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Date: December, 2020

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EDUCATION BEYOND HIGH SCHOOL:

Degrees:

1992 Ph.D., Plant Pathology, 1992 University of Illinois, Champaign-Urbana, IL

1988 M.S., Plant Sciences, University of Delaware, Newark, DE

1986 B.S., Plant Sciences, *Magna Cum Laude*, University of Delaware, Newark, DE

SCHOLARSHIP ACCOMPLISHMENTS:

Publications, Exhibitions, Performances, Recitals: Refereed Publications (Books):

Damon Smith, Kiersten Wise, Anna Freije, Adam Sisson, Albert Tenuta, Andrew Friskop, Emmanuel Byamukama, Juliet M. Marshall, Mary Burrows, and Daren Mueller. 2020. A Farmer's Guide to Wheat Diseases. APS Press, MN.

Book Chapter:

McMullen, M., Burrows, M., **Marshall, J.M.** 2021. Diseases of Barley *In: Diseases of Field Crops*. Hollier, Clayton (ed). APS Press, MN.

Smiley, R.W. and **Marshall, J.M.** 2015. Resistance and tolerance of spring wheat and barley to *Heterodera avenae* in the USA. In. A.A. Dababat and R.W. Smiley (eds.). Nematodes of Small Grain Cereals: Current Status and Research. FAO, Rome, Italy. ISBN:978-92-5-108878-4. copyright FAO, 2015.

Refereed / Adjudicated:

Woodhall, J.W., Brown, L., Harrington, M., Pizolotto, C.A., Keith, S., **Marshall, J.M.** 2020. First Report of *Rhizoctonia solani* AG 11 causing stem rot of *Phaseolus vulgaris* stems in Idaho. Plant Disease. Published Online: 20 Jul 2020 <https://doi.org/10.1094/PDIS-03-20-0666-PDN>

Rashidi, M., Cruzado, R.K., Hutchinson, P.S.J., Bosque-Perez, N.A., **Marshall, J.M.** and Rashed, A. 2020. Grassy weeds and corn as potential sources of Barley yellow dwarf virus (BYDV) spread onto winter wheat", Published online 27 Jul 2020 in Plant Disease. <https://doi.org/10.1094/PDIS-05-20-1004-RE>

Pizolotto, C.A., Brown, L., Harrington S., Murdock, M., Harrington M., Woodhall, J.W., Moll, M., **Marshall, J.M.** 2020. First Report of *Rhizoctonia solani* AG4 HG-II infecting barley stems in Idaho. Plant Disease. Accepted for publication 6/11/20.

