

# CURRICULUM VITAE

University of Idaho

**NAME:** Phillip Wharton

**DATE:** February 1, 2013

**RANK OR TITLE:** Assistant Professor, Potato Pathology

**DEPARTMENT:** Plant, Soil and Entomological Sciences

**OFFICE LOCATION AND CAMPUS ZIP:**

Aberdeen R&E Center  
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**EDUCATION BEYOND HIGH SCHOOL:**

**Degrees:**

Ph.D., 1997. University of Reading, UK. Plant Disease Resistance.  
BSc.(Hons), 1993. University of Reading, UK. Biological Sciences.

**Certificates and Licenses:**

Campbell Scientific Inc. Certified in the programming, operation and hardware maintenance of Campbell Scientific CR10X weather stations and associated instruments.  
Idaho State Department of Agriculture Professional Pesticide Applicators License

**EXPERIENCE:**

**Teaching, Extension and Research Appointments:**

2008-present, Assistant Professor of Potato Pathology, University of Idaho, Aberdeen, ID  
2003-2008, Visiting Assistant Professor-Potato Pathology, Department of Plant Pathology, Michigan State University, MI  
2001-2003, Senior Research Associate-Small Fruit Diseases, Department of Plant Pathology, Michigan State University, MI  
1999-2001, Postdoctoral Research Associate-Tree Fruit Diseases, Department of Horticulture, Michigan State University, MI  
1997-1999, Postdoctoral Research Associate-Disease Resistance in Cereals, Department of Botany and Plant Pathology, Purdue University, IN

**TEACHING ACCOMPLISHMENTS:**

**Areas of Specialization:**

Plant Pathology, Disease forecasting, Fungicide resistance, Plant disease resistance, epidemiology and biology of host-pathogen interactions.

**Courses Taught:**

2012, Guest lectured for PISC 501, Plant Science Seminar, University of Idaho (1 lecture).  
2012, Guest lecturer for PISC 490/590 Potato Science, University of Idaho (1 lectures).  
2010, Guest lecturer for PISC 490/590 Potato Science, University of Idaho (2 lectures).

**Materials Developed:**

**Web Pages:**

2011, Idaho Potato Diseases	<a href="http://www.idahopotatodiseases.org">http://www.idahopotatodiseases.org</a>
2005-present. Late Blight Risk Monitoring:	<a href="http://www.lateblight.org">http://www.lateblight.org</a>
2004-present. Michigan Potato Diseases:	<a href="http://www.potatodiseases.org">http://www.potatodiseases.org</a>
2003-2010. Michigan Blueberry Facts:	<a href="http://www.blueberryfacts.org">http://www.blueberryfacts.org</a>
2000-present. Sorghum Diseases:	<a href="http://www.sorghumanthracnose.org">http://www.sorghumanthracnose.org</a>

**HONORS AND AWARDS:**

Photograph on the front cover of the *American Journal of Potato Research*, May-June 2007 issue.  
Micrograph on the front cover of *Plant Disease*, April 2005 issue.  
Second prize in the Olympus Inc. Bioscapes International Digital Imaging Competition 2004.  
Micrograph on the front cover of *Anales del Jardín Botánico de Madrid* issue 1 vol. 61, 2004.  
Micrograph on the front cover of the journal *Phytopathology*, Feb 2001 issue.

APSnet “Image of the Week”, illustrating sporulation of *Blumerilla jaapii* on tart cherry leaves. American Phytopathological Society website.

Final Year Prize in Biological Sciences for the top senior in the class, University of Reading, 1993.

#### PROFESSIONAL AND SCHOLARLY ORGANIZATIONS:

The American Phytopathological Society, member (1997-present)

The Potato Association of America, member (2004-present)

The British Society for Plant Pathology, member (2000-present)

The Australasian Plant Pathology Society, member and Senior Editor (2013 – present)

The Idaho Association of Plant Protection, member (2008-present)

#### REFEREED PUBLICATIONS:

##### Book Chapters:

Baker, K.M., Wharton, P.S., Stein, J., Paz, J., and Kirk, W.W. 2009. Building True Forecasts into Crop Disease Management Systems. In: Computers in Agriculture, Nova Science Publishers.

Kirk, W.W., and Wharton, P.S. 2013. Fungal and bacterial disease aspects of potato production. In: The Potato: Botany, Production and Uses, CABI (in Press).

##### Journals:

Miles, T.D., Miles, L.A., Fairchild, K., and Wharton, P.S. 2013. Screening and characterization of resistance to succinate dehydrogenase inhibitors in *Alternaria solani*. *Plant Pathology*, in press.

Fairchild, K., Miles, T., Wharton, P.S., 2012. Assessing fungicide resistance in populations of *Alternaria* in Idaho potato fields. *Crop Protection*, in press.

Wood, E.M., Miles, T., Wharton, P.S., 2013. The use of natural plant volatile compounds for the control of the potato postharvest diseases, black dot, silver scurf and soft rot. *Biological Control* 64, 152-159.

Wharton, P.S., Kirk, W.W., Schafer, R.L., and Tumbalam, P., 2012. Evaluation of biological seed treatments in combination with management practices for the control of seed-borne late blight in potato. *Biological Control* 63, 326-332.

Gachango, E., Kirk, W., Schafer, R., and Wharton, P.S., 2012. Evaluation and comparison of biocontrol and conventional fungicides for control of postharvest tuber diseases. *Biological Control* 63, 115-120.

