Publications by the team members relevant to the proposed research

A. Refereed journal articles from the previous SCRI-SREP (Grant # 2008-51180-04875)
(Graduate Students' names are underlined)

1. Bag, S., H.F. Schwartz, **C.S. Cramer, M.J. Havey, and H.R. Pappu** (2015). Iris yellow spot virus (*Tospovirus: Bunyaviridae*): From obscurity to research priority. *Molecular Plant Pathology* 16: 224–237. DOI:10.1111/mpp.12177
2. Bag, S., N. Mitter, S. Eid., and **H.R. Pappu**. 2012. Genetic complementation between two tospoviruses facilitates the systemic movement of a plant virus silencing suppressor in an otherwise restrictive host. *PLoS ONE* http://dx.plos.org/10.1371/journal.pone.0044803.
3. Bag, S., H.F. Schwartz, and **H.R. Pappu**. 2012. Characterization of biologically distinct isolates of Iris yellow spot virus (genus *Tospovirus*, Family *Bunyaviridae)*, a serious pathogen of onion. *European Journal of Plant Pathology* 134:97-104.
4. Bag, S., K.L. Druffel and **H.R. Pappu**. 2010. Structure and genome organization of the large RNA of Iris yellow spot virus (genus *Tospovirus*, family *Bunyaviridae*). *Archives of Virology* 155:275–279 (DOI 10.1007/s00705-009-0568-5).
5. Bag, S., S. Rondon, K.L. Druffel, D.G. Riley and **H.R. Pappu**. 2014. Seasonal dynamics of thrips (Thrips tabci) transmitters of Iris yellow spot virus (*Tospovirus:Bunyaviridae*), a serious viral pathogen of onion bulb and seed crops. *Journal of Economic Entomology* 107: 75-82. DOI: http://dx.doi.org/10.1603/EC13141
6. Bag, S., K.L. Druffel, T. Salewsky, and **H.R. Pappu**. 2009. Nucleotide sequence and genome organization of the medium RNA of Iris yellow spot virus (genus *Tospovirus*, family *Bunyaviridae*) from the United States. *Archives of Virology* 154:715-718.
7. Bag, S., and **H.R. Pappu**. 2009. Symptomatology of Iris yellow spot virus in selected indicator hosts. *Plant Health Progress*. doi:10.1094/PHP-2009-0824-01-BR.
8. Boateng, C.O., H.F. Schwartz, **M.J. Havey** and K. Otto. 2014. Evaluation of onion germplasms for resistance to Iris yellow spot virus and/or onion thrips (*Thrips tabaci*). *Southwestern Entomologist* 39:237-260.
9. **Cramer, C.S**., N. Singh, N. Kamal, and H.R. Pappu 2014. Screening onion plant introduction accessions for tolerance to onion thrips and Iris yellow spot virus. *HortScience* 49:1253-1261.
10. **Cramer, C.S**., S. Bag, H.F. Schwartz, and **H.R. Pappu**. 2011. Susceptibility of onion relatives (*Allium* spp) to *Iris yellow spot virus*. *Plant Disease* 95:1319.
11. Damon, S., R. Groves, and **M.J. Havey**. 2014. Variation for epicuticular waxes on onion foliage and impacts on numbers of onion thrips. *J. Amer. Soc. Hort. Sci*. 139:495–501.
12. Damon, S., and **M.J. Havey**. 2014. Quantitative trait loci controlling amounts and types of epicuticular waxes in onion. *J. Amer. Soc. Hort. Sci.* 139:597-602.
13. Duangjit, J., K. Welsh, M. Wise, B. Bohanec, and **M.J. Havey**. 2014. Genetic analyses of anthocyanin concentrations and intensity of red-bulb color among segregating haploid progenies of onion. *Molecular Breeding* 34:75-85.
14. Duangjit, J., B. Bohanec, A.P. Chan, C.T. Town, and **M.J. Havey**. 2013. Transcriptome sequencing to produce SNP-based genetic maps of onion. *Theor. Appl. Genet.* 126:2093–2101.

