

RESUME

James Kotcon **Nematologist and Associate Professor of Plant Pathology**

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EXPERIENCE

1996 - Present. Associate Professor of Plant Pathology, West Virginia University. 50 % research, 50 % teaching. Teach courses in plant science, environmental impact assessment, fruit pathology, and nematology. Advise graduate and undergraduate students.

Research on organic farming systems, agricultural pests of peach and apple, environmental impacts of pesticides on groundwater quality and on nontarget organisms, biological control of nematodes.

2005. Interim National Program Leader for Organic Agriculture. USDA-CSREES. Interagency Personnel Agreement with WVU. Manage organic agriculture research and education programs, do outreach to organic stakeholders, assess leadership needs, develop CSREES strategic plan.

May 1994-Dec. 1994. Environmental Consulting. Sciences International, Inc. Ecological risk assessment at SuperFund sites; field sampling, data analysis, report writing and regulatory compliance.

Jan. 1994-May 1995. Environmental Consulting. West Virginia Environmental Council and West Virginia Citizen Action Group. Conduct environmental policy analysis, lobbying, and organizing on environmental regulatory issues.

Sept. 1985-Dec. 1993: Assistant Professor of Plant Pathology, West Virginia University.

Sept. 1983-Sept. 1985: Research Associate, Dept. of Plant Pathology, Cornell Univ., Long Island Horticultural Research Lab. Research to assess ground water contamination by pesticides.

Aug. 1979-Aug. 1983: Research Assistant, Dept. of Plant Pathology, Univ. of Wisconsin. Research on potato diseases. Assist teaching 'Plant Nematology'.

Sept. 1977-June 1979: Research Assistant, Dept. of Botany and Plant Pathology, Michigan State University. Research on ecology of plant-parasitic nematodes in vegetable crops. Assist teaching 'Nematode Diseases of Economic Plants' and 'Biology of Nematodes'.

June 1977-Sept. 1977: Lab Assistant, Nematology Extension Lab, Michigan State University.

Aug. 1976-Dec. 1976: Research Intern, Oak Ridge National Laboratory, Oak Ridge, Tennessee. Air pollution research.

EDUCATION

Ph. D. Aug. 1983. Dept. of Plant Pathology, Univ. of Wisconsin-Madison. Dissertation: Root deterioration in the Potato Early Dying Syndrome. Major Advisor: Dr. Douglas I. Rouse. Minor: Soil Science.

M. S. June 1979. Dept. of Botany and Plant Pathology, Michigan State Univ. Thesis: Studies on the ecology of nematodes associated with vegetables grown on organic soils. Major advisor: Dr. George W. Bird.

B. S. May 1976. Dept. of Biology, Univ. of Wisconsin-Stevens Point. Major: Biology (emphasis in Botany and Ecology) Minor: Chemistry

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science
American Phytopathological Society
Ecological Society of America
Organization of Nematologists of Tropical America
Society of Nematologists
Union of Concerned Scientists
International Society of Organic Agriculture Research
West Virginia Associated Crop Growers

COMMITTEES AND PROFESSIONAL SERVICE

American Phytopathological Society Potomac Division. Treasurer, 2000-2003.
American Phytopathological Society Plant Health & Environmental Quality Committee. 1999-2001.
American Phytopathological Society Nematology Committee (Past Chair).
Society of Nematologists Ecology Committee (Past Chair).
Society of Nematologists Education Committee.
NE-133 Regional Nematology Research Technical Committee (Past Chair).
Associate Editor, Journal of Nematology 1988-89, reappointed 1992-1993.
Reviewer for: Plant Disease, Nematropica, Plant Health Progress, ISOFAR Proceedings.
USDA National Research Initiative Technical Review Panel, Methyl Bromide Alternatives. 2000.
West Virginia Dept. of Agriculture Cooperative Agricultural Pest Survey Committee.
West Virginia University Ad Hoc Polystyrene Advisory Committee.
West Virginia Associated Crop Growers. Secretary-Treasurer. 2007-2018.
Mountain State Organic Growers and Buyers Association. Certification Technical Committee
Numerous Departmental and College Committees.

