehouse, M., Wilson, L.J., Fitt, G. 2005. A Comparison of Arthropod Communities in Transgenic Bt and Conventional Cotton in Australia. *Environmental Entomology*. 34(5): 1224-1241.
- Wolt, J., Conlan, C., Majima, K. 2006. An Ecological Risk Assessment of Cry1f Maize Pollen Impact to Pale Grass Blue Butterfly. *Environmental Biosafety Research*. 4(4): 243-251.
- Wolt, J., Peterson, R., Bystrak, P., Meade, T. 2003. A Screening Level Approach for Nontarget Insect Risk Assessment: Transgenic Bt Corn Pollen and the Monarch Butterfly (Lepidoptera: Danaidaes). *Environmental Entomology*. 32(2): 237 - 246.
- Wossink, A., Denaux, Z. 2006. Environmental and Cost Efficiency of Pesticide Use in Transgenic and Conventional Cotton Production. *Agricultural Systems*. 90: 312-328.
- Wraight, C., Zangerl, A., Carroll, M., Berenbaum, M. 2000. Absence of Toxicity of *Bacillus thuringiensis* Pollen to Black Swallowtails under Field Conditions. *Proceedings of the National Academy of Sciences of the United States of America*. 10: 1073.
- Wu, K., Peng, Y., Jia, S. 2003. What We Have Learnt on Impacts of Bt Cotton on Non-target Organisms in China. *AgBiotechNet*. 5. ABN112: 1-4.
- Xia, J., Cui, J., Ma, L., Dong, S., Cui, X. 1999. The Role of Transgenic Bt Cotton in Integrated Insect Pest Management. *Acta Gossypii Sinica*. 11. Issue 2: 57-64.
- Zablutowicz, R., Reddy, K. 2004. Impact of Glyphosate on the Bradyrhizobium japonicum Symbiosis with Glyphosate-Resistant Transgenic Soybean - A Minireview. *Journal Environmental Quality*. 33: 825-831.
- Zangerl, A., McKenna, D., Wraight, C., Carroll, M., Ficarelo, P., Warner, P., Berenbaum, M. 2001. Effects of Exposure to Event 176 *Bacillus thuringiensis* Corn Pollen on Monarch and Black Swallowtail Caterpillars Under Field Conditions. *Proceedings of the National Academies of Science (PNAS)*. 98: 11908-11912.
- Zhang, G., Wan, F., Lovei, G., Liu, W., Guo, J. 2006. Transmission of Bt Toxin to the Predator *Propylaea Japonica* (coleoptera : Coccinellidae) through its Aphid Prey Feeding on Transgenic Bt Cotton. *Environmental Entomology*. 35(1): 143-150.
- Zwahlen, C. and Andow, D. 2005. Field Evidence for the Exposure of Ground Beetles to Cry1Ab from Transgenic Corn. *Environmental Biosafety Research*. 4(2):113-117.



Zwahlen, C., Hilbeck, A., Gugerli, P., Nentwig, W. 2003. Degradation of the Cry1Ab Protein within Transgenic Bacillus thuringiensis Corn Tissue in the Field. *Molecular Ecology*. 12: 765-775.

Zwahlen, C., Andow, D. 2005. Field Evidence for the Exposure of Ground Beetles to Cry1Ab from Transgenic Corn. *Environmental Biosafety Research*. 4: 113-117.

Zwahlen, C., Hilbeck, A., Howald, R., Nentwig, W. 2003. Effects Of Transgenic Bt Corn Litter on The Earthworm *Lumbricus terrestris*. *Molecular Ecology*. 12(4): 1077-1086.

**Soil Fate/ Degradation**

Accinelli, C., Koskinen, W., Sadowsky, M. 2006. Influence of Cry1ac Toxin on Mineralization and Bioavailability of Glyphosate in Soil. *Journal of Agricultural and Food Chemistry*. 54(1): 164 - 169.

Cortet, J., Andersen, M., Caul, S., Griffiths, B., Joffre, R., Lacroix, B., Sausse, C., Thompson, J., Krogh, P. 2006. Decomposition Processes under Bt (*Bacillus thuringiensis*) Maize: Results of a Multi-site Experiment. *Soil Biology and Biochemistry*. (38)1: 195-199.

Crecchio, C., Stotzky, G. 1998. Insecticidal Activity and Biodegradation of the Toxin from *Bacillus thuringiensis* Subsp. *Kurstaki* Bound to Humic Acids From Soil. *Soil Biology and Biochemistry*. 30 (4): 463-470.

Dubelman, S., Ayden, B., Bader, B., Brown, C., Jiang, C., Vlachos, D. 2005. Cry1Ab Protein Does Not Persist in Soil After 3 Years of Sustained Bt Corn Use. *Environmental Entomology*. 34(4): 915-921.

Guan, J., Spencer, J., Ma, B. 2005. The Fate of the Recombinant DNA in Corn During Composting. *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes*. B40(3): 463 - 473.

Head, G., Surber, J., Watson, J., Martin, J., Duan, J. 2002. No Detection of Cry1Ac Protein in Soil After Multiple Years of Transgenic Bt Cotton (Bollgard®) Use. *Environmental Entomology*. 31(1): 30-36.

Hopkins, D., Gregorich, E. 2005. Decomposition of Residues and Loss of the Delta-endotoxin from Transgenic (Bt) Corn (*Zea mays* L.) In Soil. *Canadian Journal of Soil Science*. 85(1): 19 - 26.

Hopkins, D., Gregorich, E. 2003. Detection and Decay of the Bt Endotoxin in Soil from a Field Trial with Genetically Modified Maize. *European Journal of Soil Science*. 54: 793-800.

Koskella, J., Stotzky, G. 1997. Microbial Utilization of Free and Clay-Bound Insecticidal toxins from *Bacillus thuringiensis* and Their Retention of Insecticidal Activity after Incubation with Microbes. *Applied and Environmental Microbiology*. 63(9): 3561-3568.

Lachnicht, S., Hendrix, Pottr, R., Coleman, D., Crossley, D. 2004. Winter Decomposition of Transgenic Cotton Residue in Conventional-till and No-till Systems. *Applied Soil Ecology*. 27(2): 135-142.

Palm, C., Schaller, D., Donegan, K., Seidler, R. 1996. Persistence in Soil of Transgenic Plant Produced *Bacillus thuringiensis* Var. *Kurstaki* - Endotoxin. *Canadian Journal of Microbiology*. 42(12): 1258-1262.

Palm, C., Donegan, K., Harris, D., Seidler, R. 1994. Quantification in soil of *Bacillus thuringiensis* var. *kurstaki* Delta-Endotoxin From Transgenic Plants. *Molecular Ecology*. 3(2): 145-151.

