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Oregon State University

S.A. MEHLENBACHER

Hazelnut Cultivars and Pollinizers Released

Four hazelnut pollinizers 1990 (VR 4-31, VR 11-27, VR 20-11 & VR 23-18)

“Willamette” hazelnut 1990

“Lewis” hazelnut 1997

“Clark” hazelnut 1999

“Gamma” hazelnut pollinizer 2002

“Delta” hazelnut pollinizer 2002

“Epsilon” hazelnut pollinizer 2002

“Zeta” hazelnut pollinizer 2002

“Santiam” hazelnut 2005

“Sacajawea” hazelnut 2006

“Yamhill” hazelnut 2008

“Jefferson” hazelnut 2009

“Eta” hazelnut pollinizer 2009

“Theta” hazelnut pollinizer 2009

“Tonda Pacifica” hazelnut 2010

“Red Dragon” ornamental hazelnut (redleaf contorted) (Plant Patent Applied For)

“Rosita” ornamental hazelnut (redleaf)

Published Research

[DNA Markers Linked to Eastern Filbert Blight Resistance from a Hazelnut Selection from the Republic of Georgia](#)

[Identification and Mapping of DNA Markers Linked to Eastern Filbert Blight Resistance from OSU 408.040 Hazelnut](#)

[Susceptibility of Hazelnut Cultivars to Filbertworm, *Cydia latiferreana*](#)

[Nuclear and chloroplast microsatellite markers to assess genetic diversity and evolution in hazelnut species, hybrids and cultivars](#)

Mehlenbacher, S.A., R.N. Brown, J.W. Davis., H. Chen, N.V. Bassil, D.C. Smith, and T.L. Kubisiak. 2004. RAPD markers linked to eastern filbert blight resistance in *Corylus avellana*. *Theor. Appl. Genet.* 108:651-656. (Published online: 21 October 2003)

Mehlenbacher, S.A. and M.M. Thompson. 2004. Inheritance of style color in hazelnut. *HortScience* 39:475-476.

Mehlenbacher, S.A. and D.C. Smith. 2004. Hazelnut pollenizers ‘Gamma’, ‘Delta’, ‘Epsilon’ and ‘Zeta’. *HortSci.* 39:1498-1499.

Chen, H., S.A. Mehlenbacher and D.C. Smith. 2005. AFLP markers linked to eastern filbert blight resistance from OSU 408.040 hazelnut. *J. Amer. Soc. Hort. Sci.* 130:412-417.

Bocacci, P., A. Akkac, N.V. Bassil, S.A. Mehlenbacher and R. Botta. 2005. Characterization and evaluation of microsatellite loci in European hazelnut (*Corylus avellana* L.) and their transferability to other *Corylus* species. *Molec. Ecol. Notes* 5:934-937.

Bassil, N.V., R. Botta and S. Mehlenbacher. 2005. Microsatellite markers in hazelnut: Isolation, characterization and cross-species amplification. *J. Amer. Soc. Hort. Sci.* 130:543-549.

Erdogan, V., S.A. Mehlenbacher, A.I. Köksal and H. Kurt. 2005. Incompatibility alleles expressed in pollen of Turkish hazelnut cultivars. *Turkish Journal of Biology* 29(2):111-116.

