FACULTY CUMULATIVE ACHIEVEMENT REPORT

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES TEXAS AGRILIFE RESEARCH

I. Personal Information

Name: **Dariusz P. MALINOWSKI**

Rank: Professor

Unit: Texas AgriLife Research and Extension Center - Vernon

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Date of appointment: March 1, 2001 Date of last promotion: September 1, 2013

II. Education and Experience

1. Education

Ph.D. Natural Sciences, Swiss Federal Institute of Technology (ETH),

Zurich. 1996.

M.Sc. and Engineer Horticulture, Agricultural University (SGGW), Warsaw, Poland.

1989.

2. Experience

2013 - present	Professor, Project Leader (Forage Systems). Texas AgriLife		
•	Research, Vernon, TX.		
2007 - 2013	Associate Professor, Project Leader (Forage Systems). Texas		
	AgriLife Research, Vernon, TX.		
2001 - 2007	Assistant Professor, Project Leader (Forage Systems). Texas		
	AgriLife Research, Vernon, TX.		
1998 - 2001	Postdoctoral Research Associate (Forages). Texas AgriLife		
	Research, Vernon, TX.		
1996 - 1998	Visiting Scientist (Grassland Management and Crop Physiology).		
	USDA-ARS, Appalachian Farming Systems Research Center,		
	Beaver, WV.		
1992 - 1995	Research Assistant (Grassland Management and Forage Crop		
	Physiology). Swiss Federal Institute of Technology, Zurich.		
1989-1991	Research Assistant (Mineral Nutrition of Plants and Soil		
	Management). Agriculture University, Warsaw, Poland.		

III. Honors and Awards Received (4)

- 2018 Greenhouse Grower's Medal of Excellence Editor's Choice: Summer Spice Hardy Hibiscus Collection (J Berry Nursery).
- 2018 Greenhouse Grower's Medal of Excellence Readers' Choice: Summer Spice Hardy Hibiscus Collection (J Berry Nursery).
- 2006 Merit Award. American Forage and Grassland Council. Research on summer-dormant cool-season grasses for Texas.
- 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.

IV. AREAS OF EXPERTISE

- 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) Breeding of summer-dormant cool-season grasses for forage production.
- 5) Improvement of annual legumes as components of mixed stands with summerdormant cool-season grasses.
- 6) Improvement of forage wheat quality characteristics.
- 7) Breeding of *Hibiscus* cultivars with unique flower and foliage characteristics.

V. PUBLICATIONS

Peer-Reviewed, Refereed Journal Articles (53)

- Decunta, F.A., Perez, L.I., **Malinowski, D.P.**, Molina-Montenegro, M.A., and P.E. Gundel. 2020. A systematic review on the effects of Epichloë fungal endophytes on drought tolerance in cool-season grasses. Frontiers in Plant Science 12:644731. https://doi.org/10.3389/fpls.2021.644731.
- Rauf, S., Ortiz, R., **Malinowski, D.P**., Clarindo, W.R., Kainat, W., Shehzad, M., Waheed, U., Hassan, S.W. 2020. Induced polyploidy: A tool for forage species improvement. Agriculture 11:210. https://doi.org/10.3390/agriculture11030210.
- Belesky, D.P., Halvorson, J.J., Ruckle, J.M., **Malinowski, D.P.**, Mata-Padrino, D.J. **2019**. Designed and naturalized sward response to management: Patterns of herbage production. Annals of Applied Biology 175, 42-53. DOI: 10.1111/aab.12512
- **Malinowski, D.P.**, Belesky, D.P. **2019**. *Epichloë* (formerly *Neotyphodium*) fungal endophytes increase adaptation of cool-season perennial grasses to environmental stresses. Acta Agrobotanica 72:1767. DOI: 10.5586/aa.1767
- **Malinowski, D.P.**, Pinchak, W.E., Yanker-Hansen, K. **2019**. Phenotypic similarities in flower characteristics between novel winter-hardy hibiscus hybrids and their tropical relatives. Frontiers in Plant Science 10:1528. DOI: 10.3389/fpls.2019.01528
- **Malinowski, D.P.**, Pinchak, W.E., Pitta, D., Min, B.R. **2018**. Solar radiation affects bloat potential of wheat forage. Acta Agrobotanica 71(4):1754. https://doi.org/10.5586/aa.1754