15. **Havey, M.J**. 2013. Single nucleotide polymorphisms in linkage disequilibrium with the male-fertility restoration (Ms) locus of onion. *J. Amer. Soc. Hort. Sci*. 138:306–309.
16. Iftikhar, R., S.V. Ramesh, S. Bag, M. Ashfaq and **H.R. Pappu**. 2014. Global analysis of population structure, spatial and temporal dynamics of genetic diversity and evolutionary lineages of Iris yellow spot virus (*Tospovirus: Bunyaviridae*). *Gene* 547:111-118. DOI: 10.1016/j.gene.2014.06.036
17. Khrustaleva, L., J. Jiang, and **M.J. Havey**. 2016. High-resolution tyramide-FISH mapping of markers tightly linked to the male-fertility restoration (Ms) locus of onion. Theor. Appl. Genet. 129:535-545.
18. **Pappu, H.R**., Bag S (2014) ICTV taxonomic proposal 2014.004aV.A.v2. Tospovirus_sp. Create 1 new species in the genus *Tospovirus*, family *Bunyaviridae*. Ratification vote on taxonomic proposals to the International Committee on Taxonomy of Viruses (2015). *Archives of Virology* 160:1837–1850. http://www.ictvonline.org/proposals-14/2014.004aV.A.v2.Tospovirus_sp.pdf
19. Von Kohn, C., A. Kiełkowska, and **M.J. Havey**. 2013. Sequencing and annotation of the chloroplast DNAs of normal (N) male-fertile and male-sterile (S) cytoplasms of onion and single nucleotide polymorphisms distinguishing these cytoplasms. *Genome* 56:737–742.
20. Zhai, Y., S. Bag, N. Mitter, M. Turina, and **H.R. Pappu**. 2014. Mutational analysis of two highly conserved motifs in the silencing suppressor coded by tospoviruses (*Tospovirus, Bunyaviridae*). *Archives of Virology*. DOI 10.1007/s00705-013-1928-8

B. Extension and Outreach Outputs from the previous SCRI-SREP

1. Cramer, C.S. 2013. Onion germplasm selected for resistance to Iris yellow spot. *NM Agricultural Experiment Station Rel*ease Note, 5 pp.
2. Cramer, C.S. Breeding for resistance to Iris yellow spot. Annual meeting of Pacific Northwest Vegetable Association, Pasco, Wash. Nov. 13, 2013.
3. Cramer, C.S. Breeding for resistance to Iris yellow spot. Annual meeting of Hazera Genetics/Nickerson-Zwaan. Visalia, CA. July 30, 2013.
4. Cramer, C.S. Breeding for resistance to Iris yellow spot. Annual Onion Field Day. Las Cruces, NM, July 16, 2013.
5. Cramer, C.S. Screening onion entries for tolerance/resistance to *Iris yellow spot virus*. NM Hispanic Farmers and Ranchers Annual Conference. Las Cruces, NM. July 20, 2012.
6. Cramer, C.S. Screening onion entries for tolerance/resistance to *Iris yellow spot virus*. Annual Onion Field Day. Las Cruces, NM, July 18, 2012.
7. Cramer, C.S. Screening onion entries for tolerance/resistance to *Iris yellow spot virus*. Annual Onion Field Day. Las Cruces, NM, July 20, 2011.
8. Cramer, C.S. Screening winter-sown onion entries for *Iris yellow spot virus* resistance. Annual meeting. New Mexico Dry Onion Commission. Las Cruces, NM. Mar. 10, 2011.
9. Cramer, C.S. Screening winter-sown onion entries for *Iris yellow spot virus* resistance. New Mexico Dry Onion Commission meeting. Las Cruces, NM. March 24, 2010.
10. Cramer, C.S. Screening onion entries for tolerance/resistance to Iris yellow spot virus. NM Onion Field Day. Las Cruces, NM. July 21, 2010.

11. Cramer, C.S. 2010. Screening of onion plant introduction accessions for Iris yellow spot disease severity. 2010 University Research Council Research and Creative Arts Fair. Las Cruces, NM. Oct. 1, 2010.
12. Cramer, C.S. Screening onion plant introduction accessions for *Iris yellow spot virus* resistance. National Onion Association Annual Convention. San Antonio, TX. Dec. 2-5, 2009.
13. Havey, M.J. 2009. USDA funds a major grant on translational genomics of onion. *Onion World* 25:16-17.
14. Havey, M.J., C. Cramer, H. Pappu, and H. Schwartz. 2011. USDA Specialty Crops Research Initiative funds drive research on genetic control of thrips-virus complex. *Onion World* 27:20-21.
15. Pappu, H.R. 2010. Update on Iris yellow spot virus: Do's and Don'ts to manage it. Annual meeting of the Pacific Northwest Vegetable Association, Kennewic, WA
16. Pappu, H.R. 2013. Managing Iris yellow spot virus in onion. Annual meeting of the Pacific Northwest Vegetable Association, Kennewick, WA

C. <u>Other publications by the team members that are relevant to this proposal</u>

1. Alston, D. G., Nault, B., Cranshaw, W.S., Hardin, J., Srinivasan, R., and Waters, T. 2013. Insects and their management. Pp. 49-56. In, Onion Health Management and Production. Schwartz, H. F. and Bartolo, M. E. (editors). Colorado State University Bull. Fort Collins, CO.

2. Baez, I., Reitz, S.R., Funderburk, J.E., Olson, S.M., 2011. Variation within and between Frankliniella thrips species in host plant utilization. Journal of Insect Science 11, 41.