ENVIRONMENTAL PROTECTION/PUBLIC SERVICE ACTIVITIES

Morgantown Green Team. 2009-2018. Chair Energy Committee. Appointed by Mayor to advise on environmental sustainability policies and programs.

WV-Department of Environmental, Division of Water Resources, Antidegradation Sounding Board. 2001-2002 Review guidance documents to implement water anti-degradation rules.

West Virginia Environmental Quality Board Metals Committee. 1998-99. Interagency Committee established by EQB to provide technical input and policy guidance in developing water quality standards for dissolved metals.

WV-Division of Environmental, Office of Air Quality, Emissions Trading Working Group. 1998-99. Develop rules for implementing air pollutant emissions trading program in West Virginia.

West Virginia Voluntary Remediation and Redevelopment Act Rule-making Steering Committee. 1996-98. Technical Subcommittee 1996-1999. Developed rules and risk assessment guidance documents for WV-DEP.

West Virginia Division of Environmental Protection Reorganization Advisory Board. 1991-1993. Appointed by Gov. Gaston Caperton to represent environmental interests in environmental agency reorganization. Legislative drafting, environmental policy and public involvement committees.

West Virginia Groundwater Task Force. 1991-1992. Draft regulations implementing groundwater protection act requirements relative to agricultural chemicals.

U. S. Forest Service, Technical Review Committee. 1992-1993. Provide environmental review and technical input on research programs to assess impacts on nontarget organisms of pesticides used for gypsy moth management in forest ecosystems.

U. S. Forest Service, AIPM Interdisciplinary Environmental Assessment Team. 1991-1992. Assisted U. S. Forest Service in drafting environmental assessment documents and mediating disputes regarding Gypsy Moth research in Fernow Experimental Forest, Parsons, WV

West Virginia Sierra Club. Chapter Chair, 2016-17, and 1992-94; Legislative Chair, 1990-91, 94-09; Political Chair, 1990-2003; Conservation Chair, Monongahela Group, 1986-1988, 2010-11. Directed conservation campaigns in solid waste management, water quality, hazardous waste, public lands, and environmental policy. Coordinate Chapter Training activities. Active leader in Outings Program and Mon. Nat. Forest Trail Recovery Program.

West Virginia Environmental Council. President (1998) and member of Board of Directors 1991-2016. Legislative drafting and/or lobbying for groundwater, solid waste, industrial siting, risk assessment, environmental policy, agriculture, forestry, genetically engineered organisms, etc.

Coopers Rock State Forest Foundation. Founding member of Board of Directors. Fund raising, public involvement, and long term planning to assist state parks.

Cheat Lake Environmental and Recreation Association. Founding member of Board of Directors. Development and planning for recreation area surrounding Cheat Lake in Northern West Virginia.

TEACHING RESPONSIBILITIES

Agronomy 120. Principles of Agroecology. Agroecology is the study of interactions among organisms and the environment in agricultural systems and broader interactions with the biosphere to meet human needs and provide other ecosystem services while minimizing their ecological footprint. We will explore the structure and function of agroecosystems across a range of climate, landscape/soil, and crop and animal components and learn how other organisms and management practices affect agricultural plants and animals in communities.

Plant Science 140. Sustainable Living. Explores the personal, social, economic, and environmental aspects of making sustainable choices. Sustainability principles and practices are discussed along with assessments of consumption and lifestyle decisions.

Plant Science 206. Principles of Plant Science. Introductory course in plant science, basics of plant anatomy, physiology, and ecology and principles of agricultural and forest production.

Plant Science 453/553. Organic Crop Production. Undergraduate/Graduate level course in principles of organic crop production, including soil quality, pest management, livestock herd health and nutrition, organic certification, and organic practices.

