David Linnard Wheeler

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Education

Washington State University, Pullman, WA — **Fall 2015-Present**
Candidate for Ph.D in Plant Pathology
Minor in Statistics
Advisor: Dr. Dennis A. Johnson

Washington State University, Pullman, WA — **Fall 2012-2015**
M.S in Plant Pathology
Advisor: Dr. Dennis A. Johnson

Temple University, Ambler, PA — **Spring 2011**
Bachelor of Science, Horticulture; Minor in Art

Societal Affiliations

American Phytopathological Society	**2012-Present**
Potato Association of America	**2013-Present**
Department of Plant Pathology Graduate Student Organization	**2012-Present**
President	**2012-2013**

Awards

Graduate Student Oral Presentation, 2nd Place. APS Pacific Division Meeting, La Conner, WA.	**Summer 2016**
Ann Chittenden Holland Master's Thesis Award	**Spring 2016**
Everett and Helen Kreizinger Scholarship	**Fall 2015-Spring 2016**
Recipient of the 59th Annual Conference on Soilborne Plant Pathogens Scholarship Award	**Spring 2013**
Peter G. Schlotterer Ecological Restoration Scholarship	**Spring 2011**
Pi Alpha Xi National Honors Society Award	**Spring 2011**
School of Environmental Design Alumni Association Award	**Spring 2011**
Member of Golden Key International Honors Society	**Spring 2010**
Recipient of the Pennsylvania Landscape and Nursery Association Foundation Scholarship	**Spring 2010**
Recipient of the Flemming Fund scholarship	**Spring 2010**
Member of Pi Alpha Xi (PAX) Honors Horticultural Society	**Spring 2008-Present**
President	**Fall 2010**

Professional Presentations (since 2016)

Soil-fumigation: discovery, application and alternatives. 2017 Washington and Oregon Potato Conference and Trade Show. January 25th, 2017. Three Rivers Convention Center, Kennewick, WA.

Diagnostics for Verticillium wilt. Washington Mint Convention. December 6th. 2016. Three Rivers Convention Center, Kennewick, WA.

Disease-suppression of Verticillium wilt with crop rotation. Tilth Alliance. November 12th 2016. Wenatchee Convention Center, Wenatchee, WA.

Evidence that specific rotation crops infected by *Verticillium dahliae* in Washington State do not serve as reservoirs for the mating type, *MAT1-1*. American Phytopathological Society. June 29th 2016. Maple Hall La Conner, WA

The Potential Effects of Weeds and Seed Treatments on Verticillium Wilt of Potato. Potato Field Day. June 23rd, 2016. Othello Potato Research Station, Othello, WA.

Management of Verticillium wilt. 2016 Washington Mint Commission Field Day. June 7th, 2016. Irrigated Agricultural Research and Extension Center, Prosser, WA.

Occurrence and Attenuation of *Verticillium dahliae* in Rotational Crops of Potato. 2016 Washington and Oregon Potato Conference and Trade Show. January 28th, 2016. Three Rivers Convention Center, Kennewick, WA.

Peer-Reviewed Publications

Wheeler, D.L. and Johnson, D.A. 2016. *Verticillium dahliae* infects, alters plant biomass, and produces inoculum on rotation crops. Phytopathology 106:602-613:

Publications

Wheeler, D.L. and Johnson, D.A. 2015. Potential Management of Verticillium Wilt of Potato with Rotation Crops. Potato Progress Report. *XV:* 15

Wheeler, D.L. and Johnson, D.A. 2014. *Verticillium dahliae* Infects Specific Rotational of Potato in the Columbia Basin, WA. 2014 Proceeding of the Washington- Oregon Potato Conference 52-63

Wheeler, D.L., and Johnson, D.A., 2014. Specific rotation crops react differentially to *Verticillium dahliae*.WA Mint Drops, Spring 2014, pg. 2

Wheeler, D.L., and Johnson, D.A., 2013.*Verticillium dahliae* infects specific rotation crops of potato in the Columbia Basin, WA. Phytopathology 104(Suppl. 3):S3.185

Workshops

Studying Gene Expression by RNA-Seq: From Library Prep to Data Analysis. June 2nd, 2015. Washington State University, Pullman WA.
Proteomics workshop, November17-18th, 2014. University of Chicago. Greenberg and Kron labs
Grant Writing Workshops

Grants

- Contributed to concept and full proposals and reports for regional potato and mint commissions for 2012-2018

PROFESSIONAL RESUME

Dennis A. Johnson
Professor of Plant Pathologist
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Pullman, Washington 99164-6430
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EDUCATI0N

Institution	Degree	Year	Major Subject
Pocatello High School	Diploma	1968	
Idaho State University	--	1970	
Brigham Young University	B.S.	1973	Botany, Plant Physiology
University of Minnesota	M.S.	1975	Plant Pathology
University of Minnesota	Ph.D.	1978	Plant Pathology

RESEARCH SPECIALTY

Plant Epidemiology, Disease Resistance, Plant Health Management

PROFESSIONAL AFFILIATIONS

American Phytopathological Society (APS), American Phytopathological Society - Pacific Division, The Canadian Phytopathological Society, Potato Association of America, President of APS - Pacific Division - 2008-2009

AWARDS

Kenneth J. Morrison Extension Award, 2012. For outstanding contributions to the agronomic improvement and sustainability of Washington's potato industry
Fellow of American Phytopathological Society, 2011
Lifetime Achievement Award – APS - Pacific Division, 2011
Honorary Life Member of Potato Association of America, 2009
Outstanding Mentor, WSU Mentor of the Year Awards Program, 2009
Friend of the Mint Industry, 1994

