

DARIUSZ P. MALINOWSKI

Curriculum Vitae

Professional Memberships

American Forage and Grassland Council (AFGC) – Member
American Society of Agronomy (ASA) – Member
Cactus and Succulent Society of America (CSSA) – Member
Crop Society of America (CSSA) – Member
International Palm Society (IPS) – Member
Texas Pasture and Forage Work Group – Steering Committee Member
SERA-IEG-8 Fescue Endophyte Research and Extension - Member
Southwestern Wheat Research and Education Consortium – Steering Committee Member

Professional Interests

- 1) Physiology and ecology of associations between *Neotyphodium* fungal endophytes and cool-season grasses;
- 2) Management of forage crops for drought-prone environments;
- 3) Mechanisms of summer dormancy in cool-season perennial grasses;
- 4) Improvement of summer-dormant cool-season grasses for forage production;
- 5) Improvement of annual legumes as components of mixed stands with summer-dormant cool-season grasses;
- 6) Improvement of forage wheat quality characteristics;
- 7) Development of *Hibiscus* and *Brugmansia* cultivars with unique flower and foliage characteristics.

Editorial Boards

2009–present	Crop Science	Associate Editor
2005–present	Forage and Grazinglands	Associate Editor

Consulting Services

2009–2012 Member of Technical Advisory Committee to USDA-NRCS Plant Materials Center, Knox City, TX.

2004 – 2009 Japanese Research Project on *Neotyphodium* spp. Grass Endophytes. Coordinator: Dr. Suguru Saiga, Iwate University, Morioka, Japan.

Awards

- 2006 Merit Award. American Forage and Grassland Council.
Research on summer-dormant cool-season grasses for Texas.
- 1998 Outstanding Young Scientist Award. American Forage and Grassland Council (4th out of 5 candidates).
Research on *Neotyphodium* sp. endophyte effects on mineral stress tolerance in cool-season grasses.

Publications

Refereed Journal Articles (34)

- (34) Belesky, D.P., Ruckle, J.M., Fedders, J.M., and **D.P. Malinowski**. 2012. Productivity and botanical composition of orchardgrass – white clover swards in a cool-temperate hill land region. *Grassland Science* (accepted).
- (33) **Malinowski, D.P.**, Brown, R.S., and W.E. Pinchak. 2012. ‘Blue Angel’ winter-hardy hibiscus (*Hibiscus x moscheutos* L.). *HortScience* 47:289–290.
- (32) **Malinowski, D.P.**, Brown, R.S., and W.E. Pinchak. 2012. ‘Robert Brown’ winter-hardy hibiscus (*Hibiscus x moscheutos* L.). *HortScience* 47:291–292.
- (31) Butler, T.J. Interrante, S.M., **Malinowski, D.P.**, and K. Widdup. 2011. Annual medic forage and seed evaluations for the semiarid regions of the Great Plains. *Forage and Grazinglands*. Available online <http://www.plantmanagementnetwork.org/sub/fg/research/2011/medic/medic.pdf>.
- (30) Butler, T.J., Stein, J.D., Interrante, S.M, and **D.P. Malinowski**. 2011. Novel approaches to establishing alfalfa–tall fescue pastures in the southern Great Plains. *Forage and Grazinglands*. Available online <http://www.plantmanagementnetwork.org/sub/fg/research/2011/novel/novel.pdf>.
- (29) Emendack, Y.Y., H. Herzog, K.-P. Goetz, and **D.P. Malinowski**. 2011. Mid-season water stress on yield and water use of Millet (*Panicum miliaceum*) and Sorghum [*Sorghum bicolor* (L.) Moench]. *Australian J. Crop Sci.* 5:1486-1492 .
- (28) **Malinowski, D.P.**, Butler, T.J., and D.P. Belesky. 2011. Competitive ability of tall fescue against alfalfa as a function of summer dormancy, endophyte infection, and soil moisture availability. *Crop Sci.* 51:1282-1290.
- (27) **Malinowski, D.P.**, Pitta, D.W., Pinchak, W.E., Min, B., and Y. Emendack. 2011. Effect of N fertilization on diurnal phenolic concentration and foam strength in