- **Malinowski, D.P.**, Rudd, J.C., Pinchak, W.E., Baker, J. **2018**. Determining morphological traits for selecting wheat (*Triticum aestivum* L.) with improved early-season forage production. Journal of Advances in Agriculture 9:1508-1530.
- Dowling, C.D., B.L. Burson, **D. Malinowski**, J.J. Heitholt, R.E. Mason, and R.W. Jessup. **2017**. Expression of apetala 2 (AP2) and rare cold inducible (RCI2) homologs in overwintering rhizomes of Napiergrass (*Pennisetum purpureum* Schumach.). Plant Gene. Submitted 6/2018.
- Min, B.R., W.E. Pinchak, and **D.P. Malinowski**. **2017**. Interrelationships of winter wheat varieties on rumen fermentation rate, forage biomass production, and grain yield dynamics under the grazed out by steers. Journal of Advances in Agriculture 7:1122-1137.
- Missaoui, A.M., **D.P. Malinowski**, W.E. Pinchak, and J. Kigel. **2017**. Insights into the drought and heat avoidance mechanism in summer-dormant Mediterranean tall fescue. Frontiers in Plant Science. doi: 10.3389/fpls.2017.01971.
- Belesky, D.P., and **D.P. Malinowski**. **2016**. Grassland communities in the USA and expected trends associated with climate change. Acta Agrobotanica. 69(2):1673. DOI: http://dx.doi.org/10.5586/aa.1673.
- Denisow, B. and **D.P. Malinowski. 2016**. Climate change and the future of our world implications for plant phenology, physiology, plant communities, and crop management. Acta Agrobotanica. 69(2):1683. DOI: http://dx. doi. org/10. 5586/aa. 1683.
- Javed, S., S. Rauf, J. Paderewski, **D.P. Malinowski**, U. Saleem, M. Shahzad. **2016**. Evaluation of Egyptian clover (*Trifolium alexandrinum* L.) germplasm through redundancy analysis for forage yield and its components. Crop Sci. 56:1179–1188.
- Norton, M.R., **D.P. Malinowski**, and F. Volaire. **2016**. Plant drought survival under climate change and strategies to improve perennial grasses. A review. Agron. Sustain. Dev. 36:29.
- **Malinowski, D.P.**, and W.E. Pinchak. **2015**. Summer dormancy trait as a strategy to provide perennial cool-season grass forage alternatives in southern latitude environments affected by climate change. Agron. J. 107:1227–1234.
- **Malinowski, D.P.**, W.E. Pinchak, B. Min, J.C. Rudd, and J. Baker. **2015**. Phenolic compounds affect bloat potential of wheat forage. Crop, Forage and Turfgrass Management. DOI: 10.2134/cftm2015.0146.
- Emendack, Y., **Malinowski, D.**, Burke, J., Burow, G., and Z. Xin. **2014**. Morpho-physiological characterization of cold and pre-flowering drought tolerance in grain sorghum (*Sorghum bicolor* L. Moench) inbreds. American J. Exp. Agric. 4 (12):1500–1516.
- Pitta, D.W., Pinchak, W.E., Dowd, S., Dorton, K., Yoon, I., Min, B.R., Fulford, J.D., Wickersham, T.A., and **D.P. Malinowski**. **2014**. Longitudinal shifts in bacterial diversity and fermentation pattern in the rumen of steers grazing wheat pasture. Anaerobe 30:11-17.
- **Malinowski, D.P.**, Belesky, D.P., Ruckle, J.M., and Fedders, J.M. **2012**. Productivity and botanical composition of orchardgrass white clover swards in a cool-temperate hill and region. Grassland Science 58:188-200.
- **Malinowski, D.P.**, Brown, R.S., and W.E. Pinchak. **2012**. 'Blue Angel' winter-hardy hibiscus (*Hibiscus* x *moscheutos* L.). HortScience 47:289–290.
- **Malinowski, D.P.**, Brown, R.S., and W.E. Pinchak. **2012**. 'Robert Brown' winter-hardy hibiscus (*Hibiscus* x *moscheutos* L.). HortScience 47:291–292.

