

GianCarlo Moschini

Charles F. Curtiss Distinguished Professor
Pioneer Endowed Chair in Science and Technology Policy

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Education

1986: Ph.D. *with distinction*, Agricultural Economics, University of Guelph, Canada.
1978: Laurea *summa cum laude*, Agricultural Sciences, Catholic University of Piacenza, Italy.

Career

2020– : Charles F. Curtiss Distinguished Professor of Agriculture and Life Sciences, Department of Economics, Iowa State University.
2000– : Pioneer Endowed Chair in Science and Technology Policy, Department of Economics, Iowa State University.
2014 : Visiting Scholar, ARE Department, University of California-Berkeley.
2009– 11: Chair, Department of Economics, Iowa State University.
1995– : Professor, Department of Economics, Iowa State University.
1994– 95: Visiting Professor, Department of Economics, University of Siena, Italy.
1991– 95: Associate Professor, Department of Economics, Iowa State University.
1987– 91: Assistant Professor, Department of Economics, Iowa State University.
1986– 87: Lecturer, Department of Economics, University of Guelph, Canada.
1985– 86: Professore incaricato, Catholic University of Piacenza, Italy.

Awards

2020: Quality of research discovery award, *Agricultural & Applied Economics Association*
2020: Publication of enduring quality award, *Canadian Agricultural Economics Society*
2019: Best article in Agricultural Economics, *International Association of Agricultural Economists*
2015: Fellow, *Western Agricultural Economics Association*
2014: Outstanding *AEPP* Article Award, *Agricultural & Applied Economics Association*
2012: Quality of Communication Award, *Agricultural & Applied Economics Association*
2007: Best Paper Award, Food & Nutrition Section, *American Agricultural Economics Association*
2005: *Iowa State University Foundation* Award for Outstanding Achievement in Research
2003: FELLOW, *American Agricultural Economics Association*
2003: Who's Who in Economics
2002: Outstanding published research award, *Western Agricultural Economic Association*
1999: Quality of research discovery award, *American Agricultural Economics Association*
1998: Outstanding published research award, h. m., *Western Agricultural Economic Association*
1994: Outstanding journal article award, *American Agricultural Economic Association*

- 1993: Outstanding journal article award, *Western Agricultural Economic Association*
 1991: Quality of research discovery award, h. m., *American Agricultural Economics Association*
 1989: Best journal article award, h. m., *Canadian Agricultural Economics Farm Management Society*
 1987: Outstanding Ph.D. dissertation award, *American Agricultural Economics Association*

Service and Honors

- 2017– present: Senior Fellow, *National Center for Food and Agricultural Policy*
 2012– present: Editorial Board, *Bio-based and Applied Economics*
 2010 – 2013 : Board of directors, *Agricultural & Applied Economics Association*
 2008 : Plenary address, Congress of the *European Association of Agricultural Economics*,
 Gent, Belgium
 2007 : Sir John Crawford Fellows Address, *Australian Agricultural and Resource
 Economics Society*, annual meeting, Queenstown, NZ
 2007 : Hibbard Memorial Lecture, *University of Wisconsin-Madison*
 2004 : Joseph Havlicek, Jr. Memorial Lecture, *The Ohio State University*
 2004 : Filley-Garey Public Lecture, *University of Nebraska-Lincoln*
 2002– present: Advisory Board, *Journal of Agricultural & Food Industrial Organization*
 1998 – 2000 : Editor, *American Journal of Agricultural Economics*
 1992 – 1997 : Associate Editor, *American Journal of Agricultural Economics*
 1997 – 2020 : Advisory Board, *Agricultural and Natural Resource Economics Abstracts*

Professional Affiliations

Agricultural & Applied Economics Association (formerly, American Agricultural Economics Association)
 American Economic Association
 European Association of Agricultural Economists
 International Association of Agricultural Economists

Teaching

Courses currently or recently taught at *Iowa State University*:

- Econ 416 – Industrial Organization (undergraduate)
- Econ 418x – Introduction to Game Theory (undergraduate)
- Econ 601 – Microeconomic Analysis I (graduate)
- Econ 615 – Industrial Organization I (graduate)
- Econ 642 – Agricultural Economics II (graduate)

Courses previously taught:

- Strategic Decisions: Game Theory with Applications to Economics and Business
 (graduate, *Catholic University, Italy*)
- Consumption and Demand Analysis (graduate, *Iowa State University*)
- Agricultural Price Analysis (graduate, *Iowa State University*)
- Agricultural Marketing (undergraduate, *Iowa State University*)

Topics in Microeconomics (undergraduate, *Iowa State University*)
International Economics (undergraduate, *University of Guelph, Canada*)
Agricultural Price Analysis (undergraduate, *University of Guelph, Canada*)
Introduction to Game Theory (graduate, *Catholic University, Italy*)
International Agricultural Trade (graduate, *Catholic University, Italy*)
Demand Analysis: Theory and Practice (graduate, *Catholic University, Italy*)

Journal Articles

Lee, S., and G. Moschini, “On the value of innovation and extension information: SCN-resistant soybean varieties,” *American Journal of Agricultural Economics*, 2022, accepted, forthcoming.

Perry, E.D., D. Hennessy, and G. Moschini. “Uncertainty and learning in a technologically dynamic industry: Seed density in US maize,” *American Journal of Agricultural Economics*, 2022, accepted, forthcoming.

Perry, E.D., and G. Moschini. “Neonicotinoids in U.S. maize: Insecticide substitution effects and environmental risk,” *Journal of Environmental Economics and Management*, 102(2020), 102320.

Cui, J., and G. Moschini. “Firm internal network, environmental regulation, and plant death,” *Journal of Environmental Economics and Management*, 101(2020), 102319.

Ciliberto, F., G. Moschini, and E.D. Perry, “Valuing Product Innovation: Genetically Engineered Varieties in U.S. Corn and Soybeans.” *RAND Journal of Economics*, 50(3)(Fall 2019):615-644.

Luo, J., and G. Moschini, “Pass-through of the policy-induced E85 subsidy: Insights from Hotelling’s model,” *Energy Economics*, Volume 84, October 2019, 104478.

Perry, E.D., D. Hennessy, and G. Moschini. “Product Concentration and Usage: Behavioral Effects in the Glyphosate Market,” *Journal of Economic Behavior & Organization*, 158, February 2019, 543-559.

Kim, H., and G. Moschini, “The Dynamics of Supply: U.S. Corn and Soybeans in the Biofuel Era,” *Land Economics*, 94(4)(November 2018): 593-613.

Clancy, M.S. and G. Moschini, “Mandates and the Incentive for Environmental Innovation,” *American Journal of Agricultural Economics*, 100(1)(2018): 198–219.

Lence, S., G. Moschini and F. Santeramo, “Threshold Cointegration and Spatial Price Transmission when Expectations Matter,” *Agricultural Economics*, 49(2018):25-39.

Moschini, G., H. Lapan and H. Kim, “The Renewable Fuel Standard in Competitive Equilibrium: Market and Welfare Effects,” *American Journal of Agricultural Economics*, 99(5)(2017):1117-1142 and 1146-1147. [Lead article, with Discussion and Response]

Clancy, M.S. and G. Moschini, “Intellectual Property Rights and the Ascent of Proprietary Innovation in Agriculture,” *Annual Review of Resource Economics*, vol. 9, 2017, 53-74.

Perry, E.D., F. Ciliberto, D. A. Hennessy, and G. Moschini, “Genetically engineered crops and pesticide use in U.S. maize and soybeans.” *Science Advances* 2, e1600850 (August 31, 2016).

Perry, E., Moschini, G., and Hennessy, D., “Testing for Complementarity: Glyphosate Tolerant Soybeans and Conservation Tillage,” *American Journal of Agricultural Economics*, 98(3)(April 2016):765-784.

Cui, J., Lapan, H., and Moschini, G., “Productivity, Export and Environmental Performance: Air Pollutants in the United States,” *American Journal of Agricultural Economics*, 98(2)(March 2016):447-467.

Moschini, G., “*In Medio Stat Virtus*: Coexistence Policies for GM and non-GM Production in Spatial Equilibrium,” *European Review of Agricultural Economics*, 42 (5), December 2015, 851-874.

Hueth, B. and G. Moschini, “Endogenous market structure and the cooperative firm,” *Economics Letters* 124 (2014) 283–285.

Menapace, L. and G. Moschini, “Strength of Protection for Geographical Indications: Promotion Incentives and Welfare Effects,” *American Journal of Agricultural Economics*, 96(4)(2014): 1030-1048.