- Chen, J., Wheeler, J., Klassen, N., Zhao, W., O'Brien, K., Jackson, C., **Marshall, J.M.**, Schroeder, K., Chen, X.M. 2020. Registration of 'UI Bronze Jade' hard white winter wheat, *Journal of Plant Registrations*, 10.1002/plr2.20029, 0, 0, (2020). <https://doi.org/10.1002/plr2.20029> Published: 14 May 2020.
- Kruse, E., Carter, A., Klos, K., **Marshall, J.M.**, Murray, T. 2019. Evaluating Selection of a Quantitative Trait: Snow Mold Tolerance in Winter Wheat. *Agrosyst. Geosci. Environ.* 2:190059 (2019) doi:10.2134/age2019.07.0059.
- Hu, G., Evans, C.P., Satterfield, K., Ellsberg, S., **Marshall, J.M.**, Schroeder, K., Obert, D.E. 2019. Registration of 'Goldenhart', a Two-Rowed Spring Food Barley. *J. of Plant Registrations* 13:119-122. doi:10.3198/jpr2018.10.0067crc
- Liang X, Rashidi M, Rogers CW, **Marshall J.M.**, Price, W.J., and Rashed A. 2019. Winter wheat (*Triticum aestivum* L.) response to Barley yellow dwarf virus at different nitrogen application rates in the presence and absence of its aphid vector, *Rhopalosiphum padi* L. (Hemiptera: Aphididae). *Entomologia Experimentalis et Applicata*. 2019:1-10. DOI:10.1111/eea.12748. <http://dx.doi.org/10.1111/eea.12748>
- Baldwin, T.T., Arcibal, S.M., Klos, K., Bregitzer, P., **Marshall, J.M.** 2019. Deletion of the benzoxazinoid detoxification gene NAT1 in *Fusarium graminearum* reduces deoxynivalenol in spring wheat. *Accepted 03/19 PloS* 14(7): e0214230. <https://doi.org/10.1371/journal.pone.0214230>
- Ensafi, P., Crowder, D.W., Esser, A.D., Zhao, Z., **Marshall, J.M.**, Rashed, A. 2018. Soil Type Mediates the Effectiveness of Biological Control Against *Limoniuss californicus* (Coleoptera: Elateridae) *Journal of Economic Entomology*. Sep 2018, 111(5):2053-2058.
- Walsh, O., Shafian, S., **Marshall, J.M.**, Jackson, C., McClintick-Chess, J.R., Blanscet, S.M., Swoboda, K., Thompson, C. 2018. Assessment of UAV Based Vegetation Indices for Nitrogen Concentration Estimation in Spring Wheat. *Advances in Remote Sensing*. 2018(7):71-90.
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- Kidwell, K. K., Kuehner, J. S., Shelton, G. B., DeMacon, V. L., Ryneerson, S., Chen, X.M., Guy, S.O., **Marshall, J. M.**, Engle D.A., See, D.R., Morris, C. F., and Pumphrey, M.O. 2018. Registration of 'Dayn' Hard White Spring Wheat. *Journal of Plant Registrations* 2018 12:2: 222-227. doi:10.3198/jpr2017.10.0075crc
- Chen, J., Wheeler, J., Zhao, W., Klassen, N., O'Brien, K., **Marshall, J.M.**, Jackson, C., Schroeder, K., Higginbotham, R., and Chen, X. 2017. Registration of 'UI Sparrow' wheat. *Journal of Plant Registrations*. doi:10.3198/jpr2017.04.0021crc
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- Bregitzer, P., Hu, G., **Marshall, J.M.**, and Rayboy, V. 2017. Registration of 'Sawtooth' low-phytate, hullless, spring barley. PR-2016-09-0049-CRC. *Journal of Plant Registrations* 2017 Vol. 11 No. 2:81-84. doi:10.3198/jpr2016.09.0049crc
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- Hu, G., Evans, C.P., Satterfield, K., Ellsberg, S., **Marshall, J.M.**, Obert, D.E. 2016. Registration of 'Kardia', a Two-Rowed Spring Food Barley. *J. of Plant Registrations*. Vol. 10 No. 3, p. 213-216.

Smiley, R., and **Marshall, J.M.** 2016. Detection of dual *Heterodera avenae* resistance plus tolerance traits in spring wheat. *Plant Dis.* 100:1677-1685. <http://apsjournals.apsnet.org/doi/pdfplus/10.1094/PDIS-09-15-1055-RE>

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Meints, B., Brouwer, B.O., Brown, B., Cuesta-Marcos, A., Jones, S., Kolding, M., Fisk, S., **Marshall, J.M.**, Murphy, K., Petrie, S., Rhinhart, K., Ross, A.S., and Hayes, P.M. 2015. Registration of #STRKR Barley Germplasm. *J. of Plant Registrations.* 9:3:388-392. doi:10.3198/jpr2014.09.0066crg

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G. Hu, D.E. Obert, C.P. Evans, K. Satterfield, S. Ellberg, **J.M. Marshall**, A. Budde, and C. Martens. 2014. Registration of ‘Merem’ Spring Malting Barley. *J. of Plant Registrations* 8:233-235.