- **Malinowski, D.P.**, Emendack, Y.Y., and D. Singh. **2012**. Yellow Jacket ® seed coating improves establishment of 'Prosper' summer-dormant tall fescue. Forage and Grazinglands 10:1113. DOI:10.1094/FG-2012-1113-01-RS
- 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. 10.1094/FG-2011-0912-01-RS
- 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. DOI:10.1094/FG-2011-0725-01-RS
- 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.
- **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.
- **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.
- 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.
- **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.
- West, C.P., Norton, M.R., Volaire, 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.
- **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.
- **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.
- 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.
- 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.
- 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 dualuse and grain-only wheat production systems. Agron. J. 99: 773-778.
- **Malinowski, D.P.**, and D.P. Belesky. **2006**. Ecological importance of *Neotyphodium* spp. grass endophytes in agroecosystems. Grassland Sci. 52:1-14.

- **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.
- 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.
- 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.
- **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.
- **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.
- **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.
- **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.
- **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.
- **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.
- **Malinowski, D.P.**, and D.P. Belesky. **1999**. Tall fescue aluminum tolerance is affected by *Neotyphodium coenophialum* endophyte. J. Plant Nutr. 22:1335-1349.
- **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.
- 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.
- **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.
- **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.
- **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.
- **Malinowski D.**, Leuchtmann 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.
- **Malinowski D.**, Leuchtmann 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.

Nonrefereed, Editor-Reviewed Articles (6)

- **Malinowski, D.P. 2016**. Creating new flower colors in winter-hardy hibiscus. Lazy Gardener and Friends Houston Garden Newsletter 170 (8/26/2016). http://archive.constantcontact.com/fs172/1112503958110/archive/1125637249164.html
- 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.

Abstracts and Papers (incl. Conference Proceedings)

(a) Invitational (49)

(i) International level scientific meetings or symposia (14)

Abstracted (9)

- **Malinowski, D.P.**, Pinchak, W.E., and J. Ford. **2020.** Heat, drought stress and dormancy for grasses in southern latitudes. ASA-CSSA-SSSA International Annual Meeting Virtual. 19-13 November 2020. Madison, WI.
- **Malinowski, D.P.**, and W.E. Pinchak. **2014**. Forage grasses matching production to favorable water supply. ASA-CSSA-SSSA Annual Meeting. 4-7 November 2014. Long Beach, CA.
- Thomas, J.L., C.P. West, and **D.P. Malinowski**. **2013**. Summer dormancy and survival of tall fescue in relation to endophyte presence. Proc. 22nd International Grassland Congress. 15-19 September 2013. Sydney, Australia [CD-ROM].
- Young, C.A., **Malinowski, D.P.**, Trammell, M.A. Interrante, S.M., Rogers, J.K., and T.J. Butler. **2013**. Perspectives of summer-dormant tall fescue in the Southern Great Plains, USA. Proc. 22nd International Grassland Congress. 15-19 September 2013. Sydney, Australia [CD-ROM].

- **Malinowski, D.P.**, West, C.P., and D.P. Belesky. **2010**. The role of endophytes in summer-dormant tall fescue. Proceeding of the 7th International Symposium on Fungal Endophyte of Grasses. 27 June 1 July 2010. Lexington, KY.
- 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.
- **Malinowski, D.P. 2009**. Water deficit, heat tolerance and persistence of summer-dormant grasses in the US Southern Plains. International Workshop on Summer Dormancy in Grasses. 6-8 April 2009. Ardmore, OK.
- **Malinowski, D.P.**, and D.P. Belesky. **2006**. Ecological importance of *Neotyphodium* spp. grass endophytes in agroecosystems Implications for future Research. *In* Proceedings of the Satellite Annual Meeting of the Japanese Society of Grassland Science. *Neotyphodium* endophytes: Hidden nature of the symbiotic fungi, impact on grassland ecosystem and grass/animal production. 28 March 2006, Tsukuba, Japan.
- **Malinowski, D.P. 2004**. Abiotic stresses in endophytic grasses. 5th International Symposium on *Neotyphodium*/Grass Interactions. 23-26 May 2004. Fayetteville, AR.