- forage of hard red wheat (*Triticum aestivum*) cv. Cutter. *Crop and Pasture Sci.* 62:656-665.
- (26) Pitta, D.W., Pinchak, W.E., Dowd, S.E., Osterstock, J., Gontcharova, V., Youn, E., Dorton, K., Yoon, I., Min, B.R., Fulford, J. D., Wickersham, T.A., and **D.P. Malinowski**. 2010. Rumen bacterial diversity dynamics associated with changing from bermudagrass hay to grazed winter wheat diets. *Microbial Ecol.* 59:511-522. (16 citations)
- (25) **Malinowski, D.P.**, Kigel, J., and W.E. Pinchak. 2009. Water deficit, heat tolerance, and persistence of summer-dormant grasses in the U.S. Southern Plains. *Crop Sci.* 49:2363-2370. (3 citations)
- (24) West, C.P., Norton, M.R., Voltaire, F., Hopkins, A.A, and **D.P. Malinowski**. 2009. First International Workshop on Summer Dormancy in Grasses: Coping with Increasing Aridity and Heat under Climate Change. Summary and Future Directions. *Crop Sci.* 49:2326-2327. (1 citation)
- (23) **Malinowski, D.P.**, Belesky, D.P., Kramp, B.A., Ruckle, J., Kigel, J., and W.E. Pinchak. 2008. A method to differentiate summer-dormant from summer-active tall fescue and orchardgrass accessions at germination stage. *Australian J. Agric. Res.* 59:1092–1102. (4 citations)
- (22) **Malinowski, D.P.**, W.E. Pinchak, B.A. Kramp, H. Zuo, and T.J. Butler. 2007. Supplemental irrigation and fall dormancy effects on alfalfa productivity in a semiarid, subtropical climate with a bimodal precipitation pattern. *Agron. J.* 99:621-629. (4 citations)
- (21) Pinchak, W.E., Min, B.R., **Malinowski, D.P.**, Sij, J.W., Fulford, J.D., and R. Puchala. 2007. The effect of forage allowance and stage of growth on average daily gain, frothy bloat, and rate of ruminal in vitro gas production in steers grazing wheat pasture. *J. Dairy Sci.* 90:412-412. Suppl. 1.
- (20) Sij, J.W., B.L.S. Olson, J.P. Ott, and **D.P. Malinowski**. 2007. Tolerance of three wheatgrass cultivars to sulfosulfuron herbicide. *Texas J. Agr. Nat. Resources* 20:32-41.
- (19) Sij, J.W., W.E. Pinchak, **D.P. Malinowski**, D.L. Robinson, S.J. Bevers, T.A. Baughman, and R.J. Gill. 2007. Yield and economic responses to phosphorus fertilizer placement in dual-use and grain-only wheat production systems. *Agron. J.* 99: 773-778.
- (18) **Malinowski, D.P.**, and D.P. Belesky. 2006. Ecological importance of *Neotyphodium* spp. grass endophytes in agroecosystems. *Grassland Sci.* 52:1-14. (37 citations)

- (17) **Malinowski, D.P.**, Zuo, H., Kramp, B.A., Muir, J.P., and W. E. Pinchak. **2005**. Obligatory summer-dormant cool-season perennial grasses for semiarid environments of the Southern Great Plains. *Agron. J.* 97:147-154. (30 citations)
- (16) Muir, J.P., Reed, R.L., and **D.P. Malinowski**. **2005**. Forage and seed of *Strophostyles* species as affected by location and harvest height. *Native Plant J.* 6 (2):123-130. (6 citations)
- (15) Hopkins, A.A., **Malinowski, D.P.**, Zhang, H., and D.W. Walker. **2004**. Russian wildrye seedlings are sensitive to acidic soil. *Crop Sci.* 44:2187-2192. (2 citations)
- (14) **Malinowski, D.P.**, Zuo, H., Belesky, D.P., and G.A. Alloush. **2004**. Evidence for copper binding by extracellular root exudates of tall fescue but not perennial ryegrass infected with *Neotyphodium* spp. endophytes. *Plant and Soil* 267:1-12. (31 citations)
- (13) **Malinowski, D.P.**, Hopkins, A.A., Pinchak, W.E., Sij, J.W., and R.J. Ansley. **2003**. Productivity and survival of defoliated wheatgrasses in the Rolling Plains of Texas. *Agron. J.* 95:614-626. (25 citations)
- (12) **Malinowski, D.P.**, Pinchak, W.E., Baughman, T.A., and G.D. Antilley. **2001**. Effects of herbicide and liquid nitrogen fertilizer application on the establishment of wheatgrass pastures in the Texas Rolling Plains. *Texas J. Agr. Nat. Resources.* 14:58-67.
- (11) **Malinowski, D.P.**, Alloush, G.A., and D.P. Belesky. **2000**. Leaf endophyte *Neotyphodium coenophialum* modifies mineral uptake in tall fescue. *Plant and Soil* 227:115-126. (71 citations)
- (10) **Malinowski, D.P.**, and D.P. Belesky. **2000**. Adaptations of endophyte-infected cool-season grasses to environmental stresses: Mechanisms of drought and mineral stress tolerance. *Crop Sci.* 40:923-940. (268 citations)
- (9) **Malinowski, D.P.**, and D.P. Belesky. **1999**. *Neotyphodium coenophialum*-endophyte infection affects the ability of tall fescue to use sparingly available phosphorus. *J. Plant Nutr.* 22:835-853. (72 citations)
- (8) **Malinowski, D.P.**, and D.P. Belesky. **1999**. Tall fescue aluminum tolerance is affected by *Neotyphodium coenophialum* endophyte. *J. Plant Nutr.* 22:1335-1349. (30 citations)
- (7) **Malinowski D.P.**, Belesky D.P., and J.M Fedders. **1999**. Endophyte infection may affect the competitive ability of tall fescue grown with red clover. *J. Agron. Crop Sci.* 183:91-101. (27 citations)