Clancy, M.S. and G. Moschini, “Incentives for Innovation: Patents, Prizes, and Research Contracts,” *Applied Economics Perspective and Policy*, 35(2)(2013): 206-241.

Xu, Z., D.A. Hennessy, K. Sardana and G. Moschini, “The Realized Yield Effect of Genetically Engineered Crops: U.S. Maize and Soybean,” *Crop Science*, 53(2013):735–745.

Lapan, H. and G. Moschini, “Second-best biofuel policies and the welfare effects of quantity mandates and subsidies,” *Journal of Environmental Economics and Management*, 63(2012): 224-241.

Menapace, L. and Moschini, G., “Quality Certification by Geographical Indications, Trademarks and Firm Reputation,” *European Review of Agricultural Economics*, 39(4)(2012):539-566.

Moschini, G., Cui, J., and Lapan, H. “Economics of Biofuels: An Overview of Policies, Impacts and Prospects,” *Bio-based and Applied Economics*, 1(3)(2012): 269-296.

Cui, J., Lapan, H., Moschini, G., and Cooper, J., "Welfare Impacts of Alternative Biofuel and Energy Policies," *American Journal of Agricultural Economics*, 93(5)(2011):1235-1256.

Moschini, G., "Competition Issues in the Seed Industry and the Role of Intellectual Property," *Choices*, 25(2), 2nd Quarter 2010.

Moschini, G., Lapan, H., Cui, J., & Cooper, J. (2010). Assessing the welfare effects of US biofuel policies. *AgBioForum*, 13(4)(2010): 370-374.

Jayasinghe, S., Beghin, J. and Moschini, G., "Determinants of World Demand for U.S. Corn Seeds: The Role of Trade Costs," *American Journal of Agricultural Economics*, 92(4)(2010): 999-1010.

Moschini, G., "Incentives and Outcomes in a Strategic Setting: The 3-Points-for-a-Win System in Soccer," *Economic Inquiry*, 48(1)(January 2010):65-79.

Lapan, H., and Moschini, G., "Quality certification standards in competitive markets: When consumers and producers (dis)agree," *Economics Letters*, 104(3)(September 2009):144-147.

Bulut, H., and G. Moschini, "U.S. Universities' Net Returns from Patenting and Licensing: A Quantile Regression Analysis," *Economics of Innovation and New Technology* 18(2)(2009):123-137.

Moschini, G., "Biotechnology and the Development of Food Markets: Retrospect and Prospects," *European Review of Agricultural Economics* 35(2008):331-355.

Moschini, G., Menapace, L., and Pick, D., "Geographical Indications and the Competitive Provision of Quality in Agricultural Markets," *American Journal of Agricultural Economics* 90(2008):794-812.

Moschini, G., and Yerokhin, O., "Patents, Research Exemption, and the Incentive for Sequential Innovation," *Journal of Economics & Management Strategy* 17(2008):379-412.

Yerokhin, O. and G. Moschini, "Intellectual Property Rights and Crop-Improving R&D Under Adaptive Destruction," *Environmental and Resource Economics* 40(2008):53-72.

Moschini, G. and P.L. Rizzi, "Deriving a Flexible Mixed Demand System: The Normalized Quadratic Model," *American Journal of Agricultural Economics* 89(2007):1034-1045.

Lapan, H., and G. Moschini, "Grading, Minimum Quality Standards, and the Labeling of Genetically Modified Products," *American Journal of Agricultural Economics* 89(2007):769-783.

Noh, Y-H., and Moschini, G., "Vertical Product Differentiation, Entry-Deterrence Strategies, and Entry Qualities," *Review of Industrial Organization* 29(2006):227-252.

Moschini, G., "Pharmaceuticals and Industrial Traits in Genetically Modified Crops: Coexistence with Conventional Agriculture," *American Journal of Agricultural Economics* 88(5)(2006):1184-1192.

Hennessy, D., and Moschini, G., "Regulatory Actions under Adjustment Costs and the Resolution of Scientific Uncertainty," *American Journal of Agricultural Economics* 88(2)(May 2006):308-323.

Gohin, A., and Moschini, G., "Evaluating the Market and Welfare Impacts of Agricultural Policies in Developed Countries: Comparison of Partial and General Equilibrium Measures," *Review of Agricultural Economics* 28(2)(2006):195-211.

Bulut, H. and Moschini, G., "Patents, Trade Secrets and the Correlation Among R&D Projects," *Economics Letters*, 91(2006):131-137.