Non-abstracted (5)

- **Malinowski, D.P. 2006**. Current research on *Neotyphodium* spp. grass endophytes in the USA. National Institute of Livestock and Grassland Science Research, Nishinasuno, Japan.
- Malinowski, D.P. 2006. <u>Keynote Lecture:</u> Ecological importance of *Neotyphodium* spp. grass endophytes in agroecosystems Implications for future research. Annual Meeting of the Japanese Society of Grassland Science. 28 March 2006, Tsukuba, Japan.
- **Malinowski, D.P. 2006**. Summer-dormant cool-season perennial grasses New forages for semidry environments. Faculty of Agriculture, Iwate University, Morioka, Japan.
- **Malinowski, D.P. 2004**. Drought tolerance in endophyte-infected cool-season grasses: Osmotic regulation or protection from oxidative stress? Faculty of Agriculture, Iwate University, Morioka, Japan (*broadcasted to all agriculture universities in Japan*).
- **Malinowski, D.P. 2004**. Mechanisms of mineral acquisition in endophyte-infected cool-season grasses. Faculty of Agriculture, Iwate University, Morioka, Japan.

(ii) Regional or state scientific meetings (16)

- **Malinowski, D.P. 2020.** Breeding for novel flower colors in winter-hardy and tropical hibiscus. 32nd Annual Texas Plant Protection Conference Virtual. 8-10 December 2020. Conroe, TX.
- **Malinowski, D.P. 2019.** Breeding for summer-dormant cool-season grasses. Texas Seed Trade Association. 4-6 March 2019. Austin, TX. 2019.
- **Malinowski, D.P. 2017.** Creating New Flower Colors in Winter-Hardy Hibiscus (*H. x moscheutos*). California Horticultural Society. 16 July 2017.
- **Malinowski, D.P. 2016.** Creating New Flower Colors in Winter-Hardy Hibiscus. Greater Houston Plant Conference. 16 September 2016. Houston, TX. Texas AgriLife Extension.

- **Malinowski, D.P. 2010**. Summer-dormant cool-season perennial grasses and their fungal endophytes. Texas Seed Trade Association. 7-9 February 2010. Dallas, TX.
- **Malinowski, D.P. 2009**. Summer-dormant cool-season grasses 2009 Research update. Regional Forage Workers Meeting. 21-22 May 2009. Southwest Research and Education Center. Hope, AR.
- **Malinowski, D.P. 2008**. Summer-dormant cool-season perennial grasses. Western Rolling Plains Chemical Conference. Spur, TX.
- **Malinowski, D.P. 2008**. Summer dormancy in cool-season grasses Regulatory mechanisms and the potential for uses in environments with severe summer drought. Seminar Series. The Samuel Roberts Noble Foundation. Ardmore, OK.
- **Malinowski, D.P. 2006**. Physiological and morphological traits for selection of dual-use wheat with improved forage production. Southwestern Wheat Research and Education Consortium. Stillwater, OK.
- **Malinowski, D.P. 2004**. Forages for the Texas Rolling Plains. Texas Pasture and Forage Work Group. Uvalde, TX.
- **Malinowski, D.P. 2004**. Integrated forage systems. Big Country Wheat Conference. Abilene, TX.
- **Malinowski, D.P. 2004**. Update on summer-dormant cool-season perennial grass research in Texas. Texas Plant Protection Conference. College Station, TX.
- **Malinowski, D.P. 2003**. Can we improve the persistence of perennial cool-season grasses in semi-arid environments of the Texas Rolling Plains. Texas Seed Trade Association. Dallas, TX.
- **Malinowski, D.P. 2003**. Dual-purpose wheat and cool-season perennial grasses: Integrated vs. traditional grazing systems. Southwestern Wheat Research and Education Consortium (SWREC). Vernon, TX.
- **Malinowski, D.P. 2001**. Pasture management systems for the Texas Rolling Plains. Crop Physiology Working Group. Austin, TX.
- **Malinowski, D.P. 2001**. Pasture management systems for the Texas Rolling Plains. Texas Pasture and Forage Work Group. Stephenville, TX.

