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### **Education**

<u>Degree</u>	<u>Major</u>	<u>Year</u>	<u>Institution</u>
B.S.	Plant Pathology	1977	Iowa State University
M.S.	Plant Pathology	1983	University of Wisconsin
Ph.D.	Plant Breeding-Plant Genetics and Plant Pathology	1984	University of Wisconsin

### **Refereed Publications**

1. Havey, M.J., and K.J. Frey. 1978. Optimal sample sizes and number per plot and replicate number for seed weights in oats. *Cereal Res. Comm.* 6:113-122.
2. Havey, M.J., and C.R. Grau. 1985. Decline of established alfalfa in soils naturally infested with *Phytophthora megasperma* f. sp. *medicaginis* and level of correlation with a seedling assay. *Plant Dis.* 69:221-224.
3. Havey, M.J., and D.P. Maxwell. 1987. Inheritance of Phytophthora root rot resistance in two diploid alfalfa species. *Crop Sci.* 27:225-228.
4. Havey, M.J., D.P. Maxwell, and J.A.G. Irwin. 1987. Independent inheritance of genes conditioning resistance to Phytophthora root rot from diploid and tetraploid alfalfa. *Crop Sci.* 27:873-879.
5. Havey, M.J., and D.P. Maxwell. 1988. Transfer of disease resistance from diploid to tetraploid alfalfa using unreduced female gametes. *Plant Disease* 72:603-604.
6. Havey, M.J., J.C. Faria, D.P. Maxwell, and D.J. Hagedorn. 1988. Partial resistance to anthracnose in Brazilian land races of dry beans shows race specificity. *Euphytica* 39:167-174.
7. Havey, M.J., and F.J. Muehlbauer. 1989. Linkages between restriction fragment length, isozyme and morphological markers in lentil. *Theor. Appl. Genet.* 77:395-401.
8. Havey, M.J., and F.J. Muehlbauer. 1989. Variability for restriction fragment length polymorphisms and phylogenies in lentil. *Theor. Appl. Genet.* 77:839-843.
9. Havey, M.J. 1991. Phylogenetic relationships among cultivated *Allium* species from restriction enzyme analysis of the chloroplast genome. *Theor. Appl. Genet.* 81:752-757.
10. Havey, M.J. 1991. Molecular characterization of the interspecific origin of viviparous onion. *J. Hered.* 82:501-503.
11. Havey, M.J. 1992. Restriction enzyme analysis of the nuclear 45s ribosomal DNA of six cultivated Alliums. *Plant Syst. Evol.* 181:45-55.
12. Havey, M.J. 1992. Restriction enzyme analysis of the chloroplast and nuclear 45s ribosomal DNA of *Allium* sections *Cepa* and *Phyllodolon*. *Plant Syst. Evol.* 183:17-31.
13. Havey, M.J. 1993. A putative donor of S-cytoplasm and its distribution among open-pollinated populations of onion. *Theor. Appl. Genet.* 86:128-134.
14. Smith, K.P., M.J. Havey, and J. Handelsman. 1993. Protection by *Bacillus cereus* of harvested cucumber fruit from cottony leak. *Plant Dis.* 77:139-142.
16. Havey, M.J., and O.H. Bark. 1994. Molecular confirmation that sterile cytoplasm has been introduced into open-pollinated Grano onion cultivars. *J. Amer. Soc. Hort. Sci.* 119:90-93.

17. Bark, O.H., J.N. Corgan, and M.J. Havey. 1994. RFLP analysis of progeny from an interspecific hybrid between *Allium fistulosum* and *Allium cepa*. *J. Amer. Soc. Hort. Sci.* 119:1046-1049.
18. Kennard, W.K., K. Poetter, A. Dijkhuizen, V. Meglic, J.E. Staub, and M.J. Havey. 1994. Linkages among RFLP, RAPD, isozyme, disease resistance, and morphological markers in narrow and wide crosses of cucumber. *Theor. Appl. Genet.* 89:42-48.