Environmental Protection 460. Environmental Impact Assessment. Undergraduate course for upper level environmental science majors, methods of environmental assessment, preparation of environmental impact statements, and multidisciplinary field and laboratory procedures.

Plant Pathology 501. Diseases of Economic Crops. Graduate level course covering principles of fruit pathology, epidemiology, integrated pest management, and disease control.

Plant Pathology 409/509. Nematology. Undergraduate/Graduate level course in principles of plant nematology, including nematode biology, host-parasite relations, population dynamics, laboratory techniques, identification, nematode management, and nematology research methods.

Numerous special topics and seminar courses (23 credit hours, 1986-1993).

Currently advising 17 undergraduate Agroecology students, and 2 graduate students in Plant and Soil Sciences. Serve as graduate committee member for 2 graduate students.

CONTINUING EDUCATION, EXTENSION, AND OTHER TEACHING ACTIVITIES

Coordinate program for the American Phytopathological Society Potomac Division annual meetings. 2001, 2002, 2004, 2008.

Organized and chaired national colloquium 'Biological Control of Nematodes' at American Phytopathological Society meeting, Grand Rapids, MI Aug. 7, 1990.

Organized and chaired national colloquium 'Pesticides in Groundwater' at American Phytopathological Society meeting, San Diego, CA. Nov. 13-17, 1988.

Co-organizer for 'WV Groundwater 87-Status and Future Directions' Conference, Morgantown, WV. Aug. 13-15, 1987. Edited and published Conference Proceedings.

Operate West Virginia University's Nematode Diagnostic Laboratory, providing nematode identification and management recommendations to the public.

Numerous presentations at grower meetings, Extension training workshops, WVU Organic Research Farm Field Day, Integrated Orchard Management Training Program, Pesticide Training and Certification Workshops, other commodity groups, etc. Including numerous tours, poster presentations, workshops and demonstrations.

Frequent guest lectures in other classes at WVU. Numerous presentations at public meetings, testifying at public hearings, and, especially ground water, solid waste, and hazardous waste.

RESEARCH GRANTS

GRANTS FUNDED AS PRINCIPLE INVESTIGATOR

2018. Overcoming barriers to transitioning small ruminants to organic production: effects of feeding birdsfoot trefoil on parasite control, nutritional status and profitability. USDA-NIFA-ORG. **\$499,817.**

2013. Novel Approaches to Nematode management in Peach and Apple. WV department of Agriculture Specialty Crop Block grant. **\$10,800.**

2012. Forage-based Parasite Control in Sheep and Goats in the Northeast U.S. USDA-NIFA-OREI. **\$1,850,369.**

2010. Organic Sheep and Goats: Herd health and nutrition planning proposal for the Northeast US. USDA-NIFA-OREI. **\$28,344**

2008. Biological control of root lesion nematode with *Pasteuria* Spp. Organic Farming Research Foundation. **\$13,937.**

2008. Expanding International Organic Agriculture Opportunities at West Virginia University. Faculty Development Grant **\$4,179.**

2005. Interagency Personnel Agreement with USDA-CSREES for organic agriculture. USDA-CSREES. **\$34,599.**

2002-2005. Comparison of organic farming systems using off-farm nitrogen with and without animals. **USDA-Sustainable Agriculture Research and Education Program. \$149,968.**

2001-2002. Intercropping with resistant varieties for management of plant diseases in organic tomato production. **Organic Farming Research Foundation. \$8,940.**

1999-2002. Systems of transition from conventional to organic agricultural production. **USDA-Sustainable Agriculture Research and Education Program. \$217,247.**

1999-2002. Transition methods to convert from conventional to organic agricultural systems. **USDA-National Research Initiative Competitive Grants Program. \$103,329.**

1997. Development of West Virginia Voluntary Remediation and Redevelopment Guidance Document. **West Virginia Division of Environmental Protection. \$8,524.**

1991-1992. Hydrogeologic evaluations of the proposed APCO Wyoming to Cloverdale 765 kV electric power transmission line. **Appalachian Power Company. \$136,632.**