- Palm, C., Seidler, R., Donegan, K., Harris, D. 1993. Transgenic Plant Pesticides: Fate and Persistence in Soil. *Plant Physiology*. Supplement 102: 166.
- Point, B., Nentwig, W. 2005. Quantification of Bt-protein Digestion and Excretion by the Primary Decomposer *Porcellio Scaber*, Fed with Two Bt-corn Varieties. *Biocontrol Science and Technology*. 15(4): 341-352.
- Rauschen, S., Schuphan, I. 2006. Fate of the Cry1ab Protein from Bt-maize Mon810 Silage In Biogas Production Facilities. *Journal of Agricultural and Food Chemistry*. 54(3): 879 - 883.
- Ream, J., Berberich, S., Sims, S., Rogan, G., Fuchs, R. 1992. In Planta Distribution and Environmental Fate of Insect Resistant Proteins. *Plant Physiology*. Supplement 99: 80.
- Saxena, D., Stewart, C., Altosaar, I., Shu, Q., Stotzky, G. 2004. Larvicidal Cry Proteins From *Bacillus thuringiensis* are Released in Root Exudates of Transgenic *B. thuringiensis* Corn, Potato, and Rice but not of *B. thuringiensis* Canola, Cotton, and Tobacco. *Plant Physiology and Biochemistry*. 42: 383-387.
- Saxena, D., Flores, S., Stotzky, G. 1999. Insecticidal Toxin In Root Exudates From Bt Corn. *Nature*. 402(6761): 480.
- Sims, S., Holden, L. 1996. Insect Bioassay for Determining Soil Degradation of *Bacillus thuringiensis* subsp. *kurstaki* CryIA(b) Protein in Corn Tissue. *Environmental Entomology*. 25(3): 659-664.
- Stotzky, G. 2002. Clays and Humic Acids Affect the Persistence and Biological Activity of Insecticidal Proteins from *Bacillus thuringiensis* in Soil. *Developments in Soil Science*, 28B - Soil Mineral-Organic Matter-Microorganism Interactions and Ecosystem Health: 1 - 16.
- Tapp, H., Stotzky, G. 1998. Persistence of the Insecticidal Toxin From *Bacillus thuringiensis* Subsp. *kurstaki* in Soil. *Soil Biology and Biochemistry*. 30(4): 471-476.
- Tapp, H., Stotzky, G.. 1995a. Dot Blot Enzyme linked Immunosorbent Assay for Monitoring the Fate of Insecticidal Toxins from *Bacillus thuringiensis* in Soil. *Applied and Environmental Microbiology*. 61(2): 602-609.
- Tapp, H., Stotzky, G. 1995b. Insecticidal Activity of the Toxins from *Bacillus thuringiensis* subspecies *kurstaki* and *tenebrionis* Adsorbed and Bound on Pure and Soil Clays. *Applied and Environmental Microbiology*. 61(5): 1786-1790.
- Venkateswerlu, G., Stotzky, G. 1992. Binding of the Protoxin and Toxin Proteins of *Bacillus thuringiensis* subsp. *kurstaki* on Clay Minerals. *Current Microbiology*. 25(4): 225-233.
- Wandeler, H., Bahylova, J., Nentwig, W. 2002. Consumption of Two Bt and Six non-Bt Corn Varieties by the Woodlouse *Porcellio scaber*. *Basic and Applied Ecology*. 3: 357-365.

Wang, H., Ye, Q., Wang, W., Wu, L., Wu, W. 2005. CryAb Protein from Bt Transgenic Rice does not Residue in Rhizosphere Soil - IN PRESS. Environmental Pollution: 7 pages.

Zwahlen, C., Hilbeck, A., Gugerli, P., Nentwig, W. 2003. Degradation of the Cry1Ab Protein within Transgenic Bacillus thuringiensis Corn Tissue in the Field. Molecular Ecology. 12: 765-775.

## **1** **Information About Glyphosate**

Bell, J., Haughton, A., Boatman., W. 2002. Do Incremental Increases of the Herbicide Glyphosate Have Indirect Consequences for Spider Communities. *The Journal of Arachnology*. 30: 288-297.

California Environmental Protection Agency. 1997. Public Health Goal for Glyphosate in Drinking Water. [http://www.oehha.ca.gov/water/phg/pdf/glypho\\_c.pdf](http://www.oehha.ca.gov/water/phg/pdf/glypho_c.pdf)

Duke, S., Rimando, A., Pace, P., Reddy, K., Smeda, R. 2002. Isoflavone, Glyphosate, and Aminomethylphosphonic Acid Levels in Seeds of Glyphosate-Treated, Glyphosate-Resistant Soybean. *Journal of Agricultural and Food Chemistry*: pages A-E.

European Commission. 2002. Review Report for the Active Substance Glyphosate. [http://europa.eu.int/comm/food/fs/ph\\_ps/pro/eva/existing/list1\\_glyphosate\\_en.pdf](http://europa.eu.int/comm/food/fs/ph_ps/pro/eva/existing/list1_glyphosate_en.pdf).

EXTOXNET (Extension Toxicology Network). 1996. Pesticide Information Profiles: Glyphosate. <http://ace.orst.edu/cgi-bin/mfs/01/pips/glyphosa.htm>.

Felsot, A.S. 2000. Giddy 'bout Glyphosate (Herbicide Tolerant Genes, Part 2). *Agrichemical & Environmental News*. 175: 6-14.  
<http://www.tricity.wsu.edu/aenews/Nov00AENews/NovAENews00.pdf> (page 6)

Franz, J., Mao, M., Sikorski, J. 1997. Glyphosate: A Unique Global Herbicide. ACS Monograph. 189. American Chemical Society, Washington DC.

Giesy, J., Dobson, S., Solomon, K. 2000. Ecotoxicological Risk Assessment for Roundup Herbicide. *Reviews of Environmental Contamination and Toxicology*. 167: 35-120.

Haney, R., Senseman, S., Hons, F. 2002. Bioremediation and Biodegradation - Effect of Roundup Ultra on Microbial Activity and Biomass from Selected Soils. *Journal Environmental Quality*. 31: 730-735.

Malik, J., Barry, G., Kishore, G. 1989. The Herbicide Glyphosate. *Biofactors*. 2(1): 17-25.

Rueppel, M., Brightwell, B., Schaefer, J., Marvel, J. 1977. Metabolism and Degradation of Glyphosate In Soil And Water. *Journal of Agricultural and Food Chemistry*. 25(3): 517-528.

Sullivan, D., Sullivan, T. 2000. Non-Target Impacts of the Herbicide Glyphosate: A Compendium of References and Abstracts. 5th Edition. Applied Mammal Research Institute, Summerland, British Columbia, Canada.

U.S. Environmental Protection Agency (EPA). 1993. Reregistration Eligibility Decision (RED): Glyphosate. Office of Prevention, Pesticides and Toxic Substances, Washington, DC.  
[http://www.epa.gov/oppsrrd1/REDs/old\\_reds/glyphosate.pdf](http://www.epa.gov/oppsrrd1/REDs/old_reds/glyphosate.pdf)

U.S. Environmental Protection Agency (EPA). 2002. National Primary Drinking Water Regulations, Technical Fact Sheet. Accessed 5/13/05.

<http://www.epa.gov/safewater/mcl.html>

Williams, G., Kroes, R., Munro, I. 2000. Safety Evaluation and Risk Assessment of the Herbicide Roundup and its Active Ingredient, Glyphosate, for Humans. Regulatory Toxicology Pharmacology. 31(2): 117-165.

World Health Organization (WHO). 1994. Glyphosate: Environmental Health Criteria 159. Geneva, Switzerland.

<http://www.inchem.org/documents/ehc/ehc/ehc159.htm>

## **Insect Resistance Management**

1998. Supplement to: Bt Corn and European Corn Borer: Long-Term Success Through Resistance Management, NCR-602. Regional Research Committee, NC 205. 8-30-2000: 1-10. <http://ent.agri.umn.edu/ecb/NCR-602%20Supplement.pdf>

Abel, C., Adamczyk Jr., J. 2004. Relative Concentration of Cry1A in Maize Leaves and Cotton Bolls with Diverse Chlorophyll Content and Corresponding Larval Development of Fall Armyworm (Lepidoptera: Noctuidae) and Southwestern Corn Borer (Lepidoptera: Crambidae) on Maize Short Leaf Profiles. *Journal of Economic Entomology*. 97(5): 1737-1744.

Adamczyk, J., Holloway, J., Leonard, B., Graves, J. 1997. Insect Research and Control: Susceptibility of Fall Armyworm Collected from Different Plant Hosts to Selected Insecticides and Transgenic Bt Cotton. *The Journal of Cotton Science*. 1(1): 21-28.

Alinia, F., Cohen, M., Gould, F. 2000. Heritability of Tolerance to the Cry1Ab Toxin of Bacillus thuringiensis in *Chilo suppressalis* (Lepidoptera: Crambidae). *Journal of Economic Entomology*. 93(1): 14-17.

Alstad, D., Andow, D. 1995. Managing the Evolution of Insect Resistance to Transgenic Plants. *Science*. 268: 1894.

Andow, D. 2003. Adaptive Resistance Management In Bt Maize. The BCPC Conference: Pests and diseases, Volumes 1 and 2. Proceedings of an international conference held at the Brighton Hilton Metropole Hotel, Brighton, UK, 18-21 November 2002 . 1/2: 1035 - 1042.

Andow, D., Olson, D., Hellmich, R., Alstad, D., Hutchinson, W. 2000. Frequency of Resistance to Bacillus thuringiensis Toxin Cry1Ab in an Iowa Population of European Corn Borer (Lepidoptera: Crambidae). *Journal of Economic Entomology*. 93(1): 26-30.

Andow, D., Alstad, D., Pand, Y., Bolin, P., Hutchison, W. 1998. Using the F2 Screen to Find Bt Resistance Genes in European Corn Borer (Lepidoptera:Crambidae). *Journal of Economic Entomology*. 91: 579-584.