Zhang, J., J. Chen, B. Bowman, K. O’Brien, **J.M. Marshall**, and J.M. Bonman. 2014. Association Mapping of Hagberg Falling Number in Hard White Spring Wheat. *Crop Sci.* 54:1243–1252. doi: 10.2135/cropsci2013.08.0551

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Islamovic, E., D.E. Obert, A.D. Budde, M. Schmitt, R. Brunick II, A. Kilian, S. Chao, G.R. Lazo, **J.M. Marshall**, E.N. Jellen, P.J. Maughan, G. Hu, K.E. Klos, R.H. Brown, and E.W. Jackson. 2014. QTL of barley malting quality trait components in the Stellar/01Ab8219 mapping population. *Molecular Breeding.* 34(1):59-73. doi:10.1007/s11032-014-0017-3

Islamovic, E., D.E. Obert, R.E. Oliver, **J.M. Marshall**, K.J. Miclauss, A. Hang, S. Chao, G. Lazo, S.A. Harrison, A. Ibrahim, E.N. Jellen, P.J. Maughan, R.H. Brown, and E.W. Jackson. 2013. A new genetic linkage map of barley (*Hordeum vulgare* L.) facilitates genetic dissection of height and spike length and angle. *Field Crops Research journal.* *Field Crops Res.* (2013). In Press, Corrected Proof, Available online 23 August 2013. <http://dx.doi.org/10.1016/j.fcr.2013.06.001>

Chen, J., J. Wheeler, J. Clayton, W. Zhao, K. O’Brien, C. Jackson, **J. M. Marshall**, B.D. Brown, K. Campbell, X.M. Chen, R. Zemetra, and E.J. Souza. 2013. Registration of ‘UI Stone’ Wheat. *J. Plant Registration* 7: 321-326.

Smiley, R. W., **J.M. Marshall**, J.A. Gourlie, T.C. Paulitz, S.L. Kandel, M.O. Pumphrey, K. Garland-Campbell, G.P. Yan, M.D. Anderson, M. Flowers, and C.A. Jackson. 2013. Spring wheat tolerance and resistance to *Heterodera avenae* in the Pacific Northwest. *Plant Disease* 97: 590-600.
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Stark, J.C., Love, S.L., King, B.A., **Marshall, J.M.**, Bohl, W.H., and Salaiz, T. 2013. Potato Cultivar Response to Seasonal Drought Patterns. *American Journal of Potato Research*. *Am. J. Potato Res.* 90(3):207-216. DOI 10.1007/s12230-012-9285-9.
<http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s12230-012-9285-9>

Obert, D.E., Hang, A., Hu, G., Burton, C., Satterfield, K., Evans, C.P., **Marshall, J.M.** and Jackson, E.W. 2013. Registration of 'Julie' High beta-Glucan Spring Barley. *Journal of Plant Registrations*. Vol. 7(1):1-4. doi:10.3198/jpr2011.12.0639c

Islamovic, E., Obert, D.E., Oliver, R.E., Harrison, S.A., Ibrahim, A., **Marshall, J.M.**, Miclaus, K.J., Hu, G., Jackson, E.W. 2012. Genetic dissection of grain beta-glucan and amylose content in barley (*Hordeum vulgare* L.). *Mol Breeding* DOI 10.1007/s11032-012-9764-1.

Smiley, R.W., Gourlie, J.A., Rhinhart, K.E.L., **Marshall, J.M.**, Anderson, M.D. and Yan, G. 2012. Influence of Nematicides and Fungicides on Spring Wheat in Fields Infested with Soilborne Pathogens. *Plant Dis.* 96:1537-1547.

