

Paul Read, Professor of Horticulture/Viticulture (abbreviated C.V.)



Dr. Paul Read joined the Department of Horticulture at the University of Nebraska as Head in January 1987. He resumed the role of professor of Horticulture and Viticulture in July 1997. He received his BS and MS degrees from Cornell University sandwiched around 3½ years as an Extension Agent in the New York Extension system. Dr. Read received his Ph.D. from the University of Delaware in 1967 and progressed from Assistant to full Professor at the University of Minnesota prior to coming to Nebraska.

His current research thrusts are in tissue culture for horticulture crop improvement (Hatch Project emphasizing woody ornamentals and fruit crops) and on vineyard management issues in support of Nebraska's developing grape and wine industry. He has served horticulture in a variety of leadership roles, including President of the American Society for Horticultural Science (ASHS), president of the Plant Growth Regulator Society of America and president of the American Chestnut Foundation. He was recipient of the ASHS Outstanding Graduate Educator Award and is a Fellow of ASHS. Dr. Read has been a visiting scientist at the University of Florida, the University of Nottingham (England), the Australian CSIRO, and a visiting professor at the University of Tasmania. Dr. Read has been active in several international organizations, has led Study Abroad trips to Siberia and Australia, and has consulted in India, China, Thailand, New Zealand, Hungary, Moldova, Brazil and Australia. He is also the Editor-in-Chief of the International Journal of Fruit Science.

Honors/Service

Fellow, American Society for Horticulture Science (ASHS); ASHS Past President and Chair of Board;
ASHS Outstanding Graduate Educator Award
Darrell Nelson Outstanding Graduate Student Advisor Award

Courses Currently Taught

HORT 352, Physiology of Horticultural Crops (co-taught with Professor Ellen Pappozzi), 2 cr., lectures
HORT 353, Vegetable Crop Production Lab, 2 cr., laboratory
HORT 354, Fruit Production Lab, 2 cr., laboratory
HORT/NUTR/HRTM 471/871, Vines, Wines and You, 3 cr., lecture and laboratory (3 sections)

Mentoring

Current students: one M.S., one undergraduate Honors
Student advisees completing degrees since 2005: 6 PhD, 7 M.S.
Visiting Scientists since 2005: Five.
Advisor to Agronomy and Horticulture Graduate Student Association (Current, 7th year)

Selected Publications of Paul E. Read (2005-2019)

Smart, R., E. Barriault, P. E. Read and D. Volenberg. 2019. Trunk diseases and winter injury in NE America, How are they related? Wine Business Monthly, November, pp. 76-83.

Read, Paul E. and Benjamin A. Loseke. 2019. Hybrid trunk disease evaluation: a serendipitous opportunity. *Phytopathologia Mediterranea* 58 (No. 2):418-419.

Read, P. E., B. A. Loseke and S. J. Gamet. Hybrid trunk disease evaluation: a serendipitous opportunity. 11th Int. Conf. on Trunk Diseases, Penticton, BC Canada (Oral presentation).

Read, P. E., B. A. Loseke and S. J. Gamet. 2019. Chilling requirements for 'Edelweiss', 'Frontenac' and 'Norton' grapevines. Amer. Soc. Hort. Sci. Annual Conf., Las Vegas (Poster)

Read, P. E., B. A. Loseke and S. J. Gamet. 2019. High tunnel table grapes: an alternative to field production in Nebraska? Amer. Soc. Hort. Sci. Annual Conf., Las Vegas (Poster)

Loseke, B. A., P. E. Read and S. J. Gamet. 2019. Impact of alleyway and in-row groundcovers on 'Edelweiss' grapevine growth and fruit production. Int. J. Fruit Science. (in review).

Gu, S., P. E. Read and B. A. Loseke. 2019. Rootstock and mounding affect growth and cold hardiness of young 'Gewurztraminer' (*Vitis vinifera*) vines. Int. J. Fruit Science (in press)

Read, P. E., B. A. Loseke and S. J. Gamet. 2019. History of viticulture and wine making in Midwest USA. Acta Horticulturae (in press).

Read, P. E. and B. A. Loseke. 2019. Teaching beverage crop science: Vines, Wines and You, a case study. Acta Horticulturae (in press).

Read, P. E., S. J. Gamet and B. A. Loseke. 2019. Relating harvest timing to growing degree day accumulation. Acta Horticulturae (in press).