1990-1992. Nematicide mobility and biodegradation: Effects of orchard soil management. **USDA-CSRS Water Quality. \$99,924.**

1992, Renewed 1993. Research in plant nematology. **ISK Biotech. Total \$4,000.**

1990-1991, Renewed 1992. Novel rotation crops as alternatives to fumigant nematicide treatment in deciduous tree fruit production. **USDA-LISA. Total \$30,154.**

1991, Renewed 1992 and 1993. Alternative processing apple production systems and impacts on groundwater quality. **State Horticultural Association of Pennsylvania. Total \$7,250.**

1991, Renewed 1992. Integrated orchard management for processing apples. **West Virginia Tree Fruit Assessment Board. Total \$9,000.**

1987-1988, Renewed 1989. Environmental impacts of phenamiphos applied broadcast and in drip irrigation to peach orchards. **USDA National Pesticide Impact Assessment Program. Total \$41,533.**

1987. Nematicide evaluations in peach orchards. **Mobay Corporation. \$1,000.**

1986. Distribution and population dynamics of dagger nematodes, *Xiphinema* spp., associated with peach in West Virginia. **WVU Faculty Senate Research Grant. \$3,500.**

GRANTS FUNDED AS CO-INVESTIGATOR

2013. Curriculum Development for Study Abroad Program and Exploration of International Research Collaboration in Costa Rica. Daniel C. and Elizabeth Brown Faculty Development grant. **\$2,024**

2012. Whole-farm Organic Management of BMSB and Endemic Pentatomids. USDA-NIFA-OREI. **\$2,672,327.**

2009. The utility of *Crotalaria juncea* as a cover crop in a temperate climate. USDA/NE-SARE. **\$9,644**

2007. Immune status of lambs, born of protein-supplemented periparturient ewes and creep-grazed in spring, against *Haemonchus contortus*. USDA-CSREES NE-IPM Program. **\$57,000.**

2000. An investigation of the impact of biocomplexity on productivity and resistance to pest invasion in diversified agroecosystems- a survey of disease management and farming practices of organic tomato growers. **WVU Hatch Project. \$ 11,123.**

1998-2000. Environmental justice through pollution prevention: Assist state governments to identify most promising scenarios for implementing and measuring progress, and with follow-up compliance assistance to companies. **US Environmental Protection Agency. \$287,156.**

1993-1996. Ecosystem-based orchard management for processing apples. **USDA Sustainable Agricultural Research and Education Program. \$50,670.**

1992. Ecosystem-based orchard management for processing apples. **USDA National Research and Education Program on Sustainable Agriculture. \$16,200.**

1987-1991. Pesticide Impact Assessment Support: Groundwater sampling for pesticide residues. **National Pesticide Impact Assessment Program. \$5,000 per year.**

1989. Insect and Nematode management on turf grasses. **West Virginia Golf Course Superintendents Association. \$6,000.**

1987-1988. Interdisciplinary groundwater quality assessment team at West Virginia University: Formation of research team and organization of 1987 West Virginia Groundwater Conference. **WVU Water Research Institute. \$11,183.**

1985-1986. *Pratylenchus* spp. on potato: Yield response and environmental and economic impacts of fumigation. **USDA National Pesticide Impact Assessment Program. \$15,000.**

1985-1986. Mocap: Evaluation of efficacy and dissipation in soil and groundwater. **Rhone-Poulenc, Inc. \$9,240.**

1984-1985. *Pratylenchus penetrans* on potato: Yield response and environmental and economic impacts of fumigation. **USDA National Pesticide Impact Assessment Program. \$14,997.**

PUBLICATIONS

BOOK CHAPTER

Kotcon, J. B. 2010. Population Dynamics of Earthworms in Organic Farming Systems. pp. 209-310. In: Biology of Earthworms. Springer-Verlag, Heidelberg.