19. Havey, M.J. 1995. Identification of cytoplasm using the polymerase chain reaction to aid in the extraction of maintainer lines from open-pollinated populations of onion. *Theor. Appl. Genet.* 90:263-268.
20. Bark, O.H., and M.J. Havey. 1995. Similarities and relationships among open-pollinated populations of the bulb onion as estimated by nuclear RFLPs. *Theor. Appl. Genet.* 90:607-614.
21. Kennard, W.K., and M.J. Havey. 1995. Quantitative trait analysis of fruit quality in cucumber: QTL detection, confirmation, and comparison with mating-design variation. *Theor. Appl. Genet.* 91:53-61.
22. Bradeen, J.M., and M.J. Havey. 1995. Randomly amplified polymorphic DNA in bulb onion and its use to assess inbred integrity. *J. Amer. Soc. Hort. Sci.* 120:752-758.
23. Bradeen, J.M., and M.J. Havey. 1995. Restriction fragment length polymorphisms reveal considerable nuclear divergence within a well defined maternal clade in *Allium* section *Cepa* (Alliaceae). *Amer. J. Bot.* 82:1455-1462.
24. Havey, M.J., and W.T. Randle. 1996. Combining abilities for yield and bulb quality among long- and intermediate-day open-pollinated onion populations. *J. Amer. Soc. Hort. Sci.* 121:604-608.
25. Dijkhuizen, A., W.C. Kennard, M.J. Havey, and J.E. Staub. 1996. RFLP variability and genetic relationships in cultivated cucumber. *Euphytica* 90:79-87.
26. Havey, M.J. 1997. Predominant paternal transmission of the mitochondrial genome in cucumber. *J. Hered.* 88:232-235.
27. Havey, M.J. 1997. On the origin and distribution of normal cytoplasm of onion. *Gen. Res. Crop Evol.* 44:307-313.
28. King, J.J., J.M. Bradeen, O. Bark, J.A. McCallum, and M.J. Havey. 1998. A low-density genetic map of onion reveals a role for tandem duplication in the evolution of an extremely large diploid genome. *Theor. Appl. Genet.* 96:52-62.
29. Havey, M.J., J. McCreight, B. Rhodes, and G. Taurick. 1998. Differential transmission of the cucurbit organellar genomes. *Theor. Appl. Genet.* 97:122-128.
30. King, J.J., J.M. Bradeen, and M.J. Havey. 1998. Variability for RFLPs and relationships among elite commercial inbred and virtual hybrid populations of onion. *J. Amer. Soc. Hort. Sci.* 123:1034-1037.
31. Havey, M.J., and D. Leite. 1999. Toward the identification of cytoplasmic male sterility in leek: Evaluation of organellar DNA diversity among cultivated accessions of *Allium ampeloprasum*. *J. Amer. Soc. Hort. Sci.* 124:163-165.
32. Havey, M.J. 1999. Seed yield, floral morphology, and lack of male-fertility restoration of male-sterile onion (*Allium cepa*) populations possessing the cytoplasm of *Allium galanthum*. *J. Amer. Soc. Hort. Sci.* 124:626-629.
33. Havey, M.J. 2000. Diversity among male-sterility-inducing and male-fertile cytoplasm of onion. *Theor. Appl. Genet.* 101:778-782.
34. Park, Y.H., S. Sensoy, C. Wye, R. Antonise, J. Peleman, and M.J. Havey. 2000. A genetic map of cucumber composed of RAPDs, RFLPs, AFLP markers and loci conditioning resistance to papaya ringspot and zucchini yellow mosaic viruses. *Genome* 43:1003-1010.
35. Lilly, J.W., and M.J. Havey. 2001. Sequence analysis of a chloroplast intergenic spacer for phylogenetic estimates and a PCR-based polymorphism detecting mixtures of male-fertile and male-sterile cytoplasmic onion. *Theor. Appl. Genet.* 102:78-82.

36. Lilly, J.W., M.J. Havey, S. Jackson, and J. Jiang. 2001. Cytogenomic analyses reveal structural plasticity in the chloroplast genome of higher plants. *Plant Cell* 13:245-254.