Andow, D., Hutchison, W. 1998. Bt Corn Resistance Management. In *Now or Never: Serious New Plans to Save a Natural Pest Control*: 19-66.

Ballester, V., Escriche, B., Mensua, J., Riethmacher, G., Ferre, J. 1994. Lack of Cross-Resistance to Other Bacillus thuringiensis Crystal Proteins in a Population of *Plutella xylostella* Highly Resistant to CryIAb. *Biocontrol Science and Technology*. 4: 437.

Bontemps, A., Bourguet, D., Pelozuelo, L., Bethenod, M., Ponsard, S. 2004. Managing the Evolution of *Bacillus thuringiensis* Resistance in Natural Populations of the European Corn Borer, *Ostrinia nubilalis*: Host Plant, Host Race and Pherotype of Adult Males at Aggregation Sites. *Proceedings of Royal Society London*. 271: 2179-2185

- Bourguet, D., Desquilbet, M., Lemarie, S. 2005. Regulating Insect Resistance Management - The Case of Non-Bt Corn Refuges in the US. *Journal of Environmental Management*. 76(3): 210-220.
- Bourguet, D., Bethenod, M., Pasteur, N., Viard, F. 2000. Gene Flow in the European Corn Borer *Ostrinia nubilalis* - Implications for the Sustainability of Transgenic Insecticidal Maize Proceedings of the Royal Society of London Series B Biological Sciences. 267(1439): 117-122.
- Cao, J., Tang, J., Strizhov, N., Shelton, A., Earle, E. 1999. Transgenic Broccoli with High Levels of Bacillus thuringiensis Cry1C Protein Control Diamondback Moth Larvae Resistant to Cry1A or Cry1C. *Molecular Breeding*. 5: 131-141.
- Caprio, M. 1998. Evaluating Resistance Management Strategies for Multiple Toxins in the Presence of External Refuges. *Journal of Economic Entomology*. 91: 1021-1031.
- Carriere, Y., Eilers-Kirk, C., Sisterson, M., Antilla, L., Whitlow, M., Dennehy, T., Tabashnik, B. 2003. Long-term Regional Suppression of Pink Bollworm by Bacillus thuringiensis Cotton. *Proceedings of the National Academy of Sciences*. 100(4): 1519-1523.
- Chege, P., Clark, T., Hibbard, B. 2005. Alternate Host Phenology Affects Survivorship, Growth, and Development of Western Corn Rootworm (Coleoptera: Chrysomelidae) Larvae. *Environmental Entomology*. 34(6): 1441-1447.
- Chilcutt, C. 2006. Cannibalism of *Helicoverpa zea* (Lepidoptera: Noctuidae) from *Bacillus thuringiensis* (Bt) Transgenic Corn Versus Non-Bt Corn. *Journal of Economic Entomology*. 99(3): 728-732
- Chilcutt, C. 2003. Gene Flow from Bt Transgenic Corn to NonBt Corn - Can Refuges Speed the Evolution of Pest Resistance ? The BCPC International Congress - Crop Science and Technology 2003. 10-12 November: 765-769.
- Clark, T., Hibbard, B. 2004. Comparison of Non-maize Hosts to Support Western Corn Rootworm (coleoptera: Chrysomelidae) Larval Biology. *Environmental Entomology*. 33(3): 681 - 689.
- Coates, B., Sumerford, D., Hellmich, D., Lewis, R., Lewis, L. 2005. Sequence Variation in the Cadherin Gene of *Ostrinia Nubilalis* - a Tool for Field Monitoring. *Insect Biochemistry and Molecular Biology*. 29(2): 129-139.
- Comis, D. 2004. Testing Two Corn Rootworm Controls. *Agricultural Research*. January: 4-8.
- Coombs, J., Douches, D., Li, W., Grafius, E., Pett, W. 2003. Field Evaluation of Natural, Engineered, and Combined Resistance Mechanisms in Potato for Control of Colorado Potato Beetle. *Journal of the American Society for Horticultural Science*. 128(2): 219-224.



Crowder, D., Onstad, D., Gray, M. 2006. Planting Transgenic Insecticidal Corn Based on Economic Thresholds: Consequences for Integrated Pest Management and Insect Resistance Management. *Journal of Economic Entomology*. 99(3): 899-907.

Davidson, M., Conner, A. 2003. *Solanum* Weeds as Hosts for *Phthorimaea operculella*: Implications for Resistance Management of Genetically Modified Potatoes (*Solanum tuberosum*). *New Zealand Journal of Crop and Horticultural Science*. 31(2): 91-97.

Davis, P., Onstad, D. 2000. Seed Mixtures as a Resistance Management Strategy for European Corn Borer (Lepidoptera: Crambidae) Infesting Transgenic Corn Expressing Cry1Ab Protein. *Journal of Economic Entomology*. 93(3): 937-948.

Ellsbury, M., Banken, K., Clay, S., Forcella, F. 2005. Interactions Among Western Corn Rootworm (coleoptera : Chrysomelidae), Yellow Foxtail, and Corn. *Environmental Entomology*. 34(3): 627 - 634.

Estada, U., Ferré, J. 1994. Binding of Insecticidal Crystal Proteins of *Bacillus thuringiensis* to the Midgut Brush Border of the Cabbage Looper, *Trichoplusia in* (Hübner) (Lepidoptera: Noctuidae), and Selection for Resistance to One of the Crystal Proteins. *Applied and Environmental Microbiology*. 60(10): 3840.

Ferre, J., Van Rie, J. 2002. Biochemistry and Genetics of Insect Resistance to *Bacillus thuringiensis*. *Annual Review of Entomology*. 47: 501-533.

Ferre, J., Real, M., Van Rie, J., Jansens, S., Peferoen, M. 1991. Resistance to the *Bacillus thuringiensis* Bioinsecticide in a Field Population of *Plutella xylostella* is Due to a Change in a Midgut Membrane Receptor. *Proceedings of the National Academy of Sciences of the United States of America*. 88: 5119-5123.

Fitt, G., Wilson, L. 2000. Genetic Engineering in IPM - Bt Cotton. IN *Emerging Technologies for Integrated Pest Management - Concepts, Research and Implementation*. Edited by G. Kennedy, T. Sutton: pages 108-125.

Fox, J. 2003. Resistance to Bt Toxin Surprisingly Absent from Pests. *Nature Biotechnology*. 21(9): 958-959.

Gassmann, A., Stock, S., Carriere, Y., Tabashnik, B. 2006. Effect of Entomopathogenic Nematodes on the Fitness Cost of Resistance to Bt Toxin Cry1Ac in Pink Bollworm (Lepidoptera: Gelechiidae). *Journal of Economic Entomology*. 99(3): 920-926.

Glaser, J., Maten, S. 2003. Sustainability Of Insect Resistance Management Strategies for Transgenic Bt Corn. *Biotechnology Advances*. 22: 45-69.

Gore, J., Adamczyk, Jr., J. 2004. Characterization of Soybean Looper -Lepidoptera- Noctuidae- Tolerance to Bollgard® Cotton. - Implications for Resistance Management. *Journal of Entomological Science*. 39(2): 235-242.

Gould, F., Blair, N., Reid, M., Rennie, T., Lopez, J., Micinski, S. 2002. *Bacillus thuringiensis*-toxin Resistance Management: Stable Isotope Assessment of Alternate Host use by *Helicoverpa zea*. *Proceedings of the National Academy of Sciences of the*

United States of America. 99(26): 16581-16586.

Gould, F. 1998. Evolutionary Biology and Genetically Engineered Crops. Bioscience. 38: 26.

Gould, F. 1998. Sustainability of Transgenic Insecticidal Cultivars: Integrating Pest Genetics And Ecology. Annual Review of Entomology. 43: 701-726.

Gould, F., Anderson, A., Jones, A., Sumerford, D., Heckel, D., Lopez, J., Micinski, S., Leonard, R., Laster, M. 1997. Initial Frequency of Alleles for Resistance to Bacillus thuringiensis Toxins in Field Populations of *Heliothis virescens*. Proceedings of the National Academy of Sciences of the United States of America. 94: 3519-3523.