- (6) **Malinowski, D.P.**, Brauer, D.K., and D.P. Belesky. **1999**. The endophyte *Neotyphodium coenophialum* affects root morphology of tall fescue grown under phosphorus deficiency. *J. Agron. Crop Sci.* 183:53-60. (62 citations)
- (5) **Malinowski D.P.**, Alloush G.A., and D.P. Belesky. **1998**. Evidence for chemical changes on the root surface of tall fescue in response to infection with the fungal endophyte *Neotyphodium coenophialum*. *Plant and Soil* 205:1-12. (57 citations)
- (4) **Malinowski D.P.**, Belesky D.P., and J.M. Fedders. **1998**. Photosynthesis of white clover (*Trifolium repens* L.) germplasms with contrasting leaf size. *Photosynthetica* 35:419-427. (4 citations)
- (3) **Malinowski D.P.**, Belesky D.P., Hill N.S., Baligar V.C., and J.M. Fedders. **1998**. Influence of phosphorus on the growth and ergot alkaloid content of *Neotyphodium coenophialum*-infected tall fescue (*Festuca arundinacea* Schreb.). *Plant and Soil* 198:53-61. (52 citations)
- (2) **Malinowski D.**, Leuchtman A., Schmidt D., and J. Nösberger J. **1997**. Growth and water status in meadow fescue is affected by *Neotyphodium* and *Phialophora* species endophytes. *Agron. J.* 89:673-678. (35 citations)
- (1) **Malinowski D.**, Leuchtman A., Schmidt D., and J. Nösberger. **1997**. Symbiosis with *Neotyphodium uncinatum* endophyte may increase the competitive ability of meadow fescue. *Agron. J.* 89:833-839. (38 citations)

Books or Chapters Therein (5)

Butler, T.J., and **D.P. Malinowski**. **2012**. Systems management of perennial and annual grasses. *In* C.A. Young, G.E. Aiken, R.L. McCulley, J.R. Strickland and C.L. Schardl. *Epichloae, Endophytes of Cool-Season Grasses: Implications, Utilization and Biology*. The Samuel Roberts Noble Foundation, Ardmore, Oklahoma, USA. ISBN:978-0-9754303-6-1 (in press)

Malinowski, D.P., West, C.P., and D.P. Belesky. **2012**. The role of endophytes in summer-dormant tall fescue. *In* C.A. Young, G.E. Aiken, R.L. McCulley, J.R. Strickland and C.L. Schardl. *Epichloae, Endophytes of Cool-Season Grasses: Implications, Utilization and Biology*. The Samuel Roberts Noble Foundation, Ardmore, Oklahoma, USA. ISBN:978-0-9754303-6-1 (in press)

Malinowski, D.P., Belesky D.P., and G.C. Lewis. **2005**. Abiotic stresses in endophytic grasses. pp. 187-199. *In* C.A. Roberts et al. *Neotyphodium in Cool-Season Grasses*. Blackwell Publishing Professional, Ames, IA, USA. (50 citations)

