

CURRICULUM VITAE

NAME

Manmathan, Harish Kumarimandhiram

ADDRESS

Soil and Crop Sciences
College of Agricultural Sciences

PHONE

(000) 000-0000

EDUCATION

Ph D, Univ of Maine

ACADEMIC POSITIONS

July 1, 2012 - Present Special Assistant Professor, Colorado State University.

January 18, 2010 - June 30, 2012 Post Doc, Colorado State University.

SABBATICALS

(2014) Scott Hlaey, Bi o-statistics course in Washington 2014

PUBLISHED WORKS

Refereed Journal Articles

Ostlie, M., Haley, S. D., Anderson, V. A., Shaner, D., Manmathan, H. K., Beil, C. T., Westra, P. (2015). Development and characterization of mutant winter wheat (*Triticum aestivum* L.) accessions resistant to the herbicide quizalofop. *Theoretical and Applied Genetics*, 128(2), 343-351. <Go to ISI>://WOS:000348447600014

Manmathan, H. K., Shaner, D., Snelling, J., Tisserat, N. A., Lapitan, N. L. (2013). Virus-induced gene silencing of *Arabidopsis thaliana* gene homologues in wheat identify genes conferring improved drought tolerance. *J Exp Bot*, 64, 1381-92.

Non-Refereed Journal Articles

Cooper, J. K., Manmathan, H. K., Haley, S. D., Poland, J., Morris, C. Genomic prediction for end-use quality in hard winter wheat. *Molecular Breeding*.

Cooper, J. K., Haley, S. D., Manmathan, H. K., Poland, J., Morris, C. Genomic selection models for pre-harvest sprouting tolerance are improved by weighting QTL identified via genome-wide association. *Molecular Breeding*.

Manmathan, H. K., Jahn, C. E., Haley, S. D. TILLING-by-Sequencing – an efficient method to screen induced mutants in wheat. *Plant Methods*.

Manmathan, H. K., Haley, S. D. Relative wheat SNP order from linkage disequilibrium estimates between SNPs

and assembly of bins for use in genomic selection and genome-wide association studies. *Genes, Genomes, Genetics*.

Manmathan, H. K. (2015). Choosing between pathogenicity and saprophytism: A case study from *Rhizactonia solani*, a potato pathogen. *Mycosphere*. www.mycosphere.org/pdf/Mycosphere_6_4_8.pdf

Ostlie, M., Haley, S. D., Manmathan, H. K., Westra, P. (2015). Development and characterization of mutant winter wheat (*Triticum aestivum* L.) accessions resistant to the herbicide quizalofop. *Theoretical and Applied Genetics*.

Edae, E., Byrne, P. F., Manmathan, H. K., Haley, S. D., Moragues, M., Lopes, M., Reynolds, M. (2013). Association mapping and nucleotide sequence variation in five drought tolerance candidate genes in spring wheat. *The Plant Genome*, 6(2). doi:10.3835/plantgenome2013.04.0010

Manmathan, H. K., Shaner, D., Snelling, J., Tisserat, N. A., Lapitan, N. L. (2013). Virus-induced gene silencing of *Arabidopsis thaliana* gene homologues in wheat identifies genes conferring improved drought tolerance. *Journal of Experimental Botany*, 64(5), 1381-1392.

Manmathan, H. K. (2012). Gene expression associated with quinic-acid-induced hypovirulence in *Rhizoctonia solani*. *PhD Dissertation*.

Abstract

Latshaw, S., Manmathan, H. K., Haley, S. D. (2014). *Whole genome prediction of grain yield and grain protein concentration in hard winter wheat*. National Association of Plant Breeders annual meeting.

Edae, E., Byrne, P. F., Haley, S. D., Manmathan, H. K., Moragues, M. (2013). *Association mapping of drought tolerance candidate genes in spring wheat*. San Diego, CA: Plant Animal Genome Conference.

Protocol

Manmathan, H. K., Lapitan, N. L. (2013). *Measuring germination percentage in wheat* (8/20/2013 ed.). Bio-Protocols. <http://www.bio-protocol.org/wenzhang.aspx?id=866>

Protocols

Manmathan, H. K., Lapitan, N. L. (2013). *Rapid induction of water stress in wheat* (8/20/2013 ed.). Bio-Protocols. <http://www.bio-protocol.org/wenzhang.aspx?id=867>

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

January 2016, "Population genomics of glyphosate-resistant Palmer amaranth (*Amaranthus palmeri*) using genotyping-by-sequencing (GBS)", Plant and Animal Genome XXIV.

December 3, 2015, "Use of Next Generation Sequencing and mutation breeding for Human health related traits in wheat - a practical view' at Department of Food Science and Human Nutrition", Department of Food Science and Human Nutrition, csu.

September 9, 2015, "Genotyping by Sequencing: challenges and solutions", BSPM seminar series, BSPM.

April 29, 2013, "TILLING by sequencing", KSU, Wheat Genetics Resource Center group, (Presenter) Manmathan, H. K., Throckmorton Hal.

OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

(September 21, 2015 - Present). The Data Scientist’s Toolbox, Johns Hopkins University.

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS

Data Analysis consultaion

Gene expression analysis. Number of times program was made: 12. Total number of participants: 1. Percent Responsible: 5%. 2nd Quarter 2014.

COMMITTEES

Committee on Non-Tenure-Track Faculty, (October 1, 2015 - Present).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

American Society of Agronomy. (January 1, 2015 - December 1, 2015).

American Society of Plant Biologists. (January 1, 2015 - December 1, 2015).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Academic, Journal of Agricultural Science and Technology, United States. (August 20, 2014 - Present).

Academic, Craig Beil - Soil and Crop Sciences, Fort Collins, CO, United States. (July 1, 2014 - Present).

Academic, Bio-protocols. (October 1, 2013 - Present).

Academic, Amarillo, Texas, United States. (September 1, 2015 - December 1, 2015).

Academic, Brookings, SD, United States. (September 1, 2015 - December 1, 2015).

Academic, Ben Convey, Soil and Crop Sciences, Fort Collins, CO, United States. (January 5, 2015 - January 7, 2015).

For Profit Organization, Cargill, Fort Collins, CO, United States. (June 30, 2014 - July 31, 2014).

Academic, Jessica Cooper- Soil and Crop Sciences, Fort Collins, CO, United States. (June 1, 2014 - July 1, 2014).

Academic, Susan Latshaw- Soil and Crop Sciences, Fort Collins, CO, United States. (May 1, 2014 - July 1, 2014).