SELECTED PUBLICATIONS

Frederick, Z.A., Cummings, T.F., **Johnson, D.A.** 2017. Susceptibility of weedy hosts from Pacific Northwest potato production systems to crop-aggressive isolates of *Verticillium dahliae*. Plant Dis. 101: in press

Frederick, Z.A., Cummings, T.F., Brown, C.R., Quick, R.A., and **Johnson, D.A.** 2017. Evaluation of *Solanum sisymbriifolium* as a potential inoculum source of *Verticillium dahliae* and *Colletotrichum coccodes*. Plant Dis. 101: in press

Porter, L.D., Brown, C.R., Jansky, S.H., **Johnson, D.A**., and Dung, J.K.S. 2017. Tuber resistance and slow-rotting characteristics of potato clones in the SolCAP Diversity Panel to the US-24 clonal lineage of *Phytophthora infestans*. Am. J. Potato Res. 94:160-172.

Hansen, Z.R., Carlson, M.O., Everts, K.L., Fry, W.E., Gevens, A.J., Grunwald, N.J., Gugino, B.K., Knaus, B.J., **Johnson, D.A**., Johnson, S.B. Judelson, H.S., McGrath, M.T., Myers, K.L. Ristaino, J.B., Roberts, P.D., Secor, G.A., and Smart, C.D. 2016. Genetic variation within clonal lineages of *Phytophthora infestans* revealed through genotyping-by-sequencing, and implications for late blight epidemiology. PLoS ONE 11(11): e0165690. doi:10.1371/journal.pone.0165690

Wheeler, D.L., and **Johnson, D.A.** 2016. *Verticillium dahliae* infects, alters plant biomass, and produces inoculum on rotation crops. Phytopathology 106:602-613.

Johnson, D.A., and Cummings, T.F. 2016. In-canopy environment of sprinkler irrigated potato fields as a factor for late blight management in the semiarid environment of the Columbia Basin. Am. J. Potato Res. 93:239-252
Tymon, L.S., Cummings, T.F., and **Johnson, D.A.** 2016. Pathogenicity and aggressiveness of three *Alternaria* species on potato foliage. Plant Dis. 100:797-801.
Tymon, L.S., Peever, T.L., **Johnson, D.A**. 2016. Identification and enumeration of small-spored *Alternaria* species associated with potato in the U.S. Northwest. Plant Dis. 100.
Johnson, D.A., Cummings, T.F. 2015. Effect of powdery scab root galls on yield of potato. Plant Dis. 99:1396-1403.
Johnson, D.A., and Cummings, T.F. 2015. Effect of extended crop rotations on incidence of black dot, silver scurf and Verticillium wilt of Potato. Plant Dis. 99:257-262.
Johnson, D.A., Cummings, T.F., and Fox, A.D. 2015. Accuracy of rain forecasts for use in scheduling late blight management tactics in the Columbia Basin of Washington and Oregon. Plant Dis. 99:683-690.
Attanayake, R.N., Tennekoon, V., **Johnson, D.A.**, Porter, L.D., del Rio-Mendoza, L., Jiang, D., and Chen, W. 2014. Inferring outcrossing in the homothallic fungus *Sclerotinia sclerotiorum* using linkage disequilibrium decay. Heredity 113:353-363.
Dung, J.K.S., **Johnson, D.A**., and Schroeder, B.K. 2014. Role of co-infection by *Pectobacterium* spp. and *Verticillium dahliae* in the development of early dying and aerial stem rot of potato. Plant Pathology 63:299-307.
Johnson, D.A., 2014. Slow-rusting resistance in native spearmint to *Puccinia menthae*. Plant Dis. 98:62-66.
Johnson, **D.A**., and Atallah, Z.K. 2014. Disease cycle, development and management of Sclerotinia stem rot of potato. American Journal of Plant Sciences 5:3717-3726. http://dx.doi.org/10.4236/ajps.2014.525388
Miller, J.S., and **Johnson, D.A**. 2014. Aggressiveness of *Phytophthora infestans* genotypes on potato stems and leaves at three temperatures. Am. J. of Potato Res. 91:538-553.
Dung, J.K.S., **Johnson, D.A**., and Schroeder, B.K. 2013. Role of co-infection by *Pectobacterium* spp. and *Verticillium dahliae* in the development of early dying and aerial stem rot of potato. Plant Pathology
Dung, J.K.S., Hamm, P.B., Eggers, J.E., and **Johnson, D.A**. 2013. Incidence and impact of *Verticillium dahliae* in soil associated with certified potato seed lots. Phytopathology 103:55-63.
Johnson, D.A., and Cummings, T.F. 2013. A plant stem inoculation assay for assessing transmission of *Phytophthora infestans* from potato seed tubers to emerged shoots. Plant Dis. 97:183-188.
Dung, J.K.S., Peever, T.L., and **Johnson, D.A**. 2013. Microsatellite analysis of *Verticillium dahliae* from mint and potato reveal divergent clonal populations. Phytopathology 103: in press
Johnson, D.A., Baker, R., and Boydston, R.A. 2013. Field evaluation of mutant and hybrid lines of mint for resistance to Verticillium wilt and yield. Crop Protection 43:1-6.
Dung, J.K.S., Ingram, J.T., Cummings, T.F., and **Johnson, D.A.** 2012. Impact of seed lot infection on the development of black dot and Verticillium wilt of potato in Washington. Plant Dis. 96:1179-1184.