(iii) Producer or research-user meetings (20)

- **Malinowski, D.P. 2019**. Breeding novel flower colors in winter-hardy hibiscus. Texas Retired Teachers Association, Vernon, TX. 12 March 2019.
- **Malinowski, D.P. 2019**. Breeding novel flower colors in winter-hardy hibiscus. Vernon Chamber of Commerce, Vernon, TX. 25 June 2019.
- **Malinowski, D.P. 2019**. Creating new flower colors in winter-hardy hibiscus. District 3 Texas Extension Education Association Meeting, Vernon, TX. 28 March 2019.
- **Malinowski, D.P. 2019**. Summer-dormant cool-season perennial grasses New forages resilient to climate fluctuations in the Southern Great Plains. Plant and Soil Science, Texas Tech University, Lubbock, TX. 31 January 2019.
- **Malinowski, D.P. 2019.** New flower colors in winter-hardy hibiscus are being developed at Texas AgriLife Research Center at Vernon. Rotary Club of Vernon, Texas. 5 February 2019.

- **Malinowski, D.P. 2018.** Creating new flower colors in winter-hardy hibiscus (*H. x moscheutos*). Kiwanis Club of Vernon, 29 June 2018.
- **Malinowski D.P. 2017.** Summer-dormant cool-season forage grass cultivars for southern latitude environments affected by climate change. 10 November 2017. Plant Breeder Circle, Department of Crop and Soil Sciences, TAMUS.
- **Malinowski D.P. 2016.** Breeding new flower colors in winter-hardy hibiscus. Master Gardeners Program. 1 November 2016. Wichita Falls, TX. Texas AgriLife Extension.
- **Malinowski, D.P. 2016.** Breeding new flower colors in winter-hardy hibiscus. Plant Breeder Circle Seminar, TAMUS Department of Crop and Soil Sciences, TAMUS. 15 April 2016. College Station, TX.
- **Malinowski, D.P. 2014.** Breeding crops matching production to favorable water supply. Vernon Leadership Program. Vernon, TX.
- **Malinowski, D.P. 2013.** Changing climate and the future of cool-season perennial forages in the U.S. Southern Plains. Soil and Crop Sciences Departmental Seminar. 13 February 2013. College Station, TX.
- **Malinowski, D.P. 2009**. Cool-season grasses under drip irrigation. Subsurface Drip Irrigation Field Day. Texas AgriLife Research. Chillicothe, TX.
- **Malinowski, D.P. 2009**. Summer-dormant cool-season grasses for drought-prone environments in the Southern Great Plains. Perennial Grass Field Day. Texas AgriLife Research. Etter, TX.
- **Malinowski, D.P. 2006**. New on the horizon: Drought tolerant fescue and alfalfa varieties. USDA Forage and Pasture Workshop. Throckmorton, TX
- **Malinowski, D.P. 2006**. Update on the use of summer-dormant forage grasses, specifically 'Flecha' tall fescue. District 3 Forage Ag Agent Training. Vernon, TX.
- **Malinowski, D.P. 2005**. Management of 'Grasslands Flecha' tall fescue. Flecha Field Day. Iowa Park, TX.
- **Malinowski, D.P. 2005**. Persistence of 'Grasslands Flecha' tall fescue in north Texas. Flecha Field Day. Memphis, TX.
- Malinowski, D.P. 2005. Rolling and High Plains alfalfa production seminar. Clarendon, TX.
- **Malinowski, D.P. 2004**. Integrated forage systems for the Rolling Plains. AgriPro Wheat Field Day. Vernon, TX.
- **Malinowski, D.P. 2001**. Karnal bunt in Texas Wheat A need for complementary forages for dual-purpose wheat in the Texas Rolling Plains. County Farmers Meeting. Haskell, TX.
- (b) *Volunteer* (40)
- (i) International level scientific meetings or symposia (32)

Abstracted (32)

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Research/Extension Publications (2)

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- 2018 New Texas-bred blue hibiscus flowers arrive in stores this weekend. By Mariana Green. Dallas News. 20 August 2018. https://www.dallasnews.com/life/gardening/2018/08/20/new-texas-bred-blue-hibiscus-flowers-arrivein-stores-weekend

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- **Malinowski, D.P.**, Pinchak, W.E., and J. Kigel. **2007**. Role of obligatory summer dormancy in cool-season perennial grasses for improved semiarid grassland ecosystems. Final Report to BARD/TIE.
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VI. TECHNOLOGY TRANSFER

(a) Summary Table of Plant Materials Disclosed to Texas A&M System Technology Commercialization.