Moschini, G., Bulut, H., and Cembalo, L., "On the Segregation of Genetically Modified, Conventional and Organic Products in European Agriculture: A Multi-market Equilibrium Analysis," *Journal of Agricultural Economics*, 56(3)(2005):347-372.

Sobolevsky, A., Moschini, G., and Lapan, H., "Genetically Modified Crops and Product Differentiation: Trade and Welfare Effects in the Soybean Complex," *American Journal of Agricultural Economics* 87(3)(August 2005):621-644.

Moschini, G., "Nash Equilibrium in Strictly Competitive Games: Live Play in Soccer," *Economics Letters*, 85(3)(December 2004), 365-371.

Lapan, H.E., and G. Moschini, "Innovation and Trade with Endogenous Market Failure: The Case of Genetically Modified Products," *American Journal of Agricultural Economics*, 86(2004):634-648.

Moschini, G. and Myers, R.J. "Testing for Constant Hedge Ratios in Commodity Markets: A Multivariate GARCH Approach," *Journal of Empirical Finance*, 9(2002):589-603.

Moschini, G. "Production Risk and the Estimation of Ex-ante Cost Functions," *Journal of Econometrics*, 100(2001):357-380.

Moschini, G. "A Flexible Multistage Demand System Based on Indirect Separability," *Southern Economic Journal*, 68(2001):22-41.

Moschini, G. "Biotech—Who Wins? Economic Benefits and Costs of Biotechnology Innovations in Agriculture," *Estey Centre Journal of International Law and Trade Policy*, 2(2001):93-117.

Moschini, G., Lapan, H. and Sobolevsky, A. "Roundup Ready® Soybeans and Welfare Effects in the Soybean Complex," *Agribusiness - An International Journal*, 16(2000):33-55.

Lapan, H. and Moschini, G. "Incomplete Adoption of a Superior Innovation," *Economica*, 67(2000):525-542.

Moschini, G. "Policy Reform in the European Union Dairy Sector -- Effects on Markets and Welfare: Discussion," *Canadian Journal of Agricultural Economics*, 47(December 1999), 115-16.

Moschini, G. "Imposing Local Curvature Conditions in Flexible Demand Systems," *Journal of Business & Economic Statistics*, 17 (October 1999):487-490.

Gervais, J-P. and Moschini, G., "Estimating Disequilibrium Cost Elasticities in Agricultural Production: Comment," *Canadian Journal of Agricultural Economics*, 46(1998):347-349.

Moschini, G. "The Semiflexible Almost Ideal Demand System," *European Economic Review*, 42(1998):349-364.

Moschini, G. and H. Lapan, "Intellectual Property Rights and the Welfare Effects of Agricultural R&D," *American Journal of Agricultural Economics*, 79(November 1997):1229-1242.

Moschini, G.C. and P.L. Rizzi, "La Struttura dei Consumi delle Famiglie in Italia," *Rivista Internazionale di Scienze Sociali*, 105(1997):449-471.

Lapan, H. and Moschini, G. "Stabilizing Price Policies and the Futures Market," *Economics Letters*, 53(1996):175-182.

Moschini, G. and D. Moro, "Structural Change and Demand Analysis: A cursory Review," *European Review of Agricultural Economics*, 23(1996):239-261.

Moro, D. and Moschini, G. "A Separable Almost Ideal Demand System," *Rivista Internazionale di Scienze Economiche e Commerciali*, 43(1996):537-562.

Moschini, G. and H. Lapan. "The Hedging Role of Options and Futures under Joint Price, Basis, and Production Risk," *International Economic Review*, 36(November 1995):1025-1049.

Moschini, G. "Units of Measurement and the 'Stone Index' in Demand System Estimation," *American Journal of Agricultural Economics*, 77(February 1995):63-68.

Moschini, G. and D. Moro, "Autocorrelation Specification in Singular Equation Systems," *Economics Letters*, 46(1994):303-309.

Moschini, G. and P. Sckokai, "Efficiency of Decoupled Farm Programs Under Distortionary Taxation," *American Journal of Agricultural Economics*, 76(August 1994):362-370.

Lapan, H., and G. Moschini, "Futures Hedging Under Price, Basis, and Production Risk," *American Journal of Agricultural Economics*, 76(August 1994):465-477.