Belesky D.P., and **D.P. Malinowski**. 2000. Morphological plasticity and chemical adaptations of *Neotyphodium*-infected tall fescue. p. 455-484. In J.F. White, Jr. and C.W. Bacon (eds.) *Microbial Endophytes*. Marcel Dekker, New York. (27 citations)

Malinowski, D.P., Belesky, D.P., Baligar, V.C., and J.M. Fedders. 1997. Involvement of *Neotyphodium coenophialum* in phosphorus uptake by tall fescue (*Festuca arundinacea* Schreb.). p. 183-185. In C.W. Bacon and N.S. Hill (eds.) *Neotyphodium/Grass Interactions*. New York: Plenum Press. (1 citation)

Peer-Reviewed Proceedings (10)

Butler, T.J., **Malinowski, D.P.**, and J. Stein. 2009. Alfalfa – Tall fescue row orientation/compatibility comparisons on establishment and persistence under livestock grazing. Proceedings of the American Forage and Grasslands Council Conference. 21-23 June 2009. Grand Rapids, MI.

Kramp, B.A., **Malinowski, D.P.**, Zuo, H., Pinchak, W.E., and T.J. Butler. 2006. Alfalfa forage production under reduced irrigation in semiarid environments of the Texas Rolling Plains. p. 188-192. In W. Alison et al. (ed) Proceedings of the American Forage and Grasslands Council Conference. 10-14 March 2006. San Antonio, TX.

Malinowski, D.P., Kramp, B.A., Kigel, J., and W.E. Pinchak. 2006. Mechanisms of summer dormancy in cool-season perennial grasses. p. 124-128. In W. Alison et al. (ed) Proceedings of the American Forage and Grasslands Council Conference. 10-14 March 2006. San Antonio, TX.

Malinowski, D.P., Kramp, B.A., Min, B.R., Baker, J., Pinchak, W.E., and J.C. Rudd. 2006. Physiological and morphological traits for selection of dual-use wheat with improved forage production. p. 129-133. In W. Alison et al. (ed) Proceedings of the American Forage and Grasslands Council Conference. 10-14 March 2006. San Antonio, TX.

Malinowski, D.P., Kramp, B.A., Zuo, H., and W.E. Pinchak. 2005. Obligatory summer-dormant cool-season perennial grasses for semiarid environments of the southern Great Plains - Research update. p. 76-80. In K. Cassida (ed) Proceedings of the American Forage and Grasslands Council Conference. 11-15 June 2005. Bloomington, IL.

Malinowski, D.P., and H. Zuo. 2004. Cool-season perennial grasses with obligatory summer dormancy for semi-arid environments of the southern Great Plains. p. 366-370. In K. Cassida (ed) Proceedings of the American Forage and Grasslands Council Conference. 12-16 June 2004. Roanoke, VA.

Malinowski, D.P., Zuo, H., Muir, J.P., Pinchak, W.E., and A.E. Stratton. **2003**. Obligatory summer-dormant, cool-season perennial grasses are drought resistant in semi-arid environments of the Texas Rolling Plains. p. 192- 196. *In* K. Cassida (ed) Proc. American Forage and Grasslands Council Conference. 26-30 April 2003, Lafayette, LA.

Cassida, K.A., **Malinowski, D.**, Pinchak, W.E., Ocumpaugh, W.R., and G.R. Smith. **2000**. Annual legumes as reseeding components of pastures in North Central Texas. p. 115-119. *In* Proceedings of the American Forage and Grassland Council Conference. 16-19 July 2000. Madison, WI.

Malinowski, D.P., Belesky, D.P., Brauer, D.K., and G.A. Alloush. **1998**. Modification of rhizosphere activity of tall fescue by the fungal endophyte *Neotyphodium coenophialum* and consequences for mineral uptake. p.176-180. *In* Proceedings of the 1998 American Forage and Grassland Council Conference. 8-10 March 1998, Indianapolis, IN.

Malinowski, D.P., Belesky, D.P., Baligar, V.C., and J.M. Fedders. **1997**. Involvement of fungal endophyte in phosphorus uptake by tall fescue. p. 261-264. *In* Proceedings of the 1997 American Forage and Grassland Council Conference. 13-15 April 1997. Fort Worth, TX.