Сгор	2001-2020
Summer-dormant grasses	35
Winter-hardy hibiscus	398
Tropical hibiscus	177
Brugmansia (discontinued)	25
Total	635

(b) Patents (8)

Malinowski, D.P., Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15011 GR`. PP31,723. 5 May 2020. Application Number 16/501,695. Application Filling Date 22 May 2019.

- **Malinowski, D.P.**, Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15173 GR`. PP32,001. 21 July 2020. Application Number 16/501,692. Application Filling Date 22 May 2019.
- **Malinowski, D.P.**, Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15334-1 GR`. PP31,706. 28 April 2020. Application Number 16/501,697. Application Filling Date 22 May 2019.
- **Malinowski, D.P.**, Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15353-2N`. PP31,967. 14 July 2020. Application Number 16/501,693. Application Filling Date 22 May 2019.
- **Malinowski, D.P.**, Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15516 GR`. PP31,722. 5 May 2020. Application Number 16/501,694. Application Filling Date 22 May 2019.
- **Malinowski, D.P.**, Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15714-1N`. PP31,940. 7 July 2020. Application Number 16/501,698. Application Filling Date 22 May 2019.
- **Malinowski, D.P.**, Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15719 GRW`. PP31,750. 12 May 2020. Application Number 16/501,696. Application Filling Date 22 May 2019.
- **Malinowski, D.P.**, Pinchak, W.E., and R.S. Brown. 2020. Hibiscus plant named `15734-1 GR`. PP31,939. 7 July 2020. Application Number 16/501,691. Application Filling Date 22 May 2019.

Other Evidence that Technology Developed by the Faculty Member is being Utilized by Industry or Producers (4)

- 2018 Commercialization of eight (8) winter-hardy hibiscus cultivars under the trade name Summer Spice Hibiscus by J Berry Nursery.
- 2012 Summer-dormant tall fescue management and use for Texas. Technical Note No: TX-PM-12-01. United States Department of Agriculture, Natural Resources Conservation Service. Available at: www.plant-materials.nrcs.usda.gov/pubs/txpmctn10779.pdf
- 2011 Yellow Jacket Coated Seed. Stronger Disease Resistance, Better Seed Establishment, More Forage Production. Barenbrug USA. Available at: www.barenbrug.com/documents/1001/Forage-Yellow%20Jacket.pdf
- 2010 Grasslands Flecha Tall Fescue. User Guide for Texas and Oklahoma. AgResearch USA Ltd.

VII. SERVICE ACTIVITIES

- (a) Type of Activity and Role of Individual (37)
- Malinowski. D.P. Breeding for novel flower colors in winter-hardy and tropical hibiscus. Guest seminar (virtual). Guest seminar (virtual). Master Gardeners. 2 March 2021. Wichita Falls, TX.