Moschini, G., Moro, D. and Green, R. "Maintaining and Testing Separability in Demand Systems." *American Journal of Agricultural Economics*, 76(February 1994):61-73.

Sckokai, P. and G. Moschini, "Interventi Disaccoppiati, Riforma della PAC e Redditi Agricoli: Una Analisi Qualitativa," *Rivista di Economia Agraria*, 48(September 1993):391-412.

Lapan, H., Moschini, G. and Hanson, S. "Production, Hedging, and Speculative Decision with Options and Futures Markets: Reply" *American Journal of Agricultural Economics*, 75(August 1993):748-750.

Moschini, G. and Vissa, A. "Flexible Specification of Mixed Demand Systems." *American Journal of Agricultural Economics*, 75(1993):1-9.

Moschini, G. and H. Lapan. "Hedging Price Risk with Futures and Options for the Competitive Firm with Production Flexibility." *International Economic Review*, 33(1992):607-618.

Moschini, G. and Meilke, K.D. "Production Subsidy and Countervailing Duties in Vertically Related Markets: The Hog-Pork Case between Canada and the United States." *American Journal of Agricultural Economics*, 74(1992):951-961.

Moschini, G. and Vissa, A. "A Linear Inverse Demand System." *Journal of Agricultural and Resource Economics*, 17(1992):294-302.

Holt, M. and G. Moschini. "Alternative Measures of Risk in Commodity Supply Models: An Analysis of Sow Farrowing Decisions in the United States." *Journal of Agricultural and Resource Economics*, 17(1992):1-12.

Moschini, G. "A Non-nested Test of Separability for Flexible Functional Forms." *Review of Economics and Statistics*, LXXIV(1992):365-369.

Moschini, G. and Meilke, K.D. "Tariffication with Supply Management: The Case of the U.S.-Canada Chicken Trade." *Canadian Journal of Agricultural Economics*, 39(1991):55-68.

Moschini, G. "Economic Issues in Tariffication: An Overview." *Agricultural Economics*, 5(1991):101-120.

Moschini, G. "A Model of Production with Supply Management for the Canadian Agricultural Sector: Reply." *American Journal of Agricultural Economics*, 70(1991):871-873.

Lapan, H., Moschini, G. and Hanson, S. "Production, Hedging, and Speculative Decision with Options and Futures Markets." *American Journal of Agricultural Economics*, 73(1991):66-74.

Moschini, G. "Testing for Preference Change in Consumer Demand: An Indirectly Separable, Semiparametric Model." *Journal of Business and Economic Statistics*, 9(1991):111-117.

Moschini, G. "Nonparametric and Semiparametric Estimation: An Analysis of Multiproduct Returns to Scale." *American Journal of Agricultural Economics*, 72(1990):589-596.

- Moschini, G. "Modeling the Supply Response of Supply Managed Industries: A Review of Issues." *Canadian Journal of Agricultural Economics*, 37(1989):379-392.
- Moschini, G. "Normal Inputs and Joint Production with Allocatable Fixed Factors." *American Journal of Agricultural Economics*, 71(1989):1021-1024.
- Oxley, J., Fox, G. and Moschini, G. "An Analysis of the Structural and Welfare Effects of Bovine Somatotropin on the Ontario Dairy Industry." *Canadian Journal of Agricultural Economics*, 37(1989):393-406.
- Moschini, G. and Meilke, K.D. "Modeling the Pattern of Structural Change in U.S. Meat Demand." *American Journal of Agricultural Economics*, 71(1989):253-261.
- Moschini, G., Prescott, D. and Stengos, T. "Nonparametric Kernel Estimation Applied to Forecasting: An Evaluation Based on the Bootstrap." *Empirical Economics*, 13(1988):141-154.
- Moschini, G. "The Cost Structure of Ontario Dairy Farms: A Micro-econometric Analysis." *Canadian Journal of Agricultural Economics*, 36(1988):187-206.
- Moschini, G. "A Model of Production with Supply Management for the Canadian Agricultural Sector." *American Journal of Agricultural Economics*, 70(1988):318-329.
- Moschini, G. and Meilke, K.D. "Sustainable Rates of Return for Milk Quotas in Ontario." *Canadian Journal of Agricultural Economics*, 36(1988):119-126.
- Moschini, G. "Least-Cost Subsidization Alternatives: Comment." *American Journal of Agricultural Economics*, 69(1987):187.
- Moschini, G. and Meilke, K.D. "Parameter Stability and the U.S Demand for Beef." *Western Journal of Agricultural Economics*, 9(1984):271-282.
- Surry, Y. and Moschini, G. "Input Substitutability in the EC Compound Feed Industry." *European Review of Agricultural Economics*, 11(1984): 455-464.
- Moschini, G. "Quota Values and Price Uncertainty." *Canadian Journal of Agricultural Economics*, 32(1984):231-234.
- Moschini, G. "Funzione di profitto e analisi dell'offerta." *Rivista Internazionale di Scienze Sociali*, 91(1983):469-486.
- Moschini, G. "La teoria della stabilizzazione dei prezzi: una rassegna critica." *Rivista di Economia Agraria*, 38(1983):533-555.
- Moschini, G. "Testing for Parameter Instability in Linear Econometric Models: A Survey," *Annali della Facolta' di Agraria U.C.S.C.*, 22(1982):163-174.