3. Chen, S., Y. Xu and M. C. Qian "Aroma characterization of chinese rice wine by gas chromatographyâ€“olfactometry, chemical quantitative analysis, and aroma reconstitution." Journal of agricultural and food chemistry 61(47): 11295-11302.

4. Davis, P.M., M. C. Qian. 2011. Progress on volatile sulfur compound analysis in wine. Volatile Sulfur Compounds in Food. Michael C. Qian, Xuetong Fan, Kanjana Mahattanatawee Eds. ACS SYMPOSIUM SERIES 1068, ACS Publisher.

5. Demirozer, O., Tyler-Julian, K., Funderburk, J., Leppla, N., Reitz, S., 2012. Frankliniella occidentalis (Pergande) integrated pest management programs for fruiting vegetables in Florida. Pest Management Science 68, 1537-1545.

6. Diaz-Montano, J., J. Fail, M. Deutschlander, B. A. Nault and A. M. Shelton. 2012. Characterization of resistance, evaluation of the attractiveness of plant odors, and effect of leaf color on different onion cultivars to onion thrips (Thysanoptera: Thripidae). J. Econ. Entomol. 105(2): 632-641.

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8. Diaz-Montano, J., M. Fuchs, B. A. Nault and A. M. Shelton. 2012. Resistance to onion thrips (Thysanoptera: Thripidae) in onion cultivars does not prevent infection by *Iris yellow*

spot virus following vector-mediated transmission. Florida Entomol. 95(1): 156-161.

9. Diaz-Montano, J., M. Fuchs, B. A. Nault and A. M. Shelton. 2010. Evaluation of onion cultivars for resistance to onion thrips (Thysanoptera: Thripidae) and *Iris yellow spot virus*. J. Econ. Entomol. 103(3): 925-937.
10. Du, X., C. Finn and M. C. Qian 2010. "Distribution of volatile composition in "marion"(rubus species hyb) blackberry pedigree." Journal of agricultural and food chemistry 58(3): 1860-1869.
11. Du, X., C. E. Finn and M. C. Qian 2010. "Bound volatile precursors in genotypes in the pedigree of "marion" blackberry (rubus sp.)." Journal of agricultural and food chemistry 58(6): 3694-3699.
12. Du, X., C. E. Finn and M. C. Qian 2010. "Volatile composition and odour-activity value of thornless "black diamond" and "marion" blackberries." Food chemistry 119(3): 1127-1134.
13. Du, X., A. Kurnianta, M. Mcdaniel, C. Finn and M. Qian 2010. "Flavour profiling of "marion" and thornless blackberries by instrumental and sensory analysis." Food chemistry 121(4): 1080-1088.
14. Du, X. and M. Qian. 2010. Evaluation of solid phase extraction-direct microvial insert thermal desorption for volatile analysis in berry fruits in Recent Advances in Food and Flavor Chemistry. C-T Ho, C,J. Mussinan, F. Shahidi and E. Tratras Contis. Eds. pp 43-49. RSC Publishing.
15. Du, X. and M. Qian 2010. Flavor chemistry of small fruits: Blackberry, raspberry, and blueberry. ACS symposium series, Oxford University Press.
16. Du, X. and M. Qian 2010. Fractionation and identification of aroma-active constituents in thornless trailing'black diamond'blackberry. ACS symposium series, Oxford University Press.
17. Fan, W., Y. Xu and M. C. Qian 2012. "Identification of aroma compounds in chinese "Moutai" And "Langjiu" Liquors by normal phase liquid chromatography fractionation followed by gas chromatography/olfactometry." Flavor chemistry of wine and other alcoholic beverages 1104: 303-338.
18. Fok, E. J., J. D. Petersen, and B. A. Nault. 2014. Relationships between insect predator populations and their prey, Thrips tabaci, in onion fields grown in large-scale and small-scale cropping systems. BioControl 59: 739-748.
19. Feng, H., F. Yuan, P. A. Skinkis and M. C. Qian 2015. "Influence of cluster zone leaf removal on pinot noir grape chemical and volatile composition." Food chemistry 173: 414-423.
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27. Hsu, C., C. A. Hoepting, M. Fuchs, A. M. Shelton and B. A. Nault. 2010. Temporal dynamics of *Iris yellow spot virus* and its vector, *Thrips tabaci* (Thysanoptera: Thripidae), in seeded and transplanted onion fields. Environ. Entomol. 39(2): 266-277.

28. Hsu, C., C. A. Hoepting, M. Fuchs, E. Smith and B. A. Nault. 2011. Sources of Iris yellow spot virus in New York. Plant Disease 95: 735-743.

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42. Multani, P.S., C.S. Cramer, R.L. Steiner, and R. Creamer. 2009. Screening winter-sown onion entries for Iris yellow spot virus tolerance. HortScience 44:627–632.
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