37. Galmarini, C.R., I.L. Goldman, and M.J. Havey. 2001. Genetic analyses of correlated solids, flavor, and health-enhancing traits in onion (*Allium cepa* L.). *Mol. Gen. Genomics* 265:543-551.
38. Kuhl, J.C., R.E. Hanneman, Jr., and M.J. Havey. 2001. Characterization and mapping of *Rp11*, a late blight resistance locus from diploid (1EBN) Mexican *Solanum pinnatisectum*. *Mol. Genet. Genomics* 265:977-985.
39. Villanueva-Mosqueda, E., and M.J. Havey. 2001. Genetic analyses of seed yield in onion. *J. Amer. Soc. Hort. Sci.* 126:575-578.
40. Lilly, J.W., and M.J. Havey. 2001. Short repetitive motifs contributed significantly to the huge mitochondrial genome of cucumber. *Genetics* 159:317-328.
41. Lilly, J.W., G. Bartoszewski, S. Malepszy, and M.J. Havey. 2001. A major deletion in the mitochondrial genome is transmitted with MSC phenotype of cucumber. *Curr. Genet.* 40:144-151.
42. McCallum, J., D. Leite, M. Pither-Joyce, and M.J. Havey. 2001. Expressed sequence markers for genetic analysis of bulb onion (*Allium cepa*). *Theor. Appl. Genet.* 103:979-991.
43. Kuhl, J.C., M.J. Havey, and R.E. Hanneman, Jr. 2002. A genetic study of unilateral incompatibility between diploid (1EBN) Mexican species *Solanum pinnatisectum* and *S. cardiophyllum* subsp. *cardiophyllum*. *Sexual Plant Reprod.* 14:305-313.
44. Gökçe, A.F., J. McCallum, Y. Sato, and M.J. Havey. 2002. Molecular tagging of the *Ms* locus in onion. *J. Amer. Soc. Hort. Sci.* 127:576-582.
45. Peterka, H., H. Budahn, O. Schrader, and M.J. Havey. 2002. Transfer of a male-sterility-inducing cytoplasm from onion to leek (*Allium ampeloprasum*). *Theor. Appl. Genet.* 105:173-181.
46. Havey, M.J., M. Cantwell, M.G. Jones, R.W. Jones, N.E. Schmidt, J. Uhlig, J.F. Watson, and K.S. Yoo. 2002. Significant variation exists among laboratories measuring onion bulb quality traits. *HortScience* 37:1086-1087.
47. Gökçe, A.F., and M.J. Havey. 2002. Linkage equilibrium among tightly linked RFLPs and the *Ms* locus in open-pollinated onion populations. *J. Amer. Soc. Hort. Sci.* 127:944-946.
48. Bohanec, B., M. Jakše, and M.J. Havey. 2003. Genetic analyses of gynogenetic haploid production in onion. *J. Amer. Soc. Hort. Sci.* 128:571-574.
49. Jakše, M., M.J. Havey, and B. Bohanec. 2003. Chromosome doubling procedures of onion (*Allium cepa* L.) gynogenic embryos. *Plant Cell Rep.* 21:905-913.
50. Kuhl, J.C., F. Cheung, Q. Yuan, W. Martin, Y. Zewdie, J. McCallum, A. Catanach, P. Rutherford, K.C. Sink, M. Jenderek, J.P. Prince, C.D. Town, and M.J. Havey. 2004. A unique set of 11,008 onion (*Allium cepa*) ESTs reveals expressed sequence and genomic differences between monocot orders Asparagales and Poales. *Plant Cell* 16:114-125.
51. Bartoszewski, G., S. Malepszy, and M.J. Havey. 2004. Mosaic (MSC) cucumbers regenerated from independent cell cultures possess different mitochondrial rearrangements. *Curr. Genet.* 45:45-53.