Green, W.M., de Billot, M., Joffe, T., van Staden, L., Bennett-Nel, A., du Toit, C., van der Westhuizen, L. 2003. Indigenous Plants and Weeds on the Makhathini Flats as Refuge Hosts to Maintain Bollworm Population Susceptibility to Transgenic Cotton - Bollgard®. African Entomology. 11(1): 21-29.

Greenplate, J., Mullins, J. 2003. Partial Characterization of Cotton Plants Expressing Two Toxin Proteins From Bacillus thuringiensis: Relative Toxin Contribution, Toxin Interaction, and Resistance Management. Journal of Applied Entomology-Zeitschrift Fur Angewandte Entomologie. 127(6): 340-347.

Gustafson, D., Head, G., Caprio, M. 2006. Modeling the Impact of Alternative Hosts on *Helicoverpa zea* Adaptation to Bollgard® Cotton. Journal of Economic Entomology. 99(6): 2116-2124.

Hagerty, A., Kilpatrick, A., Turnipseed, S., Sullivan, M., Bridges, W. 2005. Predaceous Arthropods and Lepidopteran Pests on Conventional, Bollgard®, and Bollgard® II Cotton Under Untreated and Disrupted Conditions. Environmental Entomology. 34(1): 105 - 114.

Halcomb, J., Benedict, J., Cook, B., Ring, D., Correa, J. 2000. Feeding Behavior of Bollworm and Tobacco Budworm (Lepidoptera: Noctuidae) Larvae in Mixed Stands of Nontransgenic and Transgenic Cotton Expressing and Insecticidal Protein. Journal of Economic Entomology. 93(4): 1300-1307.

Hardee, D., Van Duyn, J., Layton, M., Bagwell, R. 2001. Bt Cotton for Management of Tobacco Budworm and Bollworm. USDA Agricultural Research Service. ARS154: 1-37.

He, K., Wang, Z., Bai, S., Zheng, L., Wang, Y., Cui, H. 2006. Efficacy of Transgenic Bt Cotton for Resistance to the Asian Corn Borer (Lepidoptera: Crambidae). Crop Protection. 25: 167-173.

Head, G. 2004. Adapting Insect Resistance Management Strategies for Transgenic Bt Crops to Developing World Needs. 8th International Symposium on the Biosafety of Genetically Modified Organisms, Montpellier, France. September 26-30, 2004. Pages 16-26.

Hibbard, B., Vaughn, T., Oyediran, I., Clark, T., Ellersieck, M. 2005. Effect of Cry3Bb1-expressing Transgenic Corn on Plant-to-plant Movement by Western Corn Rootworm Larvae (coleoptera : Chrysomelidae). *Journal of Economic Entomology*. 98(4): 1126 - 1138.

Hilbeck, A. 2003. Transgenic Crops and Integrated Pest Management. The BCPC Conference: Pests and Diseases, Volumes 1 and 2. Proceedings of an International Conference Held at the Brighton Hilton Metropole Hotel, Brighton, UK, 18-21 November 2002. 1/2: 1021 - 1028.

Hoy, C. 1999. Colorado Potato Beetle Resistance Management Strategies for Transgenic Potatoes. *American Journal Of Potato Research*. 76 (4): 215-219.

Huang, F., Leonard, B., Gable, R. 2006. Comparative Susceptibility of European Corn Borer, Southwestern Corn Borer, and Sugarcane Borer (Lepidoptera: Crambidae) to Cry1Ab Protein in a Commercial Bacillus thuringiensis Corn Hybrid. *Journal of Economic Entomology*. 99(1): 194-202.

Huang, F., Buschman, L., Higgins, R., Li, H. 2002. Survival of Kansas Dipel-resistant European Corn Borer (Lepidoptera: Crambidae) on Bt and Non-Bt corn hybrids. *Journal of Economic Entomology*. 95(3): 614-621.

Ives, A., Andow, D. 2002. Evolution of Resistance to Bt crops: Directional Selection in Structured Environments. *Ecology Letters*. 5(6): 792-801.

Lawrence, L., Schellhorn, N., Whitehouse, M., Baker, G. 2003. Conserving and Promoting Parasitoids of *Helicoverpa* in Cotton. *Pesticide Outlook*. 14(5): 219-221.

Lee, M., Miles, P., Chen, J. 2006. Brush Border Membrane Binding Properties of Bacillus thuringiensis Vip3a Toxin to *Heliothis virescens* and *Helicoverpa Zea* Midguts. *Biochemical and Biophysical Research Communications*. 339(4): 1043 - 1047.

Li, Y., Greenberg, S., Liu, T. 2006. Effects of Bt Cotton Expressing Cry1ac And Cry2ab and Non-Bt Cotton on Behavior, Survival and Development of *Trichoplusia Ni* (lepidoptera: Noctuidae). *Crop Protection*. 25(9): 940-948.

Liu, T., Tabashnik, B. 1997. Experimental Evidence that Refuges Delay Insect Aadaptation to Bacillus thuringiensis. *Proceedings of the Royal Society of London B*. 264: 605.

MacIntosh, S., Stone, T., Jokerst, S., Fuchs, R. 1991. Binding of Bacillus thuringiensis Proteins to a Laboratory-Selected Line of *Heliothis virescens*. *Proceedings of the National Academy of Sciences of the United States of America*. 88(20): 8930-8933.

Mallet, J., Porter, P. 1992. Preventing Insect Adaptation To Insect-Resistant Crops: Are Seed Mixtures or Refugia the Best Strategy? *Proceedings of the Royal Society of London B*. 255: 65.

Martel C, Rejasse A, Rousset F, Bethenod MT, Bourguet D. 2003. Host-plant-associated Genetic Differentiation in Northern French Populations of the European Corn Borer. *Heredity*. 90(2): 141-149.

- Martinelli, S., Clark, M.I., Zucchi, M.C., Silva-Filho, J.E., Foster, C., Omoto, C.. 2007. Genetic Structure and Molecular Variability of *Spodoptera Frugiperda* (Lepidoptera: Noctuidae) Collected in Maize and Cotton Fields in Brazil. *Bulletin of Entomological Research*. 97: 225-231.
- Martinez-Carrillo, J., Camberos, U., Berdegue, M. 2000. Monitoring for Tolerance to Cry IA(c) in Populations of *Heliothis virescens* from Mexico. *Proceedings of the Beltwide Cotton Conference*. 2: 1017-1019.
- Matten, S., Reynolds, A. 2003. Current Resistance Management Requirements for Bt Cotton in the United States. Special Issue: *Bacillus thuringiensis*. A Cornerstone of Modern Agriculture, Part II. *Journal of New Seeds*. 5(2-3): 137-178.
- McGaughey, W., Whalon, M. 1992. Managing Insect Resistance to *Bacillus thuringiensis* Toxins. *Science*. 258: 1451.
- McGaughey, W., Beeman, R. 1988. Resistance to *Bacillus thuringiensis* in Colonies of Indianmeal Moth and Almond Moth (Lepidoptera: Pyralidae). *Journal of Economic Entomology*. 81: 28.
- Mellon, M., Rissler, J. 1999. Now or Never: Serious New Plans to Save a Natural Pest Control. M. Mellon and J. Rissler, editors. 150pp.
- Miller, N., Kim, K., Ratcliffe, T., Estoup, A., Bourguet, D., Guillemaud, T. 2006. Absence of Genetic Divergence Between Western Corn Rootworms (Coleoptera: Chrysomelidae) Resistant and Susceptible to Control by Crop Rotation. *Journal of Economic Entomology*. 99(3): 685-690
- Morin, S., Biggs, R., et al. 2003. Three Cadherin Alleles Associated with Resistance to *Bacillus thuringiensis* in Pink Bollworm. *Proceedings of the National Academy of Sciences of the United States of America*. 100(9): 5004-5009.
- Nava-Camberos, U., Sanchez-Galvan, H., Lopez-Ríos, E., Martinez-Carrillo, J. 2000. Monitoring of the Pink Boll Worm Susceptibility to the Bt Endotoxin (Cry1Ac) in Mexico. 2000 Proceedings Beltwide Cotton Conferences, San Antonio, USA. Pages 1339-1342.
- Ostlie, K., Hutchinson, W., Hellmich, R. 1997. Bt-Corn and European Corn Borer: Long-Term Success Through Resistance Management. North Central Regional Extension Publication. NCR 602: 1-18.
- Oyediran, I., Hibbard, B., Clark, T. 2005. Western Corn Rootworm (coleoptera : Chrysomelidae) Beetle Emergence from Weedy Cry3Bb1 Rootworm-resistant Transgenic Corn. *Journal of Economic Entomology*. 98(5): 1679 - 1684.
- Oyediran, I., Hibbard, B., Clark, T. 2004. Prairie Grasses as Hosts of the Western Corn Rootworm (Coleoptera: Chrysomelidae). *Environmental Entomology*. 33(3): 740-747.
- Patin, A., Dennehy, T., Sims, M., Tabashnik, B., Liu, Y., Antilla, L., Gouge, D., Henneberry, T., Staten, R. 1999. Status of Pink Bollworm Susceptibility to Bt in Arizona. *Proceedings of the Beltwide Cotton Conference*. 2: 991-996.