JOURNAL ARTICLES

Evans A. Basweti, Domingo J. Mata, Ben M. Goff, James B. Kotcon, and William B. Bryan. 2018. External Inputs and Livestock for Organic Hill Land Farming Systems in Appalachia. *Agrosystems, Geoscience and Environment* 1:1-10. Published on-line at: <https://dl.sciencesocieties.org/publications/age/pdfs/1/1/180017>

J. R. Hendricks and J. B. Kotcon. Nematode management in *Malus domestica* using endophyte-infected fescue as ground cover. *Journal of Nematology* (accepted for publication).

Mathews, C.R., B. Blaauw, G. Dively, J. Kotcon, J. Moore, E. Ogburn, D. G. Pfeiffer, T. Trope, J. F. Walgenbach, C. Welty, G. Zinati, A. L. Nielsen. 2017. Evaluating a polyculture trap crop for organic management of *Halyomorpha halys* (Hemiptera: Pentatomidae) and native stink bugs in peppers. *Journal of Pest Science*. Published on-line at: <https://link.springer.com/content/pdf/10.1007%2Fs10340-017-0838-z.pdf>

Verlinden, S., L. McDonald, **J. Kotcon**, S. Childs, T. Childers. 2017. Long-term effect of manure application in a certified organic production system on soil physical and chemical parameters and vegetable yields. *HortTechnology* 27:171-176.

Tucker, Y., **J. Kotcon** and T. Mroz. 2015. Methanogenic Archaea in Marcellus Shale: A Possible Mechanism for Enhanced Gas Recovery in Unconventional Shale Resources. *Environmental Science and Technology* 49: 7048-7055.

Tiffany L. Fess, James B. **Kotcon** and Vagner A. Benedito. 2011. Crop Breeding for Low Input Agriculture: A Sustainable Response to Feed a Growing World Population. *Sustainability* 3:1742-1772.

Gekara, J., Basweti, E., **Kotcon**, J.*, Minch, M., Eddy, J., Mata, D. & Bryan, W. 2011. Effect of protein supplementation of ewes and grazing management on performance of organic lambs. In: Neuhoﬀ, D., S.M. Sang, C. Ssekyewa, N. Halberg, I. Rasmussen & J. Hermanson, (eds.) *Organic Is Life-Knowledge for Tomorrow*. Proceedings of the Third Scientific Conference of the International Society for Organic Agriculture Research, Namnangju, Republic of Korea. ISOFAR, University of Bonn, Germany.

Kotcon, J. B. 2008. Impact of Organic Crop and Livestock Systems on Earthworm Population Dynamics. Proceedings of the 16th IFOAM World Congress, Modena Italy. 2008

Schrum, H., Kotcon, J., Verlinden, S. 2008. Organic Methods for Control of Root Rot in Pea and Spinach. Proceedings of the 16th IFOAM World Congress, Modena Italy. 2008

Salinas, K., S. Edenborn, A. Sexstone, and J. B. Kotcon. 2007. Bacterial preferences of the bacterivorous soil nematode *Cephalobus brevicauda* (Cephalobidae): Effect of bacterial type and size. *Pedobiologia* 51:55-64.

Panaccione, D. G., **J. B. Kotcon**, C. Schardl, R. Johnson, and J. Morton. 2006. Ergot alkaloids are not essential for endophytic fungus-associated population suppression of the lesion nematode, *Pratylenchus scribneri*, on perennial ryegrass. *Nematology* 8:583-590.

Salinas, K. A. and J. **Kotcon**. 2006. Effects of Kodiak ® (*Bacillus subtilis* strain GBO3) on soil-inhabiting nematodes near the rhizosphere of treated vs untreated snap bean seeds *In Situ*. *Journal of Sustainable Agriculture* 39:5-12.