52. Bartoszewski, G., N. Katzir, and M.J. Havey. 2004. Organization of repetitive DNAs and the genomic regions carrying ribosomal RNA, *cob*, and *atp9* genes in the cucurbit mitochondrial genomes. *Theor. Appl. Genet.* 108:982-992.
53. Park, Y.H., and M.J. Havey. 2004. Cucumber germplasm resistant to *Cladosporium cucumerinum*. *HortScience* 39:163-164.
54. Havey, M.J., C.R. Galmarini, A.F. Gökçe, and C. Henson. 2004. QTL affecting soluble carbohydrate concentrations in stored onion bulbs and their association with flavor and health-enhancing attributes. *Genome* 47:463-468.

55. Park, Y.H., N. Katzir, Y. Brotman, J.J. King, F. Bertrand, and M.J. Havey. 2004. Comparative mapping of ZYMV resistances in cucumber (*Cucumis sativus* L.) and melon (*Cucumis melo* L.). *Theor. Appl. Genet.* 109:707-712.
56. Havey, M.J., Y.H. Park, and G. Bartoszewski. 2004. The *Psm* locus controls paternal sorting of the cucumber mitochondrial genome. *J. Hered.* 95:492-497.
57. Havey, M.J. 2005. Sequence analyses of probes revealing mapped RFLPs in cucumber. *HortScience* 40:323-324.
58. Zewdie, Y., M.J. Havey, J.P. Prince, and M.M. Jenderek. 2005. The first genetic linkages among expressed regions of the garlic (*Allium sativum* L.) genome. *J. Amer. Soc. Hort. Sci.* 130:569-574.
59. Bohanec, B., M. Jakše, and P. Šesek, and M.J. Havey. 2005. Genetic characterization of edible bulbous leek-like accessions and their genetic relationships with morphologically similar forms of *Allium* species. *HortScience* 40:1690-1694.
60. Martin, W., J. McCallum, M. Shigyo, J. Jakse, J.C. Kuhl, N. Yamane, K.C. Sink, C.D. Town, and M.J. Havey. 2005. Genetic mapping of expressed sequences in onion and *in silico* comparisons show scant colinearity with rice. *Mol. Genet. Genomics* 274:197-204.
61. Jakše, J., W. Martin, J. McCallum, and M.J. Havey. 2005. Single nucleotide polymorphisms, indels, and simple sequence repeats for onion cultivar identification. *J. Amer. Soc. Hort. Sci.* 130:912-917.
62. Kuhl, J.C., M.J. Havey, F. Cheung, Q. Yuan, J. Leebens-Mack, C.D. Town, and K.C. Sink. 2005. Comparative genomic analyses of the genus *Asparagus*. *Genome* 48:1052-1060.
63. McCallum, J., A. Clarke, M. Pither-Joyce, M. Shaw, R. Butler, D. Brash, J. Scheffer, I. Sims, S. van Heusden, M. Shigyo, and M.J. Havey. 2006. Genetic mapping of a major gene affecting onion bulb fructan content. *Theor. Appl. Genet.* 112:958-967.
64. Eid, S., Y. Abou-Jawdah, S. El-Mohtar, H. Sobh, and M.J. Havey. 2006. Tolerance in cucumber to *cucurbit yellow stunting disorder virus*. *Plant Dis.* 90:645-649.
65. Gökçe, A.F., and M.J. Havey. 2006. Selection at the *Ms* locus in open-pollinated onion populations possessing S cytoplasm or mixtures of N and S cytoplasm. *Genet. Res. Crop Evol.* 53:1495-1499.
66. Jakše, J., A. Telgmann, C. Jung, A. Khar, S. Melgar, F. Cheung, C.D. Town, and M.J. Havey. 2006. Comparative sequence and genetic analyses of asparagus BACs reveal no microsynteny with onion or rice. *Theor. Appl. Genet.* 114:31-39.
67. Bartoszewski, G., M.J. Havey, A. Ziółkowska, and S. Malepszy. 2007. The MSC phenotype of cucumber (*Cucumis sativus* L.) - a method for production of plant mitochondrial mutants. *J. Appl. Genet.* 48:1-9.