Non-Peer, Editor-Reviewed Articles (5)

Robinson, D.L., Pinchak, W.E., Sij, J.W., Gill, R.J., **Malinowski, D.P.**, and T.A. Baughman. **2004**. Phosphorus fertilizer impacts forage, beef, and grain production from wheat. *Better Crops with Plant Food* 88:8-11.

Robinson, D., Sij, J., Pinchak, W., Gill, R., **Malinowski, D.**, Baughman, T., and S. Bevers. **2004**. Phosphorus fertilizer bumps forage and beef production. *Fluid Journal*. Vol. 12, No. 2, Issue 45:8-10.

Messerli M., Nösberger J., **Malinowski D.**, Stadelmann F., and Zimmermann M. **1995**. Wurzelläuse Mitverantwortlich für das Verschwinden von Wiesenschwingel (*Festuca pratensis*) aus Naturwiesen? (*Are root aphids responsible for disappearing of meadow fescue from natural meadows?*). *Swiss Society of Agronomy (SGPW/SSA) Bulletin* 4:27.

Malinowski, D., and J.R. Starck. **1992**. Influence of changes in potassium and calcium levels and the ratio of these elements in the nutrient solution on the growth and yield of paprika cultivated in mineral wool. *Annals of Warsaw Agricultural University, Horticulture* 16:15-24.

Oswiecimski W., **Malinowski D.**, Przeradzka M., and Galecki K. **1992**. Greenhouse tomato cultivation in Polish mineral wool as compared with growth

on peat substrate. *Annals of Warsaw Agricultural University, Horticulture* 16:25-32.

Conference or Symposium Proceedings/Abstracts (35)

Voluntary – International (Abstracted) (29)

Malinowski, D.P., Emendack, Y., and D. Singh. **2011**. Effects of irrigation, seed coating, and seeding rate on seedling establishment and aboveground biomass productivity of ‘Prosper’ summer-dormant tall fescue. *Proceedings of the ASA, CSSA, SSSA 2011 Int. Annual Meeting*. 16-19 October 2011. San Antonio, TX.

Malinowski, D.P., Pinchak, W.E., Emendack, Y., Widdup, K., and T. Stratton. **2011**. Breeding of summer-dormant cool-season grasses for the Southern Great Plains. *Proceedings of the ASA, CSSA, SSSA 2011 Int. Annual Meeting*. 16-19 October 2011. San Antonio, TX.

Butler, T.J., and **D.P Malinowski**. **2010**. Managing perennial and annual grass systems. *In Abstracts of 7th International Symposium on Fungal Endophytes of Grasses*. 27 June - 1 July, Lexington, KY.

Malinowski, D., Pitta, D., Pinchak, W.E, Emendack, Y, and B.R. Min. **2010**. Effect of N fertilization on diurnal phenolic concentration and foam strength in forage of hard red wheat (*Triticum aestivum*) cv. Cutter. *Proceedings of the ASA, CSSA, SSSA 2010 Int. Annual Meeting*. 31 October - 4 November 2010. Long Beach, CA.

Pinchak, W.E., Pitta, D.W., Fulford, J. D., and **D.P. Malinowski**. **2010**. Ruminant pressure and pH dynamics of bloated steers grazing winter wheat forage. *Proceedings of the 2010 JAM Conference*. 11-15 July 2010. Denver, CO.

Pitta, D.W., Pinchak, W.E., Dowd, S.E., Osterstock, J., Gontcharova., V., Youn, E., Dorton, K., Yoon, I., Min, B.R., Fulford, J. D., Wickersham, T.A., and **D.P. Malinowski**. **2010**. Effect of supplementing *Saccharomyces cerevisiae* fermented product (SFP) on the productive performance of steers grazing wheat pasture. *Proceedings of the 2010 JAM Conference*. 11-15 July 2010. Denver, CO.

Pitta, D.W., Pinchak, W.E., Dowd, S.E., Osterstock, J., Gontcharova., V., Youn, E., Dorton, K., Yoon, I., Min, B.R., Fulford, J. D., Wickersham, T.A., and **D.P. Malinowski**. **2010**. Rumen bacterial diversity dynamics associated with changing from bermudagrass hay to grazed winter wheat diets. *Proceedings of the 2010 JAM Conference*. 11-15 July 2010. Denver, CO.