- Peterson, R. 2006. Biotechnology and Comparative Risk Assessment. ISB News Report. February 2006. 1-3
- Pierce, C., Weinzierl, R., Steffey, K. 1998. First-Year Results of a Survey for European Corn Borer Resistance to Bacillus thuringiensis. IN Proceedings of the Illinois Agricultural Pesticides Conference (Cooperative Extension Service, College of Agricultural, Consumer and Environmental Sciences, University of Illinois at Champaign-Urbana January 6-8, 1998): 67-68.
- Pittendrigh, B., Gaffney, P., Huesing, J., Onstad, D., Roush, R., Murdock, L. 2004. Active Refuges Can Inhibit the Evolution of Resistance in Insects Towards Transgenic Insect-resistant Plants. *Journal of Theoretical Biology*. 231: 461-474.
- Price, J., Hyde, J., Calvin, D. 2006. Insect Resistance Management for Bt Corn - An Assessment of Community Refuge Schemes. *AgBioForum*. 9(3): 129-138.
- Qureshi, J., Buschman, L., Throne, J., Ramaswamy, S. 2006. Dispersal of Adult *Diatraea grandiosella* (Lepidoptera-Crambidae) and its Implications for Corn Borer Resistance Management in Bacillus thuringiensis Maize. *Annals Entomological Society of America*. 99(2): 279-291.
- Qureshi, J., Buschman, L., Throne, J., Ramaswamy, S. 2005. Adult Dispersal of *Ostrinia nubilalis* Hubner -Lepidoptera-Crambidae- and its Implications for Resistance Management in Bt-Maize. *Journal of Applied Entomology*. 129(6): 281-292.
- Ravi, K., Mohan, K., Manjunath, T., Head, G., Patil, B., Greba, D., Premalatha, K., Peter, J., Rao, N. 2005. Relative Abundance of *Helicoverpa armigera* (Lepidoptera: Noctuidae) on Different Host Crops in India and the Role of These Crops as Natural Refuge for *Bacillus thuringiensis* Cotton. *Environmental Entomology*. 34(1): 59 - 69.
- Reardon, R., Hellmich, R., Sumerford, D., Lewis, L. 2004. Growth, Development and Survival of *Nosema pyrausta*-Infected European Corn Borers (Lepidoptera: Crambidae) Reared on Meridic Diet and Cry1Ab. *Journal of Economic Entomology*. 97(4): 1198-1201.
- Roush, R.T. 1997. Bt-Transgenic Crops: Just Another Pretty Insecticide or a Chance For a New Start In Resistance Management? *Pesticide Science*. 51: 328-334.
- Roush, R. 1996. Can We Slow Adaptation by Pests to Insect Resistant Crops? IN G.J. Persley (editors), *Biotechnology and Integrated Pest Management*. CAB Int., Oxon, UK: 242.
- Roush, R. 1994. Managing Pests and Their Resistance to Bacillus thuringiensis: Can Transgenic Crops be Better Than Sprays? *Biocontrol Science and Technology*. 4: 501-516.
- Roush, R., Tingey, W. 1994. Strategies for Management of Insect Resistance to Synthetic and Microbial Insecticides. IN *Advances in Potato Pest Biology and Management* (American Phytopathological Society Press, St. Paul, MN).

- Saeglitz, C., Bartsch, D., Eber, S., Gathmann, A., Priesnitz, K., Schuphan, I. 2006. Monitoring the Cry1Ab Susceptibility of European Corn Borer in Germany. *Journal of Economic Entomology*. 99(5): 1768-1773.
- Saher, M., Lindeman, M., Hursti, U. 2006. Attitudes Towards Genetically Modified and Organic Foods. *Appetite*: 46: 324-331.
- Sanden, M., Krogdahl, A., Bakke-McKeller, A., Buddington, R., Hemre, G. 2006. Growth Performance and Organ Development in Atlantic Salmon, *Salmo salar* L. Parr Fed Genetically Modified (GM) Soybean and Maize. *Aquaculture Nutrition*. 12: 1-14.
- Schneider, J. 2003. Overwintering of *Heliothis virescens* (f.) and *Helicoverpa zea* (boddie) (Lepidoptera: Noctuidae) in Cotton Fields of Northeast Mississippi. *Journal of Economic Entomology*. 96(5): 1433-1447.
- Scott, L., Lawrence, N., Lange, C., Graham, G., Hardwick, S., Rossiter, L., Dillon, M., Scott, K. 2006. Population Dynamics and Gene Flow of *Helicoverpa armigera* (Lepidoptera: Noctuidae) on Cotton and Grain Crops in the Murrumbidgee Valley, Australia. *Journal of Economic Entomology*. 99(1): 155-163.
- Shelton, A., Tang, J., Roush, R., Metz, T., Earle, E. 2000. Field Tests on Managing Resistance to Bt-Engineered Plants. *Nature Biotechnology*. 18(3): 339-342.
- Siegfried, B., Spencer, T., Nearman, J. 2000. Baseline Susceptibility of the Corn Earworm (Lepidoptera: Noctuidae) to the Cry1Ab Toxin from *Bacillus thuringiensis*. *Journal of Economic Entomology*. 93(4): 1265-1268.
- Singh, R., Channappa, R., Deeba, F., Nagaraj, N., Sukavaneaswaran, M., Manjunath, T. 2005. Tolerance of Bt Corn (MON810) to Maize Stem Borer, *Chilo partellus* (Lepidoptera: Pyralidae). *Plant Cell Reports*. 24(9): 556 - 560.
- Siqueira, H., Moellenbeck D., Spencer, T., Siegfried, B. 2004. Cross-resistance of Cry1Ab-selected *Ostrinia nubilalis* (Lepidoptera: Crambidae) to *Bacillus thuringiensis*. *Journal of Economic Entomology*. 97(3): 1049-1057.
- Spencer, J., Mabry, T., Vaughn, T. 2003. Use of Transgenic Plants to Measure Insect Herbivore Movement. *Journal of Economic Entomology*. 96(6): 1738 - 1749.
- Stodola, T., Andow, D., Hyden, A., Hinton, J., Roark, J., Buschman, L., Porter, P., Cronholm, G. 2006. Frequency of Resistance to *Bacillus thuringiensis* Toxin Cry1Ab in Southern United States Corn Belt Population of European Corn Borer (Lepidoptera; Crambidae). *Journal of Economic Entomology*. 99(2): 502-507.
- Storer, N., Babcock, J., Edwards, J. 2006. Field Measures of Western Corn Rootworm (Coleoptera: Chrysomelidae) Mortality Caused By Cry34/35Ab1 Proteins Expressed in Maize Event 59122 and Implications for Trait Durability. *Journal of Economic Entomology*. 99(4): 1381-1387.
- Sumerford, D., Hardee, D., Adams, L., Solomon, W. 1999. Status of Monitoring for Tolerance to CryIAc in Populations of *Helicoverpa zea* and *Heliothis virescens*: Three-Year Summary. *Proceedings of the Beltwide Cotton Conference*. 2: 936-939.

Tabashnik, B., Fabrick, J., Henderson, S., Biggs, R., Yafuso, C., Nyboer, M., Manhardt, N., Coughlin, L., Sollome, J., Carriere, Y., Dennehy, T., Morin, S. 2006. DNA Screening Reveals Pink Bollworm Resistance to Bt Cotton Remains Rare After a Decade of Exposure. *Journal of Economic Entomology*. 99(5): 1525-1530.

Tabashnik, B., Dennehy, T., Carriere, Y. 2005. Delayed Resistance to Transgenic Cotton in Pink Bollworm. *PNAS Proceedings of National Academy of Science*. 102(43): 15389-15393.