- Malinowski. D.P. Breeding for novel flower colors in winter-hardy and tropical hibiscus. Guest seminar (virtual). Guest seminar (virtual). Master Gardeners. 2 February 2021. Lubbock, TX.
- Malinowski. D.P. Breeding for novel flower colors in winter-hardy and tropical hibiscus. Guest seminar (virtual). Pacific Palisades Garden Club. 4 January 2021. Los Angeles, CA.
- **Malinowski, D.P.** Summer-dormant cool-season perennial grasses New forages resilient to climate fluctuations in the Southern Great Plains. Guest seminar. Graduate students. Texas Tech University. 31 January 2019. Lubbock, TX.
- 2019 Malinowski, D.P. Breeding for summer-dormant cool-season grasses. Guest lecture. Texas Seed Trade Association. 4-6 March 2019. Austin, TX.
- Malinowski, D.P. Breeding new flower colors in winter-hardy hibiscus. Guest lecture. Texas Retired Teachers Association. 12 March 2019. Vernon, TX.
- **Malinowski, D.P.** Creating new flower colors in winter-hardy hibiscus. Guest lecture. District 3 Texas Extension Education Association meeting. Texas A&M AgriLife Extension. 28 March 2019. Vernon, TX.
- **Malinowski, D.P.** Breeding novel flower colors in winter-hardy hibiscus. Guest lecture. Vernon Chamber of Commerce. 25 June 2019. Vernon, TX.
- **Malinowski, D.P.** Creating novel flower colors in winter-hardy hibiscus (*H. x moscheutos*). Guest lecture. Kiwanis Club of Vernon. 29 June 2018. Vernon, TX.
- **Malinowski D.P.** Breeding for novel flower colors in winter-hardy hibiscus (*H. x moscheutos*). Guest seminar. California Horticultural Society. 16 July 2017. San Francisco, CA.
- 2017 Malinowski D.P. Summer-dormant cool-season forage grass cultivars for southern latitude environments affected by climate change. Guest lecture. Plant Breeding Circle, TAMUS Department of Crop and Soil Sciences. 10 November 2017. College Station, TX.
- **Malinowski, D.P.** Creating novel flower colors in winter-hardy hibiscus. Guest seminar. Greater Houston Plant Conference. Texas AgriLife Extension. 16 September 2016. Houston, TX.
- **Malinowski D.P.** Breeding new flower colors in winter-hardy hibiscus. Guest lecture. Master Gardeners Program. Texas AgriLife Extension. 1 November 2016. Wichita Falls, TX.
- **Malinowski, D.P.** Breeding new flower colors in winter-hardy hibiscus. Guest seminar. Plant Breeder Circle, TAMUS Department of Crop and Soil Sciences. 15 April 2016. College Station, TX.
- **Malinowski, D.P.** Breeding crops matching production to favorable water supply. Guest lecture. Vernon Leadership Program. Texas AgriLife Extension. Vernon, TX.
- **Malinowski, D.P.** Changing climate and the future of cool-season perennial forages in the U.S. Southern Plains. Guest seminar. TAMUS Department of Crop and Soil Sciences. 13 February 2013. College Station, TX.
- **Malinowski, D.P.** Water deficit, heat tolerance and persistence of summer-dormant grasses in the US Southern Plains. Guest lecture. International Workshop on Summer Dormancy in Grasses. 6-8 April 2009. Ardmore, OK.

- **Malinowski, D.P.** Summer-dormant cool-season grasses Research Update. Guest lecture. Regional Forage Workers Meeting. 21-22 May 2009. Southwest Research and Education Center. Hope, AR.
- **Malinowski, D.P.** Cool-season grasses under drip irrigation. Field day presenter. Subsurface Drip Irrigation Field Day. Texas AgriLife Research. Chillicothe, TX.
- **Malinowski, D.P.** Summer-dormant cool-season grasses for drought-prone environments in the Southern Great Plains. Field day presenter. Perennial Grass Field Day. Texas AgriLife Research. Etter, TX.
- **Malinowski, D.P.** Summer dormancy in cool-season grasses Regulatory mechanisms and the potential for uses in environments with severe summer drought. Guest seminar. The Samuel Roberts Noble Foundation. Ardmore, OK.
- **Malinowski, D.P.** Summer-dormant cool-season perennial grasses. Guest lecture. Western Rolling Plains Chemical Conference. Spur, TX.
- **Malinowski, D.P.** New on the horizon: Drought tolerant fescue and alfalfa varieties. Guest lecture. USDA Forage and Pasture Workshop. Throckmorton, TX
- **Malinowski, D.P.** Physiological and morphological traits for selection of dual-use wheat with improved forage production. Guest lecture. Southwestern Wheat Research and Education Consortium. Stillwater, OK.
- **Malinowski, D.P.** Update on the use of summer-dormant forage grasses, specifically 'Flecha' tall fescue. Guest lecture. District 3 Forage Ag Agent Training. Texas AgriLife Extension. Vernon, TX.
- **Malinowski, D.P.** Management of 'Grasslands Flecha' tall fescue. Field day presenter. Flecha Field Day. The Samuel Roberts Noble Foundation. Iowa Park, TX.
- **Malinowski, D.P.** Persistence of 'Grasslands Flecha' tall fescue in north Texas. Field day presenter. Flecha Field Day. The Samuel Roberts Noble Foundation/Grasslands Innovation. Memphis, TX.
- **Malinowski, D.P.** Rolling and High Plains alfalfa production seminar. Guest lecture. Texas Agricultural Extension Service. Clarendon, TX.
- **Malinowski, D.P.** 2004. Forages for the Texas Rolling Plains. Guest lecture. Texas Pasture and Forage Work Group. Uvalde, TX.
- **Malinowski, D.P.** Integrated forage systems for the Rolling Plains. Field day presenter. AgriPro Wheat Field Day. Vernon, TX.
- **Malinowski, D.P.** Integrated forage systems. Guest lecture. Big Country Wheat Conference. Abilene, TX.
- **Malinowski, D.P.** Update on summer-dormant cool-season perennial grass research in Texas. Guest lecture. Texas Plant Protection Conference. College Station, TX.
- **Malinowski, D.P.** Can we improve the persistence of perennial cool-season grasses in semi-arid environments of the Texas Rolling Plains. Guest lecture. Texas Seed Trade Association. Dallas, TX.
- **Malinowski, D.P.** Dual-purpose wheat and cool-season perennial grasses: Integrated vs. traditional grazing systems. Guest lecture. Southwestern Wheat Research and Education Consortium. Vernon, TX.
- 2001 Malinowski, D.P. Karnal bunt in Texas Wheat A need for complementary forages for dual-purpose wheat in the Texas Rolling Plains. Guest lecture. County Farmers Meeting. Texas Agricultural Extension Service. Haskell, TX.

