

Presentation References:

1. 2009 U.S. Families/ Organic Attitudes and Beliefs Study. A Joint Project of the Organic Trade Association and KIWI Magazine. Conducted by RMI Research and Consulting, LLC. Greenfield, MA: Organic Trade Association. June 2009.
2. Greene C, Dimitri C, Lin B-H, et al. *Emerging Issues in the U.S. Organic Industry. Economic Information Bulletin Number 55*. Washington DC: United States Department of Agriculture, Economic Research Service; June 2009.
3. Smith TA, Lin B-H. Consumers willing to pay a price premium for organic produce. *Amber Waves*. Washington DC: USDA, Economic Research Service. March 2009.
4. Tegtmeyer EM, Duffy MD. External costs of agricultural production in the United States. *International Journal of Agricultural Sustainability*. 2004;2:1-20.
5. Pimentel D, Hepperly P, Hanson J, et al. Environmental, energetic, and economic comparisons of organic and conventional farming systems. *BioScience*. 2005;55:573-582.
6. U.S. Environmental Protection Agency (EPA), Office of Inspector General (OIG). *Evaluation Report. EPA Needs to Accelerate Adoption of Numeric Nutrient Water Quality Standards. Report No. 09-P-02223*. Washington DC: EPA, OIG. August 26<sup>th</sup> 2009.
7. Food and Agriculture Organization of the United Nations (FAO). *Agricultural Biodiversity in FAO*. Rome, Italy: FAO, 2008.
8. Bernstein AS, Ludwig DS. The importance of biodiversity to medicine. *JAMA*. 2008;300:2297-2299.
9. Climate Change Science Program (CCSP). *Analyses of the Effects of Global Change on Human Health and Welfare and Human Systems. A Report by the U.S. Climate Change Science Program and Subcommittee on Global Change Research*. Gamble JL (ed.), K.L. Ebi, F.G. Sussman, TJ Wilbanks. Washington DC: U.S. EPA. July 2008.
10. Frison EA, Smith IF, Johns T, et al. Agricultural biodiversity, nutrition and health: making a difference in the developing world. *Food Nutr Bull*. 2006;27:167-179.
11. Bengtsson J, Ahnstrom J, Weibull A. The effects of organic agriculture on biodiversity and abundance: a meta-analysis. *J. Appl Ecol*. 2005;42:261-269.
12. Hole DG, Perkins AJ, Wilson JD, et al. Does organic farming benefit biodiversity? *Biol Conserv*. 2005;122:113-130.
13. Garcia MA, Altieri MA. Transgenic crops: implications for biodiversity and sustainable agriculture. *Bull Sci Tech Soc*. 2005;25:335-353.
14. Oehl F, Sieverding E, Mader P, et al. Impact of long-term conventional and organic farming on the diversity of arbuscular mycorrhizal fungi. *Oecologia*. 2004;138:574-583
15. Mader P, FlieBbach A, Dubois D, et al. Soil fertility and biodiversity in organic farming. *Science*. 2002;296:1694-1697.
16. Niggli U, FlieBbach A, Hepperly P, Scialabba N. *Low Greenhouse Gas Agriculture: Mitigation and Adaptation Potential of Sustainable Farming Systems*. Rome, Italy: FAO; April 2009. Available at: <ftp://ftp.fao.org/docrep/fao/010/ai781e/ai781e00.pdf>. Accessed June 29<sup>th</sup> 2009.