West, C.P., Guerber, C.A., Underwood, J.L., **Malinowski, D.P.**, and B.C. Grigg. **2010**. Biochemical responses of drought-stressed summer dormant and summer

active tall fescue with endophyte infection. *In* Abstracts of 7th International Symposium on Fungal Endophytes of Grasses. 27 June - 1 July, Lexington, KY.

West, C.P., Underwood, J.L., **Malinowski, D.P.**, Grigg, B.C., and C.A. Guerber. **2010**. Survival of summer dormant and summer active tall fescue in relation to endophyte presence. In Abstracts of 7th International Symposium on Fungal Endophytes of Grasses. 27 June - 1 July, Lexington, KY.

Guerber, C.A., Underwood, J.L., West, C.P., **Malinowski, D.P.**, and B.C. Grigg. **2009**. Biochemical responses to water deficit in summer-dormant and summer-active tall fescue. International Workshop on Summer Dormancy in Grasses. 6-8 April 2009. Ardmore, OK. Available online: <http://www.noble.org/Global/forageimprovement/SummerDormancy/proceedings/presentations/West.pdf>

Kigel, J., Ofir, M., Kon, A., **Malinowski, D.P.**, and W.E. Pinchak. **2009**. Physiology of induction and relaxation of summer dormancy in perennial grasses. International Workshop on Summer Dormancy in Grasses. 6-8 April 2009. Ardmore, OK. Available online: <http://www.noble.org/Global/forageimprovement/SummerDormancy/proceedings/PhysiologyofInduction.pdf>

Malinowski, D.P., Belesky, D.P., Kramp, B.A., Ruckle, J., Kigel, J., and W.E. Pinchak. **2009**. Germination responses of summer-dormant and summer-active tall fescue and orchardgrass accessions to photoperiod. International Workshop on Summer Dormancy in Grasses. 6-8 April 2009. Ardmore, OK. Available online: <http://www.noble.org/Global/forageimprovement/SummerDormancy/proceedings/GerminationResponsesTallFescue.pdf>

Underwood, J.L., West, C.P., **Malinowski, D.P.**, Guerber, C.A., Grigg B.C. **2009**. Summer dormancy and endophyte infection in tall fescue. International Workshop on Summer Dormancy in Grasses. 6-8 April 2009. Ardmore, OK.

West, C.P., Underwood, J.L., **Malinowski, D.P.**, and C.A. Guerber, and B.C. Grigg. **2009**. Dormancy indices, growth stages, and forage quality of summer-dormant and summer-active tall fescue. International Workshop on Summer Dormancy in Grasses. 6-8 April 2009. Ardmore, OK. Available online: <http://www.noble.org/Global/forageimprovement/SummerDormancy/proceedings/presentations/West.pdf>

West, C.P., Underwood, J.L., and **D.P. Malinowski**. **2009**. Trade-offs in growth, persistence, and quality of summer-active and summer-dormant tall fescue. *In* Proceedings of the ASA-CSSA-SSSA International Annual Meeting. 1-5 November 2009. Pittsburgh, PA.

Malinowski, D.P., Belesky, D.P., Kramp, B.A., Ruckle, J., Kigel, J., Pinchak, W.E., and R.I. Hammonds. **2008**. A method to differentiate summer-dormant from summer-active cool-season grasses at germination stage. *In* Proceedings of the ASA-CSSA-SSSA International Annual Meeting. 5-9 October 2008. Houston, TX.

Malinowski, D.P., Widdup, K., Butler, T.J., Pinchak, W.E., and B.A. Kramp. **2008**. Companion legumes for summer-dormant tall fescue. *In* Proceedings of the ASA-CSSA-SSSA International Annual Meeting. 5-9 October 2008. Houston, TX.

Underwood, J., West, C.P., and **D. Malinowski**. **2008**. Summer dormancy and survival of tall fescue in relation to endophyte presence. *In* Proceedings of the ASA-CSSA-SSSA International Annual Meeting. 5-9 October 2008. Houston, TX.

Malinowski, D.P., Kigel, J., Kramp, B.A., Zuo, H., Rathburn, H.B., Brady, J.A., Pinchak, W.E., Angerer, L.M., and M.J. Burnett. **2007**. Understanding summer dormancy in perennial cool-season grasses. *In* Proceedings of the ASA-CSSA-SSSA International Annual Meeting. 4-7 November 2007. New Orleans, LA.