Bull, C. T., C. Greene, J. B. Kotcon, and L. Oberholtzer. 2006. Organic Agriculture-Innovations in organic marketing, technology, and research: Introduction to the Proceedings. *Crop Management* doi:10.1094/CM-2006-0921-01-PS. Available at: <http://www.plantmanagementnetwork.org/pub/cm/symposium/organics/intro/>

Salinas, K. A., and J. Kotcon. 2005. In vitro culturing of the predatory soil nematode *Clarkus papillatus* and interactions among adults and juveniles. *Nematology* 7(1):5-9.

Molinari, S. F. Lamberti, L. W. Duncan, J. Halbrendt, J. Kotcon, G. Abawi, R. T. Robbins, A. Nyczepir, M. McHenry, J. C. Magunacelaya, R. Crozzoli, R. M. Lemos, P. Nagy, M. Moens, and D. J. F. Brown. 2005. SOD polymorphism in *Xiphinema americanum*-group (Nematoda: Longidoridae). *Nematology* 6(6):867-876.

Doney, J. C., Jr., and J. B. Kotcon. Nematode biocontrol agent activity I. Indirect quantification using *Pratylenchus penetrans* in a release-and-recapture procedure. *Journal of Nematology* (in preparation)

Biggs, A. R., T. A. Baugher, J. B. Kotcon, D. M. Glenn, A. R. Collins, A. J. Sexstone, H. W. Hogmire, and R. E. Byers. 1997. Growth of apple trees, populations of nematodes, voles, and

orchard floor weeds, and nitrate mobility following a corn versus fescue crop rotation. *American Journal of Alternative Agriculture* 12:162-172.

Glenn, D. M., J. Kotcon, and W. V. Welker. 1994. Tillage is necessary in re-establishing peach orchards. *HortTechnology* 4:66-67.

Biggs, A. R., J. B. Kotcon, T. A. Baugher, A. R. Collins, D. M. Glenn, H. W. Hogmire, R. E. Byers, A. J. Sexstone, and G. Lightner. 1994. Comparison of corn and fescue rotations on pathogenic nematodes, nematode biocontrol agents, and soil structure and fertility on an apple replant site. *Journal of Sustainable Agriculture* 4:39-56.

Kotcon, J. B., and M. Wimmer. 1993. Monitoring movement of fenamiphos through soil water in peach orchards using quantitation by Gas Chromatography/Mass Spectrometry. *Bulletin of Environmental Contamination and Toxicology* 50:35-42.

Jin, X., J. B. Kotcon, and J. B. Morton. 1991. Interactions between *Pratylenchus penetrans* and *Fusarium avenaceum* in red clover. *Nematropica* 21:105-109.

Kotcon, J. B. 1990. Distribution, frequency, and population density of nematodes in West Virginia peach orchards. Supplement to *Journal of Nematology (Annals of Applied Nematology)* 22:712-717.

Kotcon, J. B., R. Loria, and D. J. Wixted. 1987. *Pratylenchus penetrans* population dynamics on three potato cultivars. *Journal of Nematology* 19:361-368.

Florini, D. A., R. Loria, and J. B. Kotcon. 1987. Influence of edaphic factors and previous crop on *Pratylenchus* spp. population densities in potato. *Journal of Nematology* 19:85-92.

Kotcon, J. B., and R. Loria. 1987. Fall fumigation of potato with 1,3-dichloropropene: Efficacy against *Pratylenchus crenatus*, yield response, and groundwater contamination potential. *Plant Disease* 71:1122-1124.

Kotcon, J. B., and R. Loria. 1986. Influence of *Pratylenchus penetrans* on plant growth and water relations in potato. *Journal of Nematology* 18:385-392.

Kotcon, J. B., D. I. Rouse, and J. E. Mitchell. 1985. Interactions of *Verticillium dahliae*, *Colletotrichum coccodes*, *Rhizoctonia solani* and *Pratylenchus penetrans* in the Early Dying syndrome of Russet Burbank potatoes. *Phytopathology* 75:68-74.

Kotcon, J. B., G. W. Bird, L. Rose, and K. Dimoff. 1985. Influence of *Glomus fasciculatum* and *Meloidogyne hapla* on *Allium cepa* in organic soils. *Journal of Nematology* 17:55-60.