Zhao, H., X. Xie, C. Xu, P. E. Read, W. Li, S. J. Gamet and B. A. Loseke. 2019. Biofortification with selenium and lithium improves nutraceutical properties of major winery grapes in the Midwestern United States. J. Agricultural and Food Chemistry (in review).

Read, P. and B. Loseke. 2018. Creativity in micropropagation: An overview of the AEMP/PEMP story and thoughts on what the future will bring? Acta Horticulturae 1224:7-12.

Bavougian, CM, Read, PE. (2018) Mulch and groundcover effects on soil temperature and moisture, surface reflectance, grapevine water potential, and vineyard weed management. Peer J6:e5082
<https://doi.org/10.7717/peerj.5082>

Morrison, Donna. M., Erin E. Blankenship, Paul E. Read and Ellen T. Pappozzi. 2018. Stolon development and cultural practices of winter-grown strawberries. Intl. J. Fruit Science 18:138-152.

Pappozzi, E. T., G. E. Meyer, V. Schlegel, E. E. Blankenship, S. A. Adams, M. E. Conley, B. Loseke and P. E. Read. 2018. Strawberry cultivars vary in productivity, sugars and phytonutrient content when grown in a greenhouse during winter. Scientia Horticulturae 227:1-9.

Loseke, Benjamin A. 2015. Preventing spring freeze injury on grapevines using multiple applications of Amigo oil and naphthaleneacetic acid. Scientia Horticulturae 193:294-300.

Zempleni, Janos, E. L. Cordonier, R. Adjam, D. C. Teixeira, S. Onur, R. Zbasnik, P. E. Read, F. Doring and V. L. Schlegel. 2015. Resveratrol compounds inhibit human holocarboxylase synthase and cause a lean phenotype in *Drosophila melanogaster*. J. Nutritional Biochemistry 26:1379-1384.

Read, Paul E. 2015. Grape and Wine Production from Diverse Regions and Sub-Tropical/Tropical Grape and Wine Production. (P. Read, Ed) Compilation of 40 contributions to the International Horticultural Congress Symposium 10, Brisbane Australia, August, 2014. Acta Horticulturae (in press) – Note: all manuscripts were peer reviewed.

Read, P. E. and S. J. Gamet. 2015. Sixteen years of cold-hardy cultivar evaluation. In: Grape and Wine Production from Diverse Regions and Sub-Tropical/Tropical Grape and Wine Production, (P. Read Ed.). Acta Horticulturae (in press).

Read, P. E. and S. J. Gamet. 2015. Challenges from off-target herbicide incidents. In: Grape and Wine Production from Diverse Regions and Sub-tropical/Tropical Grape and Wine Production, (P. Read, Ed.). Acta Horticulturae (in press).

Read, Paul E. 2015. Propagation by Root Cuttings. In: Plant Propagation Concepts and Laboratory Exercises, C. A. Beyl and R. N. Trigiano, eds, Chapter 23, pp. 283-186.

Read, P. E. and J. E. Preece. 2014. Cloning: Plants – Micropropagation/Tissue Culture. In: Neal Van Alfen, editor-in-chief. Encyclopedia of Agriculture and Food Systems, Vol. 2, San Diego: Elsevier; 2014 pp.317-336. (Special Invited Chapter)

Read, Paul E. and Christina M. Bavougian. 2014. Woody Ornamentals. In: G. R. Dixon, D. E. Aldous, eds, Horticulture: Plants for People and Places, Volume 2, pp. 619-644. (Invited Chapter)

Loseke, B. A., P.E. Read and I. M. Qrunfleh. 2014. Delay of bud break on 'Edelweiss' grapevine with multiple applications of Amigo oil and NAA. Acta Horticulturae 1042:51-56.

Qrunfleh, Issam M. and Paul E. Read. 2013. Delaying bud break in 'Edelweiss' grapevines to avoid spring frost injury by NAA and vegetable oil applications. Adv. Hort. Sci. 27:18-24.

Bavougian, C.M., P.E. Read, V.L. Schlegel and K.J. Hanford. 2013. Canopy light effects in multiple training systems on yield, soluble solids, acidity, phenol and flavonoid concentration of 'Frontenac' grapes. HortTechnology 23:1-7.

Read, P.E., J.A. Schild and S.J. Gamet. 2012. Ten years of western Nebraska grape cultivar trials. HortScience 47(9) (supplement) for 2012 ASHS Annual Conference, Miami Fla.