Chen, J., Souza, E. J., Guttieri, M. J., O'Brien, K., Wheeler, J., Sorensen, L., Clayton, J., Chen, X.M., Goates, B. J., Hole, D., Brown, B. D., **Marshall, J. M.**, and R. Zemetra. 2012. Registration of 'UI SRG' Wheat. *Journal of Plant Registrations*, Vol. 6, No. 1:66-70. doi:10.3198/jpr2011.06.0318c

Obert, D.E., A. Hang, G. Hu, C. Burton, K. Satterfield, C.P. Evans, **J.M. Marshall**, and E.W. Jackson. 2011. Registration of 'Transit' high beta-glucan barley. *Journal of Plant Registrations* Vol. 4: No. 5:1-3. DOI 10.3198/jpr2010.09.0539c.

Smiley, R. W., Marshall, J. M., and Yan, G. P. 2011. Effect of foliarly-applied spirotetramat on reproduction of *Heterodera avenae* on wheat roots. *Plant Dis.* 95:983-989.

Jackson, C.A., **Windes (Marshall)*, J.M.**, Bregitzer, P., Obert, D.E., Price, W., and Brown, B. 2009. Phosphorus fertility effects on the expression of the low phytic acid barley phenotype." *Crop Sci.* 49:1800-1806. *corresponding author as major professor

Peer Reviewed/ Evaluated Research Reports:

Marshall, J.M., Yimer, B., Shelman, T., Jones, L., Arcibal, S., Hogge, J., Hatch, J., Moll, M., and O'Brien, K. 2021. 2020 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin XXX. 150 pp. University of Idaho, Idaho Agricultural Experiment Station Bulletin. CIS BUL 9XX. *In preparation.*

Marshall, J.M., Yimer, B., Shelman, T., Jones, L., Arcibal, S., Hogge, J., Moll, M., Jackson, C., and O'Brien, K. 2020. 2019 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 202. 150 pp.
https://www.uidaho.edu/-/media/UIIdaho-Responsive/Files/Extension/topic/cereals/scse/2019/small-grains-report_2019.pdf

Marshall, J.M., Jackson, C.A., Shelman, T., Jones, L., Arcibal, S., and O'Brien, K. 2019. 2018 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 196. 150 pp.
<http://www.cals.uidaho.edu/edComm/pdf/RES/RES193.pdf>

Peer Reviewed/ Evaluated: Plant Disease Management Reports:

Marshall, J.M., Arcibal, S., Jackson, C.A., Shelman, T. 2019. Foliar fungicides for control stripe rust in irrigated WB 936 hard red spring wheat, Bingham Co, ID, 2018. *Plant Disease Management Report (Field, Cereal and Forage Crops)* CF189.

Marshall, J.M., Arcibal, S., Jackson, C.A., Shelman, T. 2019. Foliar fungicides for control of Fusarium head blight in irrigated Cabernet hard red spring wheat, Bingham Co, ID, 2018. Plant Disease Management Report (Field, Cereal and Forage Crops) CF190.

Marshall, J.M., Arcibal, S., Jackson, C.A., Shelman, T. 2018. Foliar fungicides for control of Fusarium head blight in irrigated Klasic hard white spring wheat, Bingham Co, ID, 2017. Plant Disease Management Report (Field, Cereal and Forage Crops) CF210.

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Marshall, J.M., Arcibal, S., Jackson, C.A., Shelman, T. 2018. Foliar fungicides for control of foliar diseases in barley, Bingham Co, ID, 2017. Plant Disease Management Report (Field, Cereal and Forage Crops) CF209.

Marshall, J.M., Jackson, C.A., Hogge, J., Shelman, T. 2018. Fungicide seed treatment for control of loose smut disease in Klasic hard white spring wheat, Bingham and Bonneville Co, ID, 2017. Plant Disease Management Report (Seed Treatments) ST008.

Marshall, J.M., Rashidi, Jackson, C., and Rashed, A. 2017. Seed and foliar treatments to reduce impacts of Barley yellow dwarf virus (BYDV) in Idaho, 2015-2016. Plant Disease Management Report CF006. <https://www.plantmanagementnetwork.org/pub/trial/pdmr/reports/2017/ST008.pdf>

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Smiley, R.W.; **Marshall, J.M.** 2014. ^[1]_[SEP]"Spring wheat resistance and tolerance to cereal cyst nematode, 2013." March/2014. Plant Disease Management Report. 8:N007.