Tabashnik, B., Gould, F., Carriere, Y. 2004. Delaying Evolution of Insect Resistance to Transgenic Crops by Decreasing Dominance and Heritability. *Journal of Evolutionary Biology*. 17: 904-912.

Tabashnik, B., Dennehy, T., Carriere, Y., Liu, Y., Meyer, S., Patin, A., Sims, M., Ellers-Kirk, C. 2004. Resistance Management - Slowing Pest Adaptation to Transgenic Crops. *Acta Agriculturae Scandinavica Section B-Soil and Plant Science*. 53: 51-56.

Tabashnik, B., Carriere, Y. 2004. Bt Transgenic Crops Do Not Have Favorable Effects on Resistant Insects. *Journal of Insect Science*. 4(4): 1-3.

Tabashnik, B., Carriere, Y., Dennehy, T., Morin, S., Sisterson, M., Roush, R., Shelton, A., Zhao, J. 2003. Insect Resistance to Transgenic Bt Crops - Lessons from the Laboratory and Field. *Journal of Economic Entomology*. 96(4): 1031-1038.

Tabashnik, B., Patin, A., Dennehy, T., Liu, Y., Carriere, Y., Sims, M., Antilla, L. 2000. Frequency of Resistance to Bacillus thuringiensis in Field Populations of Pink Bollworm. *Proceedings of the National Academy of Sciences*. 97(24): 12980-12984.

Tabashnik, B. 1994. Delaying Insect Adaptation to Transgenic Plants: Seed Mixtures and Refugia Reconsidered. *Proceedings of the Royal Society of London B*. 255: 7.

Tabashnik, B. 1994. Evolution of Resistance to Bacillus thuringiensis. *Annual Review of Entomology*. 39: 47-79.

Tabashnik, B., Schwartz, J., Finson, N., Johnson, M. 1992. Inheritance of Resistance to Bacillus thuringiensis in Diamondback Moth (Lepidoptera: Plutellidae). *Journal of Economic Entomology*. 85: 1046.

Teran-Vargas, A., Rodriguez, J., Blanco, C., Martinez-Carrillo, J., Cibrian-Tovar, J., Sanchez-Arroyo, H., Rodriguez-Del-Bosque, L., Stanley, D. 2005. Bollgard Cotton and Resistance of Tobacco Budworm (Lepidoptera: Noctuidae) to Conventional Insecticides in Southern Tamaulipas, Mexico. *Journal of Economic Entomology*. 98(6): 2203-2209.

Torres, J., Ruberson, J. 2006. Spatial and Temporal Dynamics of Oviposition Behavior of Bollworm and Three of its Predators in Bt and Non-Bt Cotton Fields. *Entomologia Experimentalis et Applicata*. 120(1): 11-22.

Vacher, C., Bourguet, D., Rousset, F., Chevillon, C., Hochberg, M. 2004. High Dose Refuge Strategies and Genetically Modified Crops - Reply to Tabshnik et al. *Journal of Evolutionary Biology*. 17: 913-918.

- Venette, R., Hutchison, W., Andow, D. 2000. An In-Field Screen for Early Detection and Monitoring of Insect Resistance to Bacillus thuringiensis in Transgenic Crops. *Journal of Economic Entomology*. 93(4): 1055-1064.
- Welsh, R. 2002. GM Crops and the Pesticide Paradigm. *Nature Biotechnology*. 20(6): 548-549.
- Whalon, M., Norris, D. 1999. Managing Target Pest Adaption: The Case Of Bt Transgenic Plant Deployment. IN: *Managing Agricultural Biotechnology*. International Service for National Agricultural Research (ISNAR). Chapter 17: 194-205.
- Wierenga, J., Norris, D., Whalon, M. 1996. Stage-Specific Mortality of Colorado Potato Beetle (Coleoptera: Chrysomelidae) Feeding on Transgenic Potatoes. *Journal of Economic Entomology*. 89: 1047.
- Wu, K., Guo, Y., Head, G. 2006. Resistance Monitoring of *Gelicoverpa armigera* (Lepidoptera: Noctuida) to Bt Insecticidal Protein During 2001-2004 in China. *Journal of Economic Entomology*. 99(3): 893-898.
- Wu, K., Feng, H., Guo, Y. 2004. Evaluation of Maize As a Refuge for Management of Resistance to Bt Cotton by *Helicoverpa armigera* (Hubner) in the Yellow River Cotton-Farming Region of Cuba. *Crop Protection*. 23: 523-530.
- Zoerb, A., Spencer, T., Hellmich, R., Wright, R., Siegfried, B. 2003. Larval Distribution and Survival of Second Generation European Corn Borer, *Ostrinia nubilalis* - Hubner - Lepidoptera - Crambidae - on Event 176 Bt Corn. *Crop Protection*. 22: 179-184.



**Viral Recombination**

Aaziz, R., Tepfer, M. 1999. Recombination in RNA Viruses and in Virus-Resistant Transgenic Plants. *Journal of General Virology*. 80: 1339-1346.

Allison, R., Schneider, W., Greene, A. 1996. Recombination in Plants Expressing Viral Transgenes. *Seminars in Virology*. 7: 417-422.

Kaniewski, W., Thomas, P. 1999. Field Testing For Virus Resistance And Agronomic Performance In Transgenic Plants. *Molecular Biotechnology*. 12: 101-115.

Lawson, E., Weiss, J., Thomas, P., Kaniewski, W., 2001. NewLeaf Plus® Russet Burbank Potatoes: Replicase-Mediated Resistance to Potato Leafroll Virus. *Molecular Breeding*. 7: 1-12.

Lawson, E., Kaniewski, W., Haley, L., Rosman, R., Newell, C., Sanders, P., Turner, N. 1990. Engineering Resistance to Mixed Virus Infection in a Commercial Potato Cultivar: Resistance to Potato Virus X and Potato Virus Y in Transgenic Russet Burbank. *Bio/Technology*. 8: 127-134.

Maiss, E., Koenig, R.; Editors: Jones, D. 1994. Heterologous Encapsidation of Viruses in Transgenic Plants and in Mixed Infections. *Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms*. Publisher: University of California, Oakland: 129-139.

Thomas, P., Lawson, E., Zalewski, J., Reed, G., Kaniewski, W. 2000. Extreme Field Resistance in Potato Leafroll Virus in Russet Burbank Mediated by the Viral Replicase Gene. *Virus Research*. 71(1-2): 49-62.

Thomas, P., Kaniewski, W. 1998. Agronomic Performance of Transgenic Plants. IN: Foster, G.D., Taylor, S.C. (Eds.), *Methods in Molecular Biology: Plant Virology Protocols from Virus Isolation to Transgenic Resistance*. Humana Press, Totowa, NJ. 81: 509-518.

Thomas, P.E., Hassan, S., Kaniewski, W.K., Lawson, E.C., and Zalewski, J.C. 1998. A Search For Evidence Of Virus/Transgene Interactions In Potatoes Transformed With The Potato Leafroll Virus Replicase And Coat Protein Genes. *Molecular Breeding*. 4: 407-417.

Tepfer, M., Martin, M., Salanki, K., Balazs, E., Carrère, I., Jacquemond, M.; Editors: Jones, D. 1994. Evaluation of the Potential for Recombination in Transgenic Plants Expressing Fragments of the Cucumber Mosaic Virus Genome. *Proceedings of the Third International Symposium on the Biosafety Results of Field Tests of Genetically Modified Plants and Microorganisms*. Publisher: University of California, Oakland: 109-115.

**Model for Environmental Risk Assessment**

Batie, S. 2003. The Environmental Impacts of Genetically Modified Plants: Challenges to Decision Making. *American Journal of Agricultural Economics*. 85(5): 1107-1111.

Bhatia, C., Mitra, R. 2003. Consequences of Gene Flow from Genetically Engineered Crops. *Current Science India*. 84(2): 138-141.

Borch, K. , Rasmussen, B. 2000. An Analytical Approach to the Implementation of Genetically Modified Crops. *Trends in Biotechnology*. 18(12): 484-486. (LCA)

Capalbo, D. , Hilbeck, A. , Andow, D. , Snow, A. , Bong, B. , Wan, F. , Fontes, E. , Osir, E. , Fitt, G. , Johnston, J. , Songa, J. , Heong, K. , Birch ANE. (2003). Brazil and the Development of International Scientific Biosafety Testing Guidelines for Transgenic Crops. *Journal of Invertebrate Pathology*. 83(2): 104-106.