Christine McCullum-Gomez, PhD, RD

2009 ADA FNCE, Sunday, October 18<sup>th</sup> 2009; 8:00-9:30 AM

Organic versus Conventional Food Production: Sowing the Seeds of Thought

17. Sandu HS, Wratten, SD, Cullen R, Case B. The future of farming: the value of ecosystem services in conventional and organic arable land: an experimental approach. *Ecological Economics*. 2008;64:835-848.
18. Ziesemer J. *Energy Use in Organic Food Systems*. Natural Resources Management and Environment Department, Food and Agriculture Organization of the United Nations. Rome, Italy: FAO, August 2007. Available at: <http://www.fao.org/docs/eims/upload/233069/energy-use-0a.pdf> Accessed July 3rd, 2009.
19. Marriott EE, Wander MM. Total and liable soil organic matter in organic and conventional farming systems. *Soil Science Society of America Journal*. 2006;70:950-959.
20. U.S. Environmental Protection Agency (EPA). *U.S. Greenhouse Gas Inventory Report: Inventory of U.S. Greenhouse Gas Emissions and Sinks. 1990-2007*. Washington DC: EPA. April 2009.
21. Energy Information Administration, U.S. Department of Energy (DOE). *Emissions of Greenhouse Gases in the United States 2007. Report No. DOE/EIA-0573*. Washington DC: DOE/EIA. December 2008.
22. Pelletier N, Arsenault N, Tyedmers P. Scenario modeling potential eco-efficiency gains from a transition to organic agriculture: life cycle perspectives on Canadian canola, corn, soy and wheat production. *Environmental Management*. 2008;42:989-1001.
23. Blake L. Organic farmers seek healthier future. *The Wall Street Journal*. August 25<sup>th</sup> 2009.
24. United Nations Conference on Trade and Development and United Nations Environment Programme (UNCTAD-UNEP). *Organic Agriculture and Food Security in Africa*. New York and Geneva:United Nations; 2008.
25. Lu C, Barr DB, MA, et al. Dietary intake and its contribution to longitudinal organophosphorus exposure in urban/suburban children. *Environ Health Perspect*. 2008;116:537-542.
26. Lu C, Toepel K, Irish R et al. Organic diets significantly lower children's dietary exposure to organophosphorus pesticides. *Environ Health Perspect*. 2006;114:260-263.
27. *Principles for Evaluating Health Risks in Children Associated with Exposure to Chemicals (Environmental Health Criteria Series, No. 237)*. Geneva, Switzerland: World Health Organization (WHO). 2007.
28. Jia Z, Misra HP. Developmental exposure to pesticides zineb and/or endosulfan renders the nigrostriatal dopamine system more susceptible to these environmental chemicals later in life. *Neurotoxicology*. 2007;28:727-735.
29. Richardson JR, Caudle WM, Wang M, et al. Developmental exposure to the pesticide dieldrin alters the dopamine system and increases neurotoxicity in an animal model of Parkinson's disease. *FASEB J*. 2006;20:1695-1697.
30. Cory-Slechta DA, Thiruchelvam M, Richfield EK, et al. Developmental pesticide exposures and the Parkinson's disease phenotype. *Birth Defects Res A Clin Mol Teratol*. 2005;73:136-139.

31. Thiruchelvam M, Richfield EK, Goodman BM, et al. Developmental exposure to the pesticides paraquat and maneb and the Parkinson's disease phenotype. *Neurotoxicology*. 2002;23:621-633.
32. Owens K. Pesticides trigger Parkinson's disease. *Pesticides and You*. 2008;28:14-20.
33. Huen K, Harley K, Brooks J, Hubbard A, Bradman A, Eskenazi B, Holland N. Developmental changes in PON1 enzyme activity in young children and effects on PON1 polymorphisms. *Environ Health Perspect*. 2009;117:1632-1638.
34. Berkowitz GS, Wetmur JG, Birman-Deych E, et al. In utero pesticide exposure, maternal paraoxonase activity, and head circumference. *Environ Health Perspect*. 2004;112:388-391.
35. Wolff MS, Engel S, Berkowitz G, et al. Prenatal pesticide and PCB exposures and birth outcomes. *Pediatr Res*. 2007;61:243-250.
36. Eskenazi B, Rosas LG, Marks, AR et al. Pesticide toxicity and the developing brain. *Basic Clin Pharmacol Toxicol*. 2008;102:228-236.
37. Rosas LG, Eskenazi B. Pesticides and child neurodevelopment. *Curr Opinion Pediatr*. 2008;20:191-197.
38. Erlich PM, Lunetta KL, Cupples LA, et al. Polymorphisms in the PON gene cluster are associated with Alzheimer's disease. *Hum Mol Genet*. 2006;15:77-85.
39. Zintzaras E, Hadjigeorgiou GM. Association of paraoxonase 1 gene polymorphisms with risk of Parkinson's disease: a meta-analysis. *J Hum Genet*. 2004;49:474-481.
40. Bhattacharyya T, Nicholls SJ, Topol EJ, et al. Relationship of paraoxonase 1 (PON1) gene polymorphisms and functional activity with systemic oxidative stress and cardiovascular risk. *JAMA*. 2008;299:1265-1276.
41. Lawlor DA, Gaunt TR, Hinks LJ, et al. The association of the PON1 Q192R polymorphism with complications and outcomes of pregnancy: findings from the British Women's Heart and Health cohort study. *Paediatr Perinat Epidemiol*. 2006;20:244-250.
42. Chen D, Hu Y, Chen C, et al. Polymorphisms of the paraoxonase gene and risk of preterm delivery. *Epidemiology*. 2004;15:466-470.
43. Adigun AA, Wrench N, Siedler FJ, Slotkin T. Neonatal organophosphorus pesticide exposure alters the developmental trajectory of cell signaling cascades controlling metabolism: differential effects of diazinon and parathion. *Environ Health Perspect*. 2009; DOI: 10.1289/eph.0901237 (available at: <http://dx.doi.org>)