Pieri, R. and Moschini, G., “The Italian Tomato Industry: An Econometric Analysis for the Period 1955to 1976,” *European Review of Agricultural Economics* 6(1979):365-384.

Moschini, G. and R. Pieri, “Analisi dell’offerta e della domanda di pomodoro in Italia,” *Rivista di Economia Agraria*, XXXIII(1978):755-780.

Books

Carter, C., Moschini, G., and Sheldon, I., eds., *Genetically Modified Food and Global Welfare*, Emerald Group Publishing, 2011.

Chapters in Books

Clancy, M., Heisey, P., Ji, Y., & Moschini, G. (2021). “The Roots of Agricultural Innovation: Patent Evidence of Knowledge Spillovers.” In P. Moser, ed., *Economics of Research and Innovation in Agriculture*. University of Chicago Press, September 2021. [Also: NBER Working Paper No. 27011, April 2020].

Moschini, G., and Yerokhin, O., “The Economic Incentive to Innovate in Plants: Patents and Plant Breeders’ Rights,” in J.P. Kesan, ed., *Agricultural Biotechnology and Intellectual Property: Seeds of Change*, CAB International, 2007 (pp.190-203).

Moschini, G., and Lapan, H., “Labeling Regulations and Segregation of First- and Second-Generation GM Products: Innovation Incentives and Welfare Effects,” book chapter in R.E. Just, J. Alston, and D. Zilberman, eds., *Regulating Agricultural Biotechnology: Economics and Policy*, New York, Springer Publishers, 2006 (pp. 263-282).

Moschini, G., and Rizzi, P.L., “Coherent Specification of a Mixed Demand System: The Stone-Geary Model,” in M. T. Holt and J.–P. Chavas, ed., *Exploring Frontiers in Applied Economics: Essays in Honor of Stanley R. Johnson*, Berkeley Electronic Press, September 2006.

Moschini, G., “Intellectual property rights and the World Trade Organization: Retrospect and prospects,” in Anania, G., Bohman, M., Carter, C., and McCalla, A., eds., *Agricultural policy reform and the WTO: where are we heading?*, Edward Elgar Publishing, 2004 (pp. 474-511).

Moschini, G., “Patents and Other Intellectual Property Rights,” in: Public Policy in Food and Agriculture, edited by A. Azzam, in *Encyclopedia of Life Support Systems (EOLSS)*, Eolss Publishers, Oxford, UK, 2003.

Langinier, C. and G, Moschini, “The Economics of Patents,” in *Intellectual Property Rights and Patenting in Animal Breeding and Genetics*, edited by S. Newman and M. Rothschild, CAB International, 2002 (pp. 31-50).

Moschini, G. and D. Hennessy, “Uncertainty, Risk Aversion, and Risk Management for Agricultural Producers,” in *Handbook of Agricultural Economics*, volume 1A, B. Gardner and G. Rausser editors, Elsevier Science Publishing, 2001.

Moschini, G., H.E. Lapan, and A. Sobolevsky, “Trading Technology as well as Final Products: Roundup Ready Soybean and Welfare Effects in the Soybean Complex,” Chapter 14 of *Transitions in Agbiotech: Economics of Strategy and Policy*, edited by W.H. Lesser. Storrs, CT: Food Marketing Policy Center, 2000.