Malinowski, D.P., Zuo, H., Belesky, D.P., Ruckle, J.M., Alloush, G.A., and A.E. Stratton. **2003**. Do *Neotyphodium*-endophytes affect copper acquisition by cool-season grasses? *In* Agronomy Abstracts ASA-CSSA-SSSA Annual Meeting. 2-6 November 2003. Denver, CO.

Sij, J.W., Olson, B.L.S., Ott, J.P., **Malinowski, D.P.**, Baughman, T.A. **2003**. Tolerance of three wheatgrasses to sulfosulfuron herbicide. *In* Agronomy Abstracts ASA-CSSA-SSSA Annual Meeting. 2-6 November 2003. Denver, CO.

Hopkins, A.A., **Malinowski, D.**, Walker, D.W., and H. Zuo. **2002**. Susceptibility of Russian wildrye to acidic soil/aluminum toxicity. *In* Agronomy Abstracts ASA-CSSA-SSSA Annual Meeting. 10-14 November 2002. Indianapolis, IN.

Muir, J.P., Reed, R., and **D. Malinowski**. **2002**. Seed and forage production of *Strophostyles leiosperma* and *S. helvula* harvested at 3 heights. *In* Agronomy Abstracts ASA-CSSA-SSSA Annual Meeting. 10-14 November 2002. Indianapolis, IN.

Belesky, D.P., **Malinowski, D.P.**, Gaborcik, N., and J.M. Fedders. **1998**. Some morphological and physiological considerations regarding the competitiveness of white clover (*Trifolium repens* L.). p. 215-218. Proceedings 17th General Meeting of the European Grassland Federation, 18-21 May 1988. Debrecen, Hungary.

Malinowski, D., Nösberger, J., Messerli, M., Stadelmann, F., and M. Zimmermann. **1995**. Endophytische Pilze Verbessern Trockenheitstoleranz und

Konkurrenzkraft von Wiesenschwingel (*Festuca pratensis* Huds.) (*Endophytes improve drought tolerance and the competitive ability of meadow fescue*). Swiss Society of Agronomy (SGPW/SSA) Bulletin 4:26.

Carlen, C., Nösberger, J., Gügler, B., Zimmermann, M., and **D. Malinowski**. **1993**. Reaktion der Ertragsbildung von Wiesenschwingel auf die Spross- und Wurzelkonkurrenz von Knaulgras (*Influence of root and shoot competition with orchardgrass on yield of meadow fescue*). Arbeitsgemeinschaft für Grünland und Futterbau in der Gesellschaft für Pflanzenbau-wissenschaften, Universität Hohenheim, Institut für Pflanzenbau und Grünland, p. 103-108.

Carlen, C., Nösberger, J., Gügler, B., Zimmermann, M., and **D. Malinowski**. **1993**. Relative Bedeutung und saisonale Veränderung der Spross- und Wurzelkonkurrenz zwischen Wiesenschwingel (*Festuca pratensis* Huds.) und Knaulgras (*Dactylis glomerata* L.) (*The relative importance and seasonal changes in shoot and root competitive ability of meadow fescue and orchardgrass*). Swiss Society of Agronomy (SGPW/SSA) Bulletin 1:8.

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Malinowski, D.P. 2004. Mechanisms of mineral acquisition in endophyte-infected cool-season grasses. Faculty of Agriculture, Iwate University, Morioka, Japan.

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Species	TAMUS number	Year	Type
Orchardgrass (10)	2690	2009	Summer-dormant, forage
	2691	2009	Summer-dormant, forage
	2692	2009	Summer-dormant, forage
	2693	2009	Summer-dormant, forage
	2694	2009	Summer-dormant, forage
	2698	2009	Summer-dormant, forage
	2699	2009	Summer-dormant, forage
	2700	2009	Summer-dormant, forage
	2701	2009	Summer-dormant, forage
	2702	2009	Summer-dormant, forage
Tall fescue (6)	2687	2009	Summer-dormant, forage
	2688	2009	Summer-dormant, forage
	2689	2009	Summer-dormant, forage
	2695	2009	Summer-dormant, forage
	2696	2009	Summer-dormant, forage
	2697	2009	Summer-dormant, forage
Winter-hardy hibiscus (80)	2870	2009	Ornamental, perennial
	2871	2009	Ornamental, perennial
	2872	2009	Ornamental, perennial
	2873	2009	Ornamental, perennial
	2874	2009	Ornamental, perennial
	2875	2009	Ornamental, perennial
	2876	2009	Ornamental, perennial
	2877	2009	Ornamental, perennial
	2878	2009	Ornamental, perennial
	2879	2009	Ornamental, perennial