Kotcon, J. B., D. I. Rouse, and J. E. Mitchell. 1984. Dynamics of potato root growth in fields with the Potato Early Dying Syndrome. *Phytopathology* 74:462-467.

Kotcon, J. B., and D. I. Rouse. 1984. Root deterioration in the Potato Early Dying syndrome: Causes and effects of root biomass reductions associated with colonization by *Verticillium dahliae*. *American Potato Journal* 61:557-568.

PUBLISHED ABSTRACTS

Kotcon, J.B., K. Wheeler, R. Cline, and S. L. Carter. 2018. Susceptibility and yield loss relationships of *Meloidogyne hapla* and *M. incognita* infecting *Cannabis sativa*. (Abstract) *Journal of Nematology* 50:644.

Slone, V. and J. Kotcon. 2017. Interaction of brown marmorated stink bug and bacterial soft rot in bell pepper fruits. *Phytopathology* 107 (7): S4.5. Published on-line at: <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-107-7-S4.1>

Kotcon, J. 2016. Efficacy of Reduced-Impact Nematicides for Management of Dagger Nematode in Peach. *J. Nematology* 48:340.

Valencia, L. and J. B. Kotcon. 2016. Efficacy and mode of action of *Bacillus firmus* as a bionematicide for the northern root-knot nematode, *Meloidogyne hapla* and dagger nematode, *Xiphinema americanum*. *Journal of Nematology* 48:370-379.

Voshell, R. and J. B. Kotcon. 2014. Incidence of *Colletotrichum coccodes* in ripe fruit after feeding by Brown Marmorated Stink Bug (*Halymorpha halys*). *Phytopathology* 104 (suppl.): S3.160.

Uphold, R., J. Kotcon, T. Griggs, and E. Rayburn. 2014. Tannin content in birdsfoot trefoil in response to herbivory and season. Abstract, Crop Science Society of America Annual Meeting, Long Beach, CA. Nov. 2-5, 2014.

Poudel-Acharya, S., L.M. McDonald, T.C. Griggs and J.B. Kotcon. 2013. Phosphorus forms and availability in organically managed grassland soils. Abstract, American Society of Agronomy Annual Meeting, Tampa, FL. Nov. 3 - 6, 2013.

King, T. N. and J. B. Kotcon. 2010. Reproduction of *Pratylenchus penetrans* in soils with and without *Pasteuria* spp. Abstract. Presented at Society of Nematologists annual meeting, Boise Idaho.

Kotcon, J. B., 2009. Productivity, Pest Management, and Soil Quality in Organic Farming Systems. Proceedings of the ACS Annual Meeting, Pittsburgh, PA. Available at: <http://a-c-s.confex.com/crops/2009am/webprogram/Paper54508.html>

J. B. Kotcon. 2008. Field evaluation of organic methods for managing powdery mildew of pumpkin. American Phytopathological Society, Potomac Division meeting. Morgantown, WV.

J.B. Kotcon and W. K. Murray. 2003. Efficacy of compost and compost tea for suppression of early blight in organically grown tomato. *Phytopathology* 93 (6Supplement):S47 (Abstr.)

Salinas, K. A. S. L. Edenborn and J. B. Kotcon. 2003. The effects of a bacterial biological control agent on taxis of *Clarkus papillatus* in a laboratory bioassay. *Journal of Nematology* 35:361-362 (Abstr.)

Salinas, K. A. and J. B. Kotcon. 2002. Evaluation of two biologically derived nematicides for control of lesion nematode, *Pratylenchus* sp., and effects on predatory nematodes in organically managed soils. *Phytopathology* 92(6 Supplement):S72. (Abstr.)