- Mehlenbacher, S.A. 2005. The hazelnut situation in Oregon. *Acta Horticulturae* 686:665-667.
- Mehlenbacher, S.A., R.N. Brown, E.R. Nouhra, N.V. Bassil and T.L. Kubisiak. 2005. A linkage map for hazelnut. *Acta Horticulturae* 686:135-140.
- McCluskey, R.L., A.N. Azarenko, S.A. Mehlenbacher, and D.C. Smith. 2005. Advanced selection and cultivar performance of hazelnut trials planted in 1994 and 1998 at Oregon State University. *Acta Horticulturae* 686:71-78.
- Bassil, N.V., R. Botta, and S.A. Mehlenbacher. 2005. Additional microsatellite markers of the European hazelnut. *Acta Horticulturae* 686:105-110.
- Gökirmak, T., S.A. Mehlenbacher and N.V. Bassil. 2005. Investigation of genetic diversity among European hazelnut (*Corylus avellana* L.) cultivars using SSR markers. *Acta Horticulturae* 686:141-147.
- Erdogan, V., S.A. Mehlenbacher, A.I. Koksak, and H. Kurt. 2005. Preliminary results of incompatibility alleles expressed in pollen from some Turkish hazelnut cultivars. *Acta Horticulturae* 686:157-162.
- Mehlenbacher, S.A. 2005. Release of the first commercially acceptable EFB resistant hazelnut variety. *Ann. Rep. Nut Growers Soc. OR, WA & BC* 90:33-36.
- Mehlenbacher, S.A. 2005. Turkey trip. *Ann. Rep. Nut Growers Soc. OR, WA & BC* 90:36-40.
- Yezhov, V.N., A.V. Smykov, V.K. Smykov, S.Y. Khokhlov, D.E. Zaurov, S.A. Mehlenbacher, T.J. Molnar, J.C. Goffreda and C.R. Funk. 2005. Genetic resources of temperate and subtropical fruit and nut species at the Nikita Botanical Gardens. *HortScience* 40:5-9.
- Mehlenbacher, S.A. 2006. Evaluation and planting of varieties released from the OSU breeding program. *Ann. Rep. Nut Growers Soc. OR, WA & BC* 91:50-61.
- Kubisiak. 2006. A genetic linkage map for hazelnut (*Corylus avellana* L.) based on RAPD and SSR markers. *Genome* 49:122-133.
- Lunde, C.F., S.A. Mehlenbacher and D.C. Smith. 2006. Segregation for resistance to eastern filbert blight in progeny of 'Zimmerman' hazelnut. *J. Amer. Soc. Hort. Sci.* 131:731-737.
- Mehlenbacher, S.A. and D.C. Smith. 2006. Self-compatible seedlings of the cutleaf hazelnut. *HortScience* 41:482-483.
- Mehlenbacher, S.A. 2007. Hazelnut breeding program - 2007 update. *Ann. Rep. Nut Growers Soc. OR, WA & BC* 92:75-82.
- Molnar, T.J., D.E. Zaurov, J.C. Goffreda and S.A. Mehlenbacher. 2007. Survey of hazelnut germplasm from Russia and Crimea for response to eastern filbert blight. *HortScience* 42:51-56.
- Mehlenbacher, S.A., A. N. Azarenko, D. C. Smith, and R. L. McCluskey. 2007. 'Santiam' hazelnut. *HortScience* 42:715-717.