68. McCallum, J., M. Pither-Joyce, M. Shaw, F. Kenel, S. Davis, R. Butler, J. Scheffer, J. Jakse, and M.J. Havey. 2007. Genetic mapping of sulfur assimilation genes reveals a QTL for onion bulb pungency. *Theor. Appl. Genet.* 114:815-822.
69. Havey, M.J., and B. Bohanec. 2007. Onion inbred line 'B8667 A&B' and synthetic populations 'Sapporo-Ki-1 A&B' and 'Onion Haploid-1'. *HortScience* 42:1731-1732.
70. Khar, A., J. Jakše, and M.J. Havey. 2008. Segregations for onion-bulb colors reveal that red is controlled by at least three loci. *J. Amer. Soc. Hort. Sci.* 133:42-47.
71. Meyer, J.D., W. Deleu, J. Garcia-Mas, and M.J. Havey. 2008. Construction of a fosmid library of cucumber (*Cucumis sativus*) and comparative analyses of the eIF4E and eIF(iso)4E regions from cucumber and melon (*Cucumis melo*). *Mol. Genet. Genomics* 279:473-480.
72. Al-Faifi, S., J. Meyer, J. Garcia-Mas, A.J. Monforte, and M.J. Havey. 2008. Exploiting synteny in *Cucumis* for mapping of the cucumber *Psm* locus. *Theor. Appl. Genet.* 117:523-529.

73. Jakše, J., J.D.F. Meyer, G. Suzuki, J. McCallum, F. Cheung, C.D. Town, and M.J. Havey. 2008. Pilot sequencing of onion genomic DNA reveals fragmented transposable elements, low gene densities, and significant gene enrichment after methyl filtration. *Mol. Genet. Genomics* 280:287-292.
74. McCallum, J., S. Thomson, M. Pither-Joyce, F. Kenel, A. Clarke, and M.J. Havey. 2008. Genetic diversity analysis and single-nucleotide-polymorphism marker development in cultivated bulb onion based on expressed sequence tag-simple sequence repeat markers. *J. Amer. Soc. Hort. Sci.* 133:810-818.
75. Abou-Jawdah, Y., S.G. Eid, H.S. Atamian, Y. and M.J. Havey. 2008. Assessing the movement of *Cucurbit yellow stunting disorder virus* in susceptible and tolerant cucumber germplasms using serological and nucleic acid based methods. *J. Phytopath.* 156:438-445.
76. Bartoszewski, G., P. Gawronski, M. Szklarczyk, H. Verbakel, and M.J. Havey. 2009. A one-megabase physical map of the cucumber mitochondrial DNA reveals low density and occasional clustering of genes. *Genome* 52:299-307.
77. Mahajan, V., J. Jakse, M.J. Havey, and K.E. Lawande. 2009. Genetic fingerprinting of Indian onion cultivars using SSR markers. *Indian J. Hort.* 66:62-68.
78. Raines, S., C. Hensen, and M.J. Havey. 2009. Genetic analyses of soluble carbohydrate concentrations in onion bulbs. *J. Amer. Soc. Hort. Sci.* 134:618-623.
79. Ling, K. S., K.R. Harris, J.D.F. Meyer, A. Levi, N. Guner, T.C. Wehner, A. Bendahmane, and M.J. Havey. 2009. Non-synonymous single nucleotide polymorphisms in the watermelon eIF4 gene are closely associated with resistance to Zucchini yellow mosaic virus. *Theor. Appl. Genet.* 120:191-200.
80. Melgar, S., and M.J. Havey. 2010. The dominant *Ms* allele in onion shows reduced penetrance. *J. Amer. Soc. Hort. Sci.* 135:49-52.
81. Jakše, M., P. Hirschegger, B. Bohanec, and M.J. Havey. 2010. Evaluation of gynogenic responsiveness of selfed doubled haploid onion lines, chromosome doubling procedure via somatic regeneration, and male fertility. *J. Amer. Soc. Hort. Sci.* 135:67-73.