Smith, L. J. and J. Kotcon. 2002. Intercropping with tomato resistant variety 'Juliet' reduces early blight on susceptible variety 'Brandywine'. *Phytopathology* 92 (6 Supplement):S77

Kotcon, J. B., A. Collins, and L. J. Smith. 2001. Impact of plant biodiversity and management

- practices on disease in organic tomatoes. *Phytopathology* 91(6 Supplement):S50. (Abstr.)
- Hendricks, J. R. and J. B. Kotcon. 2001. Role of endophyte-infected fescue for nematode suppression in West Virginia orchards. *Phytopathology* 91(6 Supplement):S135. (Abstr.)
- Biggs, A. R., J. B. Kotcon, T. A. Baugher, A. R. Collins, D. M. Glenn, H. W. Hogmire, R. E. Byers, A. J. Sexstone, and G. Lightner. 1994. The West Virginia University ecosystem project for processing apples: Comparison among Liberty, Golden Delicious, York and Fuji in the first year of growth. *Fruit Varieties Journal* 48:37
- Kotcon, J. B., and T. P. Batchelor. 1992. Population dynamics of *Xiphinema* spp. on rotation crops. *Journal of Nematology* 24:603.
- Kotcon, J. B. 1991. Assessment of nontarget impacts of fenamiphos on nematode biocontrol agents in orchard soils in West Virginia. *Journal of Nematology* 23:536.
- Kotcon, J. B. 1990. Effect of chitin-urea amendments on nematode population dynamics and nematode biocontrol agent activity in apple orchard soils. *Nematologica* 36:365.
- Kotcon, J. B. 1990. Survey of plant parasitic nematodes associated with turfgrass damage in West Virginia. *Phytopathology* 80:1012.
- Doney, J. C., Jr., and J. B. Kotcon. 1989. A quantitative assay of nematode biocontrol agent activity and its use in a Clandosan amended soil. *Phytopathology* 79:1153.
- Kotcon, J. B. 1988. Influence of drip irrigation and fenamiphos on population dynamics of *Pratylenchus*, *Xiphinema*, and *Mononchus* spp. on peach. *Journal of Nematology* 20:645.
- Kotcon, J. B. 1988. Population dynamics of overwintering dagger nematodes associated with peach in West Virginia. *Phytopathology* 78:1514.
- Kotcon, J. B. 1987. Association of soil type and texture with population density and distribution of *Pratylenchus* and *Xiphinema* species in peach orchards. *Journal of Nematology* 19:536-537.
- Wixted, D. J., R. Loria, and J. B. Kotcon. 1987. Efficacy of ethoprop on potato and the potential for groundwater contamination. *Journal of Nematology* 19:563-564.
- Kotcon, J. B., and R. Loria. 1985. Control of *Pratylenchus crenatus* and potential for groundwater contamination by 1,3-dichloropropene. *Journal of Nematology* 17:503.
- Kotcon, J. B., and R. Loria. 1985. Effect of *Pratylenchus penetrans* on plant water relations in six potato cultivars and correlation with host tolerance. *Phytopathology* 75:1305.
- Florini, D. A., J. B. Kotcon, and R. Loria. 1985. Population densities and distribution of *Pratylenchus penetrans* and *P. crenatus* in Long Island, NY, potato fields. *Phytopathology* 75:1305.
- Kotcon, J. B., and R. Loria. 1984. Tolerance of potato cultivars to damage by *Pratylenchus penetrans*. Abstract # 118. First International Congress of Nematology.
- Kotcon, J. B., D. I. Rouse, and J. E. Mitchell. 1982. Reduced root growth in potatoes with 'Early Dying' disease. *Phytopathology* 72:985.
- Kotcon, J. B., D. I. Rouse, and J. E. Mitchell. 1981. Field technique for assessing root growth as affected by potato early dying. *Phytopathology* 71:887.
- Rouse, D. I., J. E. Mitchell, W. Warfield, M. Rahimian, and J. Kotcon. 1981. Modelling the impact of plant stresses associated with potato early dying on potato plant growth and tuber yield. *Phytopathology* 71:252.

OTHER TECHNICAL PUBLICATIONS

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