Paparozi, E.T., G.M. Meyer, S.A. Adams, M.E. Conley, B. Loseke and P.E. Read. 2012. Greenhouse production of strawberries during the winter. HortScience 47(9) (supplement) for 2012 ASHS Annual Conference, Miami, Fla.

Read, P.E. and C.M. Bavougian. 2012. In Vitro Rejuvenation of Woody Species. In: Protocols for Micropropagation of Selected Economically-Important Horticulture Plants, M. Lambardi, A. E. Ozudogru, M. Jain (Eds.) pp. 383-396. Springer-Humana Press. (Book Chapter)

Bavougian, C.M., P.E. Read and E. Walter-Shea. 2012. Training system effects on sunlight penetration, canopy structure, yield and fruit characteristics of Frontenac grapevine (*Vitis* spp.) Intl. J. Fruit Sci. 12:402-409.

Read, P.E. and I.M. Qrunfleh. 2011. Use of NAA and vegetable oil to delay bud break in *Vitis* spp. HortScience 46(9) (supplement) for 2011 ASHS Annual Conference, Waikoloa, HI.

Paparozi, E.T., G. M. Meyer, M.E. Conley, S.A. Adams, E.E. Blankenship, P.E. Red and V.L. Schlegel. HortScience 46(9) (supplement) for 2011 ASHS Annual Conference

Reusse, R.M., J.E. Stratton, D.A. Smith, P.E. Read, S.L. Cuppett, and A.M. Parkhurst. 2010. Malolactic Fermentation as a Technique for the Deacidification of Hard Apple Cider. J. Food Sci. 75(1):C74-C78. doi: 10.1111/j.1750-3841.2009.01427.x.

Ikten, H., and P.E. Read. 2010. The effects of growth regulators on micropropagation of grapevine (*Vitis* spp.) 'Marechal Foch' and 'Lacrosse.' Int. J. Fruit Sci. 10(4):1-12.

- Reusse, R., J. Stratton, D. Smith, P.E. Read, S. Cuppett and A. Parkhurst. 2009. Comparing conventional and modified methods for initiating malolactic fermentations in apple cider. *Amer. J. Enology and Viticulture* 69 (3):406A.
- Sidiqi, J. S.N. Wegulu, P.E. Read and P.S. Baenziger. 2009. Frequency of resistance to stem rust race TPMK in Afghan wheat cultivars. *Can. J. Plant Pathol.* 31:1-4.
- Yang, G., Z. Lu, T.J. Asante, and P.E. Read. 2008. In vitro callus induction and shoot initiation of American chestnut (*Castanea dentata*). *J. Jilin Agricultural University* 30:466-471.
- Read, P. E. , Editor in Chief. 2008. Proceedings of the International Symposium on Plant Biotechnology: From Bench to Commercialization Symposium 10 of the 27th International Horticultural Congress). *Acta Horticulturae* 764:331 pages.
- Read, P. E. and K.-Y. Paek. 2008. Plant tissue culture: Past, present, and prospects for the future. *In: Proc. International Symposium on Plant Biotechnology: From bench to commercialization.* *Acta Hort.* 764:41-48.
- Read, P. E. 2008. Tissue culture propagation: where we are, where we're going. *Combined Proc. International Plant Propagators Soc.* 57:371-379.
- Read, P.E., M.N. Nas, and V.I. Miller. 2007. Acclimatization and establishment of micropropagated plants of hazelnut (*Corylus spp.*) hybrids. *Acta Hort.* 748:199-202.
- Bigger, B. B. and P.E. Read. 2007. Multiplication and Acclimatization of 'Norton' grapevine (*Vitis aestivalis*). *Acta Hort.* 748:202-202.
- Read, P., S. J. Gu, S. J. Gamet and J. A. Schild. 2006. Testing of varieties and selections under challenging climatic conditions. *Acta Horticulturae* 655:65-72.
- Nas, M. N., K. M. Eskridge and P. E. Read. 2005. Experimental designs suitable for testing many factors with a limited number of explants in tissue culture. *Plant Cell, Tissue and Organ Culture* 81:213-220.
- Preece, J.E. and P.E. Read. 2005. *The Biology of Horticulture, An Introductory Textbook*, 2nd Edition. 514 pp. John Wiley and Sons, Inc., New York.