Cowgill, S. , Atkinson, G. 2003. A Sequential Approach to Risk Assessment of Transgenic Plants Expressing Protease Inhibitors - Effects on Nontarget Herbivorous Insects. *Transgenic Research*. 12: 439-449.

Cranor, CF. 2003. How Should Society Approach the Real and Potential Risks Posed by New Technologies? *Plant Physiology*. 133(1): 3-9.

Dale, PJ. , Clarke, B. , Fontes, E. 2002. Potential for the Environmental Impact of Transgenic Crops. *Nature Biotechnology*. 20(6): 567-574. (Erratum in: *Nature Biotechnology*. 2002 Aug;20(8):843).

Dunfield, K., Germida, J. 2004. Impact of Genetically Modified Crops on Soil- and Plant-Associated Microbial Communities. *Journal of Environmental Quality*. 33: 806-815.

Dutton, A. , Romeis, J. , Bigler, F. 2003. Assessing the Risks of Insect Resistant Transgenic Plants on Entomophagous Arthropods: Bt-maize Expressing Cry1Ab as a Case Study. *Biocontrol*. 48(6): 611-636.

Ervin, D. , Welsh, R. , Batie, S. , et al. 2003. Towards an Ecological Systems Approach in Public Research for Environmental Regulation of Transgenic Crops. *Agriculture, Ecosystems, and Environment*. 99(1-3): 1-14.

Gaugitsch, H. 2002. Experience with Environmental Issues in GM Crop Production and the Likely Future Scenarios. *Toxicology Letters*. 127(1-3): 351-357.

Graef, F., Schmidt, G., Schroder, W., Stachow, U. 2005. Determining Ecoregions for Environmental and GMO Monitoring Networks. *Environmental Monitoring and Assessment*. 108: 189-203.

Hails, R. 2002. Assessing the Risks Associated with New Agricultural Practices. *Nature*. 418(6898): 685-688.

Hancock, J. 2003. A Framework for Assessing the Risk of Transgenic Crops. *Bioscience*. 53(5): 512-519.

- Hilder, V.A. 2003. GM Plants and Protection Against Insects - Alternative Strategies Based on Gene Technology. *Acta Scand B-S P.* 53(Supplement 1): 34-40.
- Hill, R.A. , Sendashonga, C. 2003. General Principles for Risk Assessment of Living Modified Organisms: Lessons from Chemical Risk Assessment. *Environmental Biosafety Research.* 2(2): 81.
- Jensen, K., Gamborg, C. , Madsen, K. , Jorgensen, R. , von Krauss, M. , Folker, A. , Sandoe, P. 2003. Making the EU "Risk Window" Transparent: The Normative Foundations of the Environmental Risk Assessment of GMOs. *Environmental Biosafety Research.* 2(3): 161-171
- Kowalchuk, G. , Bruinsma, M. , van Veen, J. 2003. Assessing Responses of Soil Microorganisms to GM Plants. *Trends in Ecology & Evolution.* 18(8): 403-410.
- Levidow, L. 2003. Precautionary Risk Assessment of Bt Maize: What Uncertainties? *Journal of Invertebrate Pathology.* 83(2): 113-117.
- Lu, B. , Song, Z. , Chen, JK. 2003. Can Transgenic Rice Cause Ecological Risks through Transgene Escape? *Progress in Natural Science.* 13(1): 17-24.
- Marvier, M. 2001. Ecology of Trnsgenic Crops. *American Scientist.* 89(2): 160-167.
- Moore, MN. 2002. Biocomplexity: the Post-genome Challenge in Ecotoxicology. *Aquatic Toxicology.* 59(1-2): 1-15.
- Motavilli, P., Kremer, R., Fang, M., Means, N. 2004. Impact of Genetically Modified Crops and Their Management on Soil Microbially Mediated Plant Nutrient Transformations. *Journal of Environmental Quality.* 33: 816-824.
- Myhr, AL. , Traavik, T. 2003. Genetically Modified (GM) Crops: Precautionary Science and Conflicts of Interests. *Journal Of Agricultural & Environmental Ethics.* 16(3): 227-247.
- Nickson,T.,Kim, D. 2003. Environmental Release of Living Modified Organisms: Current Approaches and Case Studies. Invited Presentation in UNEP-GEF Stakeholder Workshop: Guideline of Risk Assessment/Management, EIA for Release of LMO's Including Reviews of past Experience. Nov. 6-10, Seoul, Korea. Korean Rural Development Authority. Pages 69-81.
- Peterson, R.; Hulting, A. 2004. A Comparative Ecological Risk Assessment for Herbicides Used on Spring Wheat - The Effect of Glyphosate when Used Within a Glyphosate-tolerant Wheat System. *Weed Science.* 52: 834-844.
- Radu, C., Horak, M., Nickson, T. 2004. Ecological Risk Assessment of Genetically Modified Crops. *Genomics for Biosafety in Plant Biotechnology.* J.P. Nap, A. Atanassov, W. Stiekema (Eds). IOS Press. Pages 137-146.
- Schmitz, G. , Bartsch, D. , Pretscher, P. 2003. Selection of Relevant Non-target Herbivores for Monitoring the Environmental Effects of Bt Maize Pollen. *Environmental Biosafety Research.* 2(2): 117-132.

Stewart Jr., C. , Halfill, M. , Warwick, S. 2003. Transgene Introgression from Genetically Modified Crops to their Wild Relatives. *Nature*. 4: 806-817.

Thompson, P. 2003. Value Judgments and Risk Comparisons. The Case of Genetically Engineered Crops. *Plant Physiology*. 132(1): 10-16.

Wilkinson, M. , Sweet, J. , Poppy, G. 2003. Risk Assessment of GM plants: Avoiding Gridlock? *Trends in Plant Science*. 8(5): 208-212.

Wolt, J., Peterson, R., Bystrak, P., Meade, T. 2003. A Screening Level Approach for Nontarget Insect Risk Assessment: Transgenic Bt Corn Pollen and the Monarch Butterfly (Lepidoptera: Danaidaes). *Environmental Entomology*. 32(2): 237 - 246.

## **NATIONAL/INTERNATIONAL SCIENTIFIC ORGANIZATIONAL REPORTS**

2005. Consensus Document on Compositional Considerations for New Varieties of Alfalfa and Other Temperate Forage Legumes - Key Feed Nutrients, Anti-nutrients and Secondary Plant Metabolites. OECD. Organisation for Economic Co-operation and Development. Series on the Safety of Novel Foods and Feeds No. 13. ENV/JM/MONO(2005)13: 1-58.

2005. Modern Food Biotechnology, Human Health and Development - An Evidence-based Study. WHO World Health Org. Food Safety Department. Provisional Edition: 1-76.

2004. Agricultural Biotechnology-Meeting the Needs of the Poor - TOC. The State of Food and Agriculture, FAO(Table of Contents): I-XV.

2004. Are there Hazards for the Consumer When Eating Food from Genetically Modified Plants. Union of the German Academies of Science and Humanities. Commission Green Biotechnology. InterAcademy Panel Initiative on Genetically Modified Organisms. 1-22

2003. Considerations for the Safety Assessment of Animal Feedstuffs Derived from Genetically Modified Plants. OECD. Series on the Safety of Novel Foods and Feeds. Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology. No. 9: 1-46.

2002. Consensus Document on Compositional Considerations for New Varieties of Maize - zea mays - Key Food and Feed Nutrients, Anti-Nutrients and Secondary Plant Metabolites. No 6: 1-42.

2002. Consensus Document on Compositional Considerations for New Varieties of Potatoes - Key Food and Feed Nutrients, Anti-Nutrients and Toxicants. OECD. Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology. Series on the Safety of Novel Foods and Feeds: 4: 1-26.

2002. Consensus Document on Compositional Considerations for New Varieties of Sugar Beet - Key Food and Feed Nutrients and Anti-Nutrients. OECD. Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology. Series on the Safety of Novel Foods and Feeds. 3: 1-26.

2002. Genetically Modified Plants for Food Use and Human Health. The Royal Society. 4-02: 1-20.

2002. Report of the OECD Workshop on Nutritional Assessment of Novel Foods and Feeds. OECD. Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology Feb 2001. No. 5: 1-42.