82. Kielkowska, A., and M.J. Havey. 2011. In vitro flowering and pollen viability of cucumber. *Plant Cell Tissue Organ Culture* 109:73-82.
83. Howard, N., N. De Leon, M.J. Havey, and W. Martin. 2012. Diallel analysis of floral longevity in *Impatiens walleriana*. *J. Amer. Soc. Hort. Sci.* 137:47-50.
84. Calderon, C., B. Yandell, and M.J. Havey. 2012. Genetic mapping of paternal sorting of mitochondria in cucumber. *Theor. Appl. Genet.* 125:11-18.
85. Yang, L., D. Koo, Y. Li, X. Zhang, F. Luan, M.J. Havey, J. Jiang, and Y. Weng. 2012. Chromosome rearrangements during domestication of cucumber as revealed from high-density genetic mapping and draft genome assembly. *Plant Journal* 71:895-906.
86. McManus, M., S. Joshi, B. Searle, M. Pither-Joyce, M. Shaw, S. Leung, N. Albert, M. Shigyo, J. Jakse, M.J. Havey, and J. McCallum. 2012. Genotypic variation in sulfur assimilation and metabolism of onion (*Allium cepa* L.) III. Characterization of sulfite reductase. *Phytochemistry* 83:34-42.
87. 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.
88. 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.
89. Von Kohn, C., A. Kielkowska, 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.
90. 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. *Mol. Breeding* 34:75-85.

91. 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.
92. 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 Entomol.* 39:237-260.
93. 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.
94. Menda, N., S.R. Strickler, J.D. Edwards, A. Bombarely, D.M. Dunham, G.B. Martin, L. Mejia , S.F. Hutton, M.J. Havey, D.P. Maxwell, and L.A. Mueller. 2014. Analysis of wild species introgressions in tomato inbreds uncovers ancestral origins. *BMC Plant Biology* 4:287.
95. 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.
96. Shen, J., R. Dirks, and M.J. Havey. 2015. Diallel crossing among doubled haploids of cucumber reveals significant reciprocal-cross differences. *J. Amer. Soc. Hort. Sci.* 140:178–182.
97. Mróz, T., M.J. Havey, and G. Bartoszewski. 2015. Cucumber possesses a single terminal alternative oxidase gene that is upregulated by stress and in the MSC mitochondrial mutants. *Plant Mol. Biol. Rep.* (accepted April 2015).
98. Del Valle-Echevarria, A., A. Kielkowska, G. Bartoszewski, and M.J. Havey. 2015. The mosaic (MSC) mutants of cucumber: a method to produce knock-downs of mitochondrial transcripts. *G3 (Genes, Genomes, Genetics)* (accepted April 2015).
99. Romanov, D., M. Divashuk, M.J. Havey, and L. Khrustaleva. 2015. Tyramide-FISH mapping of single genes for development of an integrated recombination and cytogenetic map of chromosome 5 of *Allium cepa* L. *Genome* (accepted April 2015).

### **Germplasm and Inbred Releases**

1. Havey, M.J., J.A.G. Irwin, and D.P. Maxwell. 1989. Registration of WAPRS-4 alfalfa germplasm resistant to *Phytophthora* root rot. *Crop Sci.* 29:833.
2. Havey, M.J. 1999. Release of onion inbred lines B1717A&B, B1828A&B, and B2354A&B. USDA, Beltsville MD, and University of Wisconsin Agricultural Experiment Station.
3. Havey, M.J. 1999. Release of galanthum-cytoplasmic male-sterile onion populations. USDA, Beltsville MD, and University of Wisconsin Agricultural Experiment Station.
4. Havey, M.J. 2007. Release of red onion inbred line B8667A&B. USDA, Beltsville MD.
5. Havey, M.J., and B. Bohanec. 2007. Release of onion synthetic population OH-1 with high frequency of gynogenic haploid production. USDA Beltsville MD and University of Ljubljana Slovenia.
6. Havey, M.J. 2007. Release of onion synthetic population SKI-1 A&B. USDA Beltsville MD.