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Moschini, G. “U.S. Domestic Policy and U.S./E.C. Trade: Discussion,” in Anania, G., Carter, C., and MacCalla, A. *Agricultural Trade Conflicts and GATT - New Dimensions in North American-European Agricultural Trade Relations*, Westview Press, 1994.

Moschini, G., and R. Green, “Separability in Demand Analysis: Untested Assumption of Tested Hypothesis?” in H.H. Jensen and J.A. Chalfant, *Policy Implications for U.S. Agriculture of Changes in Demand for Food*. Ames, IA: Center for Agriculture and Rural Development, 1994.

Moschini, G., Prescott, D., and Stengos, T. “Nonparametric Kernel Estimation Applied to Forecasting: An Evaluation Based on the Bootstrap.” In Aman Ullah, ed., *Semiparametric and Nonparametric Econometrics*, Physica-Verlag Heidelberg, 1989.

Other Publications

Moschini, G., Y. Ji, and S. Lee, “Corn Yields and Climate Change: The Innovation Challenge,” *CARD Agricultural Policy Review*, Winter 2021.

Moschini, G., E. Perry, and D. Hennessy, “Patent Expiration, Product Concentration, and Glyphosate Use: A Tale of Unexpected Consequences,” *CARD Agricultural Policy Review*, Spring 2019.

Moschini, G., Mandatory GMO Labeling?, *CARD Agricultural Policy Review*, Spring 2015.

Moschini, G., Technology and Productivity in US Corn and Soybean, *CARD Agricultural Policy Review*, Spring 2014.

Moschini, G., Book review of “Patent Failure: How Judges, Bureaucrats, and Lawyers Put Innovators at Risk,” by James Bessen and Michael J. Meurer, *Review of Policy Research*, 27(2)(2010):200-202.

Moschini, G., Book review of “Innovation and Its Discontents: How our Broken Patent System Is Endangering Innovation and Progress, and What to Do About It. Princeton,” by Jaffe, Adam B. and Josh Lerner. *American Journal of Agricultural Economics*,

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Moschini, G., Book review of "What's Economics Worth? Valuing Policy Research," by Pardey, P.G., Smith, V.H., eds., *Economic Development and Cultural Change*, 55(2)(2007):425-428.

Graff, G. and Moschini, G., "Pharmaceuticals and Industrial Products in Crops: Economic Prospects and Impacts on Agriculture," *Iowa Ag Review*, CARD, Vol. 19, No. 4, Fall 2004.

Moschini, G., "Agricultural Biotechnology and Trade: The Unresolved Issues," *Iowa Ag Review*, CARD, Vol. 9, No. 4, Fall 2003.

Harvey E. Lapan, GianCarlo Moschini, Brad Caruth, "Are All Taxes Equally Bad? How Replacing Iowa's Sales Tax Could Save Iowans More Than \$100 Million per Year," *Working Paper* 02-WP 312, CARD, Department of Economics, Iowa State University, September 2002.

Moschini, G., "Patented Agriculture" *Iowa Ag Review*, CARD, Vol. 8, No. 2, Spring 2002.

Moschini, G., "Who is Afraid of the Precautionary Principle?" *Iowa Ag Review*, CARD, Vol. 7, No. 4, Fall 2001.

Moschini, G., "Much Ado About GMOs," *Soybean Update*, SD Soybean Research & Promotion Council, Supplement to *Dakota Farmer* magazine, December 1999.

Moschini, G., "To Label or Not to Label, That is the Question," *Iowa Soybean Review*, Volume 11, No. 1, October 1999.

Moschini, G., "GMOs and Identity Preservation: The Roots of the Problem." Contributed section in *Economic Perspectives on the GMO Market Segregation*, by Miranowski et al., Department of Economics, Iowa State University, September 1999.

Moschini, G., and Corrigan, J., "GMOs in Europe: A Genetically Modified Ordeal?," *Iowa Ag Review*, CARD, Vol. 5, No. 3, Summer 1999.

Huffman, W., and Moschini, G., "The Role of Research & Development and of New Technologies," chapter in *Agriculture in the 21st Century -- Surviving and Thriving*, Department of Economics, Iowa State University, March 1999.

Moschini, G., "Research Update," *Economics Newsletter*, Iowa State University, Spring 1998.

Moschini, G. Book review of "Agricultural Trade Conflicts and GATT - New Dimensions in North American-European Agricultural Trade Relations," by Anania, G., C. Carter and A. MacCalla. *La Questione Agraria* 57(1995):191-193.