2001. Evaluation of Allergenicity of Genetically Modified Foods. Report of a Joint FAO/WHO Expert Consultation on Allergenicity of Foods Derived from Biotechnology 22-25 January 2001: 1-29.
2001. Consensus Document on Key Nutrients and Key Toxicants in Low Erucic Acid Rapeseed -Canola. OECD. Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology. Series on the Safety of Novel Foods and Feeds. No. 1: 1-25.
2001. Consensus Document on Compositional Considerations for New Varieties of Soybean - Key Food and Feed Nutrients and Anti-Nutrients. OECD. Joint Meeting of the Chemicals Committee and the Working Party on Chemicals, Pesticides and Biotechnology. Series on the Safety of Novel Foods and Feeds. 2: 1-30.
2000. Safety Aspects of Genetically Modified Foods of Plant Origin. Report of a Joint FAO/WHO Expert Consultation on Foods Derived from Biotechnology: World Health Organization, Headquarters Geneva, Switzerland 29 May - 2 June 2000: 1-37.
2000. GM Food Safety - Facts, Uncertainties, and Assessment. OECD Edinburgh Conference on the Scientific and Health Aspects of Genetically Modified Foods. Rapporteurs' Summary: 1-11.
2000. Genetically Modified Pest-Protected Plants: Science and Regulation. National Research Council: 1-235.
2000. IFT Expert Report on Biotechnology and Foods: Human Food Safety Evaluation of rDNA Biotechnology-Derived Foods. FoodTechnology. 54(9): 53-61.
2000. OECD Report: Report of the Task Force For the Safety of Novel Foods and Feeds. Organisation for Economic Co-operation and Development: 1-72.
1999. EPA and USDA Position Paper On Insect Resistance Management in Bt Crops. Environmental Protection Agency. 7-25-2001, [http://www.epa.gov/pesticides/biopesticides/otherdocs/bt\\_position\\_paper\\_618.htm](http://www.epa.gov/pesticides/biopesticides/otherdocs/bt_position_paper_618.htm): 1-15.
1998. Guidance for Industry: Use of Antibiotic Resistance Marker Genes in Transgenic Plants. FDA/CFSAN Guidance for Industry: 1-25.
1998. Report of the OECD Workshop on the Toxicological and Nutritional Testing of Novel Foods. OECD/OCDE Report Organization for Economic Cooperation and Development: 1-48.
1998. Genetically Modified Plants for Food Use. The Royal Society: 1-29.
1997. Environmental Assessment and Finding of No Significant Impact for Monsanto/Dekalb Petition 97-099-01p for Determination of Nonregulated Status for Transgenic Glyphosate Tolerant Corn Line GA21. USDA: 1-14.
1996. Biotechnology and Food Safety. FAO Food and Nutrition Paper. (61): 1-35.

1996. Food Safety Evaluation. Organization for Economic Co-operation and Development (OECD): 1-20.
1996. Report of the FAO Technical Consultation of Food Allergies. Food and Agriculture, Rome Italy, 13-14 November 1995: 1-56.
1995. Application of the Principles of Substantial Equivalence to the Safety Evaluation of Foods or Food Components From Plants Derived by Modern Biotechnology. WHO Workshop: 1-80.
1995. Availability of Determination of Nonregulated Status for Genetically Engineered Cotton. Federal Register. 60(134): 36096-36097.
- 1994a. Calgene, Inc.; Receipt of petition for determination of nonregulated status of genetically engineered canola. [Docket No. 94-052-1] Federal Register. USDA 59(113): 30569.
1993. Safety Evaluation of Foods Derived by Modern Biotechnology: Concepts and Principles. Organization for Economic Co-operation and Development (OECD): 1-74.
1993. Health Aspects of Marker Genes in Genetically Modified Plants. Report of a WHO Workshop World Health Organization: 1-32.
1992. Department of Health and Human Services: Food and Drug Administration Statement of Policy: Foods Derived From New Plant Varieties; Notice. Federal Register. 57(104): 22984-23005.
1992. Statement of Policy: Foods Derived From New Plant Varieties. Federal Register. 57(104): 22984-23005.
1991. Strategies for Assessing the Safety of Foods Produced by Biotechnology. Report of a Joint FAO/WHO Consultation: 1-59.
- Alewynse, M. 2000. Regulation of Genetically Modified Plants in Animal Feed. FDA. Veterinarian. 15(2): 1-2.
- Chassy, B., Hlywka, J., Kleter, G., Kok, E., Kuiper, H., McGloughlin, M., Munro, I., Phipps, R., Reid, J. 2004. Nutritional and Safety Assessments of Foods and Feeds Nutritionally Improved Through Biotechnology. ILSI - Comprehensive Reviews in Food Science and Food Safety. 38-104.
- European Commission. 1996. Opinion of the Scientific Committee on Plants on the Genetically Modified Cotton Line, Insect-tolerant.  
[http://europa.eu.int/comm/dg24/health/sc/scp/out18\\_en.html](http://europa.eu.int/comm/dg24/health/sc/scp/out18_en.html)
- European Commission Scientific Committee on Animal Nutrition. 1996. Opinion on Bt corn CG176. <http://europa.eu.int/comm/dg24/health/sc/scp>
- Horton, R. 1999. Genetically Modified Foods: "Absurd" Concern Or Welcome Dialogue? Lancet. 354(9187): 1314-1315.

Ingrassia, A. 1997. Trade Regulated Environmental Measures in the Field of Safety in Biotechnology. IN: *Transboundary Movement of LMOs Resulting from Modern Biotechnology: Issues and Opportunities for Policy Makers*, edited by K.J. Mulongoy. Geneva: International Academy of the Environment.

International Life Sciences Institute. 1999. An Evaluation of Insect Resistance Management in Bt Field Corn: A Science-based Framework for Risk Assessment and Risk Management. Report of an expert panel.

International Life Sciences Institute ILSI Europe Novel Foods Task Force. 1997. The Safety Assessment of Novel Foods. *Food Chem Toxicol.* 34: 931-940.

Jonas, D., Antignac, E., Antoine, J., Classen, H., Huggett, A., Knudsen, I., Mahler, J., Ockhuizen, T., Smith, M., Teuber, M., Walker, R., De Vogel, P. 1996. The Safety Assessment of Novel Foods. Guidelines prepared by ILSI Europe Novel Food Task.. *Food and Chemical Toxicology.* 34. Issue 10: 931-940.

Nap, J. 1999. A Transgene-centered Approach to the Biosafety Assessment of Transgenic Herbicide Tolerant Crops. *Biotechnology and Development Monitor.* 38: 711.

Nordic Council of Ministers, Nordic Working Group on Food Toxicology and Risk Evaluation. 1998. Safety Assessment of Novel Food Plants. *Tema Nord.* 591

Persley, G., Siedow, J., Gasson, M., Qualset, C. 1999. Applications of Biotechnology to Crops: Benefits and Risks. *CAST Issue Paper Council for Agricultural Science and Technology* (12): 1-8.

Phipps, R., Einspanier, R., Faust, M. 2006. Safety of Meat, Milk and Eggs from Animals Fed Crops Derived from Modern Biotechnology. *CAST.* 34: 1-8.

Science Advisory Panel, Subpanel on Plant-Pesticides, March 1, 1995 (Docket Number: OPP-00401).

Scientific Advisory Panel on Bacillus thuringiensis (Bt) Plant-Pesticides, February 9-10, 1998 (Docket Number: OPPTS-00231).

Tamez-Guerra, P., Damas, G., Iracheta, M., Oppert, B., Gomez-Flores, R., Rodriguez-Padilla, C. Rodriguez-Padilla, C 2006. Differences in Susceptibility and Physiological Fitness of Mexican Field *Trichoplusia ni* Strains Exposed to *Bacillus thuringiensis*. *Journal of Economic Entomology.* 99(3): 937-945.

Traynor, P. 1999. Biosafety management: Key to the Environmentally Responsible Use of Biotechnology. IN: *Managing Agricultural Biotechnology: Addressing Research Program Needs and Policy Implications*, edited by J.I. Cohen. Wallingford: CABI Publishing.

U.S. Environmental Protection Agency. 1998. Environmental Protection Agency's White Paper on Bt Plant-Pesticide Resistance Management (EPA Publication 739-S-98-001)



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