Woodhall, J.W., Lutomirska, B., Peters, J.C., and Wharton, P.S., 2012. *Rhizoctonia solani* anastomosis group 3 is predominant in potato tubers in Poland. *Plant Disease* in press. Available online at <http://dx.doi.org/10.1094/PDIS-05-12-0482-PDN>.

Woodhall, J.W., Wharton, P.S., and Peters, J.C., 2012. First Report of *Rhizoctonia solani* AG4 HG-II Infecting Potato Stems in Idaho. *Plant Disease* 96(11), 1701.

Woodhall, J.W., Belcher, A.R., Peters, J.C., Kirk, W.W., and Wharton, P.S., 2012. First report of *Rhizoctonia solani* AG2-IIIB infecting potato stems and stolons in the USA. *Plant Disease* 96(3), 460.

Wharton P.S., Fairchild, K., Belcher, A., and Wood, E. 2012. First Report of In-Vitro Boscalid-Resistant Isolates of *Alternaria solani* Causing Early Blight of Potato in Idaho. *Plant Disease* 96(3), 454.

Kirk, W.W., \*Rojas, A., Tumbalam, P.G., Gachango, E., Wharton P.S., Abu El-Samen, F., Douches, D., Coombs, J., Thill, C., Thompson, A. 2010. Effect of different genotypes of *Phytophthora infestans* (Mont. de Bary) and temperature on tuber disease development. *American Journal of Potato Research*. Vol. 87(6), 509-520.

Kirk, W.W., Abu-El Samen, F., Tumbalam, P., Wharton, P.S., Douches, D., Thill, C.A., Thompson, A. 2009. Impact of different US genotypes of *Phytophthora infestans* on potato seed tuber rot and plant emergence in a range of cultivars and advanced breeding lines. *Potato Research* 52, 121-140.

Kirk, W. W., Wharton, P.S., Schafer, R. L., Tumbalam, P., Poindexter, S., Guza, C., Fogg, R., Schlatter, T., Stewart, J. Hubbel, L. and Ruppel, D. 2008. Optimizing fungicide timing for the control of *Rhizoctonia* crown and root rot of sugar beet using soil temperature and plant growth stages. *Plant Disease* 92, 1091-1098.

**Wharton, P.S.**, Kirk, W.W, Duynslager, L., and Baker, K.M., 2008. A web-based interactive system for risk management of *Phytophthora infestans* in potato canopies in Michigan. *Computers and Electronics in Agriculture* 61, 136-148.

**Wharton P.S.**, and Schilder, A.C., 2008. Novel infection strategies of *Colletotrichum acutatum* on ripe blueberry fruit. *Plant Pathology* 57, 122-134.

#### **CURRENT INFORMATION SERIES AND EXTENSION BULLETINS:**

Olsen, N., **Wharton, P.S.**, and Nolte, P., 2012. *Superficial Growth on Potatoes*. University of Idaho CIS Bulletin 1191.

Kirk, W.W., Merlington, A., and **Wharton, P.S.**, 2012. Black Dot. Michigan State University Extension Bulletin E-3181.

Kirk, W.W., and **Wharton, P.S.**, 2012. Brown Leaf Spot. Michigan State University Extension Bulletin E-3182.

**Wharton, P.S.**, and Kirk, W.W., 2007. A Pocket Guide to Disease Scouting in Michigan Potatoes. *Michigan State University Extension Bulletin E-2998*.

**Wharton, P.S.**, and Kirk, W.W., 2007. White Mold. *Michigan State University Extension Bulletin E-2989*.

**Wharton, P.S.**, Driscoll, J., Douches, D., Hammerschmidt, R., and Kirk, W.W., 2007. Common Scab. *Michigan State University Extension Bulletin E-2990*.

**Wharton, P.S.**, and Kirk, W.W., 2007. Early Blight. *Michigan State University Extension Bulletin E-2991*.

**Wharton, P.S.**, and Kirk, W.W., 2007. Fusarium Dry Rot. *Michigan State University Extension Bulletin E-2992*.

**Wharton, P.S.**, and Kirk, W.W., 2007. Pink Rot. *Michigan State University Extension Bulletin E-2993*.

**Wharton, P.S.**, Kirk, W. W., Berry, D., and Snapp, S., 2007. Rhizoctonia Stem Canker and Black Scurf of Potato. *Michigan State University Extension Bulletin E-2994*.

**Wharton, P.S.**, and Kirk, W.W., 2007. Seed Piece Health Management. *Michigan State University Extension Bulletin E-2995*.

Kirk, W. W., **Wharton, P.S.**, Hammerschmidt, R., Abu-El Samen, F., and Douches, D., 2004. Late Blight. *Michigan State University Extension Bulletin E-2945*.

**Wharton, P.S.**, and Schilder, A.M.C., 2003. Blueberry Fruit Rot Identification Guide. *Michigan State University Extension Bulletin E-2847*.

#### **IMPACT Statements:**

**Wharton, P.S.**, 2012. Use of natural plant volatiles to control potato postharvest diseases. *University of Idaho Cooperative Extension System IMPACT Statement*.

**Wharton, P.S.**, 2011. Preventing yield losses in potato from late blight outbreaks. *University of Idaho Cooperative Extension System IMPACT Statement*.

**Wharton, P.S.**, 2011. The impact of fungicide resistance on early blight disease management. *University of Idaho Cooperative Extension System IMPACT Statement*.