Moschini, G., and Moro, D. A Food Demand System for Canada. *Agriculture Canada Technical Report* 1/93, Ottawa, March 1993.

Meilke, K.D., and G. Moschini. 1992. "A Chronicle of Canadian Hog Stabilization Programs and U.S. Countervailing Duties on Hogs and Pork". *GATT Research Paper* 91-GATT 5, Center for Agricultural and Rural Development, Iowa State University, April 1992.

Graham, J.D., Stennes, B., MacGregor, R.J., Meilke, K., and Moschini, G. The Effects of Trade Liberalization on the Canadian Dairy and Poultry Sectors. *Agriculture Canada Working Paper* No. 3/90, Ottawa, June 1990.

Moschini, G., and Meilke, K.D. An Analysis of Spatial Price Differences in the North-American Livestock Sector. *Agriculture Canada Working Paper* No. 7/87, Ottawa, May 1987.

Presentations (last five years only)

"*Uncertainty and learning in a technologically dynamic industry: Seed density in US maize*," NC-1034 annual meeting, remote/virtual, December 2021.

"*Emission Control by Voluntary Agreements: Oligopoly Markets with Green Consumers*," (with H. Kim), Selected Paper, AAEA annual meeting, remote/virtual, August 2021.

"*Estimating the Value of Innovation and Extension Information: SCN-resistant soybean varieties*," (with S. Lee), Selected Paper, AAEA annual meeting, remote/virtual, July 2020.

"*The Value of Product Innovations: Genetically Engineered Seeds*," Wageningen University & Research, The Netherlands, October 2019.

"*Estimating the Value of Innovation and Extension Information: The Case of SCN-Resistant Soybean Varieties*," (with S. Lee), NC-1034 annual meeting, Atlanta, GA, July 2019.

"*Pass-through of the policy-induced E85 subsidy: Insights from Hotelling's model*," (with J. Luo), poster presentation, AAEA annual meeting, Atlanta, GA, 2019.

"*The Value of Product Innovations: Genetically Engineered Seeds*," Keynote presentation, 8th PhD Workshop of the EAAE, Uppsala, Sweden, June 2019.

"*The roots of agricultural innovation: Evidence from patents*," (with Clancy, Heisey, and Ji) NBER conference on "Economics of Research and Innovation in Agriculture, Washington, D.C., May 2019.

"*The roots of agricultural innovation: Evidence from patents*," (with Clancy, Heisey, and Ji) NBER workshop, Cambridge, MA, November 2018.

"*Valuing product innovation: genetically engineered varieties in U.S. corn and soybeans*," 30th International Conference of Agricultural Economists, Vancouver, B.C., Canada, July 2018.

“The Dynamics of Supply: U.S. Corn and Soybeans in the Biofuel Era,” 7th AIEAA Conference, Conegliano, Italy, June 2018.

“Terms-of-Trade Effects and the Market and Welfare Impacts of U.S. Biofuel Policies,” contributed paper, XV Congress of the European Association of Agricultural Economists, Parma, Italy, August-September 2017.

“Unintended Consequences? Neonicotinoid Restrictions and Insecticide Use In U.S. Maize,” contributed paper, XV Congress of the European Association of Agricultural Economists, Parma, Italy, August-September 2017.

“The Renewable Fuel Standard in Competitive Equilibrium: Market and Welfare Effects,” invited seminar, Department of Agricultural, Food, and Resource Economics, Michigan State University, September 2017.

“Biofuel Mandates and the Blend Wall: Some Welfare Impacts of the RFS2,” principal paper, AAEA Annual Meeting, Chicago, IL, August 2017.

“Valuing Product Innovation: Genetically Engineered Crop Varieties in US Corn and Soybeans,” NIFA Agricultural Economics and Rural Communities Project Directors Workshop, Chicago, IL, August 2017.

“Intellectual Property Rights and the Ascent of Proprietary Innovation in Agriculture,” 6th AIEAA conference, Piacenza, Italy, June 2017.

Grants (career total \$4,151,285)

Active grants

2019-22: USDA NIFA Foundational Program (PI, with E. Perry)	\$236,929
2018-22: USDA NIFA Foundational Program (PI, with F. Ciliberto and E. Perry)	\$424,642
2021-25: USDA Cooperative Research Agreement (PI)	\$299,483

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