- Chen, H., S.A. Mehlenbacher and D.C. Smith. 2007. Hazelnut accessions provide new sources of resistance to eastern filbert blight. *HortScience* 42:466-469.
- Mehlenbacher, S.A., D.C. Smith and R.L. McCluskey. 2008. 'Sacajawea' hazelnut. *HortScience* 43:255-257.
- Mehlenbacher, S.A. 2008. Hazelnut breeding program - 2008 update. *Ann. Rep. Nut Growers Soc. OR, WA & BC* 93:57-62.
- Mehlenbacher, S.A. 2008. Hazelnut breeding - an update from Oregon. *Nucis Newsletter*. Spring 2008.
- Sathuvalli, V. and S. A. Mehlenbacher. 2008. DNA markers linked to novel sources of resistance to eastern filbert blight. *Ann. Rep. Nut Growers Soc. OR, WA & BC* 93:63-64.
- Gurcan, K. and S. A. Mehlenbacher. 2008. Development and use of microsatellite markers in hazelnut. *Ann. Rep. Nut Growers Soc. OR, WA & BC* 93:65-67.
- Mehlenbacher, S.A. 2008. Betulaceae—*Corylus avellana*—hazelnut. p. 161–172. In: Janick, J. and R.E. Paull (eds.). *The encyclopedia of fruit and nuts*. CAB International, Cambridge University Press, Cambridge, UK.
- Mehlenbacher, S.A. and D.C. Smith. 2009. "Red Dragon" ornamental hazelnut. *HortScience* 44:843–844.
- Mehlenbacher, S.A., D.C. Smith and R. McCluskey. 2009. "Yamhill" hazelnut. *HortScience* 44:845–847.
- Gökirmak, T., S.A. Mehlenbacher and N.V. Bassil. 2009. Characterization of European hazelnut (*Corylus avellana*) cultivars using SSR markers. *Genetic Resources and Crop Evolution* 56:147–172. DOI 10.1007/s10722-008-9352-8
- Sathuvalli, V.R., H.L. Chen, S.A. Mehlenbacher and D.C. Smith. 2010. DNA markers linked to eastern filbert blight resistance in "Ratoli" hazelnut. *Tree Genetics and Genomes* DOI: 10.1007/s11295-010-0335-5.
- Sathuvalli, V. S.A. Mehlenbacher and D.C. Smith. 2010. Response of hazelnut accessions to greenhouse inoculation with *Anisogramma anomala*. *HortScience* 45:1116-1119.
- Gürcan, K. and S.A. Mehlenbacher. 2010. Transferability of microsatellite markers in the Betulaceae. *J. Amer. Soc. Hort. Sci.* 135:159-173.
- Gürcan, K. and S.A. Mehlenbacher. 2010. Development of microsatellite marker loci for European hazelnut (*Corylus avellana* L.) from ISSR fragments. *Molecular Breeding* 26:551–559. DOI 10.1007/s11032-010-9464-7
- Gürcan, K., S.A. Mehlenbacher, R. Botta and P. Boccacci. 2010. Development, characterization, segregation, and mapping of microsatellite markers for European hazelnut (*Corylus avellana* L.) from enriched genomic libraries and usefulness in genetic diversity studies. *Tree Genetics and Genomes* 6:513-531. DOI: 10.1007/s11295-010-0269-y
- Gürcan, K., S.A. Mehlenbacher and V. Erdogan. 2010. Genetic diversity in hazelnut cultivars from Black Sea countries assessed using SSR markers. *Plant Breeding* 129:422-434. DOI: 10.1111/j.1439-0523.2009.01753.x

Mehlenbacher, S.A., D.C. Smith and R.L. McCluskey. 2011. "Jefferson" hazelnut. HortScience (submitted).

Mehlenbacher, S.A., D.C. Smith, R.L. McCluskey and M.M. Thompson. 2011. "Tonda Pacifica" hazelnut. HortScience (submitted).

Sathuvalli, V.R. 2011. Eastern filbert blight in hazelnut (*Corylus avellana*): Identification of new resistance sources and high resolution genetic and physical mapping of a resistance gene. PhD dissertation. Oregon State University, Corvallis, OR.

Sathuvalli, V.R. and S.A. Mehlenbacher. 2011. Characterization of American hazelnut (*Corylus americana*) accessions and *Corylus americana* x *Corylus avellana* hybrids using microsatellite markers. Genetic Resources and Crop Evolution DOI 10.1007/s10722-011-9743-0.

Chambers, U., V.M. Walton, and S.A. Mehlenbacher. 2011. Susceptibility of hazelnut cultivars to filbertworm, *Cydia latiferreana*. HortScience (in press).

Sathuvalli, V. S.A. Mehlenbacher and D.C. Smith. 2011. DNA markers linked to eastern filbert blight resistance from a hazelnut selection from the Republic of Georgia. J. Amer. Soc. Hort. Sci. 136: 350–357.

Mehlenbacher, S.A., R.N. Brown, E.R. Nouhra, T. Gokirmak, N.V. Bassil and T.L.