	3088	2010	Ornamental, perennial
	3089	2010	Ornamental, perennial
	3090	2010	Ornamental, perennial
	3091	2010	Ornamental, perennial
	3092	2010	Ornamental, perennial
	3093	2010	Ornamental, perennial
	3094	2010	Ornamental, perennial
	3095	2010	Ornamental, perennial
	3096	2010	Ornamental, perennial
	3097	2010	Ornamental, perennial
	3098	2010	Ornamental, perennial
	3099	2010	Ornamental, perennial
	3100	2010	Ornamental, perennial
	3101	2010	Ornamental, perennial
	3209	2010	Ornamental, perennial
	3210	2010	Ornamental, perennial
	3211	2010	Ornamental, perennial
	3212	2010	Ornamental, perennial
	3213	2010	Ornamental, perennial
	3239	2010	Ornamental, perennial
	3240	2010	Ornamental, perennial
	3241	2010	Ornamental, perennial
	3242	2010	Ornamental, perennial
	3243	2010	Ornamental, perennial
	3244	2010	Ornamental, perennial
	3245	2010	Ornamental, perennial
	3246	2010	Ornamental, perennial
	3247	2010	Ornamental, perennial
	3248	2010	Ornamental, perennial
	3249	2010	Ornamental, perennial
	3250	2010	Ornamental, perennial
	3251	2010	Ornamental, perennial
	3252	2010	Ornamental, perennial
	3253	2010	Ornamental, perennial
	3254	2010	Ornamental, perennial
	3255	2010	Ornamental, perennial
	3256	2010	Ornamental, perennial
	3257	2010	Ornamental, perennial
	3258	2010	Ornamental, perennial
	3302	2010	Ornamental, perennial
	3303	2010	Ornamental, perennial
	3304	2010	Ornamental, perennial
	3305	2010	Ornamental, perennial
	3306	2010	Ornamental, perennial
	3307	2010	Ornamental, perennial
	3308	2010	Ornamental, perennial
	3309	2010	Ornamental, perennial
	3310	2010	Ornamental, perennial
	3311	2010	Ornamental, perennial

	3401	2011	Ornamental, perennial
	3540	2011	Ornamental, perennial
	3541	2011	Ornamental, perennial
	3542	2011	Ornamental, perennial
	3543	2011	Ornamental, perennial
	3544	2011	Ornamental, perennial
	3545	2011	Ornamental, perennial
	3546	2011	Ornamental, perennial
	3547	2011	Ornamental, perennial
	3548	2011	Ornamental, perennial
	3549	2011	Ornamental, perennial
	3550	2011	Ornamental, perennial
	3551	2011	Ornamental, perennial
	3552	2011	Ornamental, perennial
	3553	2011	Ornamental, perennial
	3554	2011	Ornamental, perennial
	3555	2011	Ornamental, perennial
	3556	2011	Ornamental, perennial
	3557	2011	Ornamental, perennial
	3558	2011	Ornamental, perennial
	3559	2011	Ornamental, perennial
Brugmansia (25)	2889	2009	Ornamental, perennial
	2890	2009	Ornamental, perennial
	2891	2009	Ornamental, perennial
	2892	2009	Ornamental, perennial
	2893	2009	Ornamental, perennial
	2894	2009	Ornamental, perennial
	2895	2009	Ornamental, perennial
	2896	2009	Ornamental, perennial
	2897	2009	Ornamental, perennial
	2907	2009	Ornamental, perennial
	2908	2009	Ornamental, perennial
	2909	2009	Ornamental, perennial
	2910	2009	Ornamental, perennial
	2911	2009	Ornamental, perennial
	3336	2011	Ornamental, perennial
	3337	2011	Ornamental, perennial
	3338	2011	Ornamental, perennial
	3339	2011	Ornamental, perennial
	3340	2011	Ornamental, perennial
	3341	2011	Ornamental, perennial
	3342	2011	Ornamental, perennial
	3343	2011	Ornamental, perennial
	3344	2011	Ornamental, perennial
	3345	2011	Ornamental, perennial
	3433	2011	Ornamental, perennial