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Marshall, J.M., Shelman, T., Jackson, C.A. 2014. ^[1]_[SEP]"Foliar fungicide treatments for control of stripe rust in spring wheat, Bingham Co, ID, 2013." March/2014. ^[1]_[SEP] Plant Disease Management Report No. 8:CF038.

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Peer Reviewed/ Evaluated Extension Bulletins or Publications:

Marshall, J.M., Rogers, C.W., Rashed, A., Liang, X., Walsh, O.S., and Adjesiwor, A. 2020. Southern Idaho Hard Spring Wheat Quick Facts. Idaho Agricultural Experiment Station. UI Extension Bulletin 986.

Marshall, J.M., Rogers, C.W., Rashed, A., Liang, X., Walsh, O.S., and Adjesiwor, A. 2020. Southern Idaho Soft White Wheat Quick Facts. Idaho Agricultural Experiment Station. UI Extension Bulletin 984.

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Rashed, A., F. Etzler, C. Rogers, and **J.M. Marshall**. 2015. Wireworms in Idaho Cereals: A Guide to Monitor Numbers and Identify Predominant Species in the Intermountain Region. University of Idaho, Idaho Agricultural Experiment Station Current Information Series. CIS BUL 898. <http://www.cals.uidaho.edu/edcomm/pdf/BUL/BUL0898.pdf>.

Rogers, C.W., **J.M. Marshall**, A. Rashed, D.W. Morishita. 2015. Barley Quick Facts. University of Idaho, Idaho Agricultural Experiment Station Current Information Series. CIS 1217. <http://www.cals.uidaho.edu/edcomm/pdf/CIS/CIS1217.pdf>

Marshall, J.M. and A. Rashed. CIS: Barley Yellow Dwarf Virus in Idaho Cereal Crops. 2014. University of Idaho, Idaho Agricultural Experiment Station Current Information Series. CIS 1210. <http://www.cals.uidaho.edu/edcomm/pdf/CIS/CIS1210.pdf>

Smiley, R., Paultiz, T., and J. Marshall. 2012. Controlling Root and Crown Diseases of Small Grain Cereals. PNW Bulletin 639 Dec 2012.

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Salgado, J.D., Bergstrom, G., Bradley, C., Bowen, K., Byamukama, E., Byrne, A., Collins, A., Cowger, C., Cummings, J., Chapara, V., Chilvers, M.I., Dill-Macky, R., Darby, H.M., Friskop, A., Kleczewski, N., Madden, L.V., Marshall, J., Mehl, H., Negelkirk, M., Stevens, J., Smith, D., Smith, M., Wegulo, S., Wise, K., Yabwalo, D., Young-Kelly, H.M., Paul, P.A. 2017. Efficacy of two-treatment fungicide programs for FHB Management: A multistate coordinated project. Proceedings of the 2017 National Fusarium Head Blight Forum. Dec 3-5, 2017. Page 20. https://scabusa.org/pdfs/NFHBF17_Proceedings_PF_Web.pdf

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Petrisko, J.E., Sutherland, M.W., and **Windes, J.M.** Genes involved in Hypersensitive Cell Death Responses During Fusarium Crown Rot Infection in Wheat. Proceedings of the meeting “Plant Health Management: An Integrated Approach”. The Australasian Plant Pathology Society, Sept 29-Oct 1, 2009. Newcastle Civic Precinct, NSW Australia. www.australasianplantpathologysociety.org.au.

Abstracts:

Yimer, B., Baldwin, S.A., Baldwin, T.T., Dong, Y. and Marshall, J.M. 2020. Evaluation of winter wheat varieties and selections for FHB resistance in southeast Idaho. Abstract and Poster at USWBSI National Fusarium Head Blight Forum, Milwaukee, WI. Dec 8 – 9, 2020

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