- 2001 **Malinowski, D.P.** Pasture management systems for the Texas Rolling Plains. Guest lecture. Crop Physiology Working Group. Austin, TX.
- 2001 **Malinowski, D.P.** Pasture management systems for the Texas Rolling Plains. Guest lecture. Texas Pasture and Forage Work Group. Stephenville, TX.

(b) International Program Activities (8)

(i) Invited Lectures (5)

- 2006 **Malinowski, D.P.** Current research on *Neotyphodium* spp. grass endophytes in the USA. *Invited lecture*. National Institute of Livestock and Grassland Science Research. Nishinasuno, Japan.
- 2006 **Malinowski, D.P.** Ecological importance of *Neotyphodium* spp. grass endophytes in agroecosystems Implications for future research. *Keynote lecture*. Annual Meeting of the Japanese Society of Grassland Science. 28 March 2006. Tsukuba, Japan.
- 2006 **Malinowski, D.P.** Summer-dormant cool-season perennial grasses New forages for semidry environments. *Invited lecture*. Faculty of Agriculture, Iwate University. Morioka, Japan.
- 2004 **Malinowski, D.P.** Drought tolerance in endophyte-infected cool-season grasses: Osmotic regulation or protection from oxidative stress? *Invited lecture*. Faculty of Agriculture, Iwate University. Morioka, Japan (*broadcasted to all agriculture universities in Japan*).
- 2004 **Malinowski, D.P.** Mechanisms of mineral acquisition in endophyte-infected cool-season grasses. Invited lecture. Faculty of Agriculture, Iwate University. Morioka, Japan.

(ii) International Collaboration (3)

- Volaire, F., Barre, P., Kallida, R., Kigel, J., Tongel, O., Norton, M., and **D. Malinowski**. Using summer-dormant perennial grasses to cope with increasing aridity in sustainable Mediterranean pastures. *Research proposal*. Grantor: European Community. Amount requested: €433,000 (approx. \$570,737), not funded. France/Morocco/Israel/Australia/USA.
- 2010 Kigel, J., Kallida, R., and **D.P. Malinowski**. Summer dormancy trait to improve productivity and sustainability of perennial forage grasses in semi-arid Mediterranean rangelands threatened by climate change (M31-037). *Research proposal*. Middle East Regional Cooperation (MERC) Program. Amount requested: \$537,600, not funded. Israel/Morocco/USA.
- Malinowski, D.P., Kigel, J., and W.E. Pinchak. Role of obligatory summer dormancy in cool-season perennial grasses for improved semiarid grasslands ecosystems. *Research proposal*. Texas-Israel Exchange Fund/BARD. Texas \$50,000; Israel \$50,000, funded and completed. Israel/USA.

(c) Professional, Scientific, and Honor Society Activities (29)

(i) Offices Held, Editorial Assignment, Committees, etc. (24)

(1) Editorial Boards (5)

2020-present	Grass Research	Editorial Board Member
2020-present	Journal of Agriculture and Food	Editorial Board Member
2016-present	Acta Agrobotanica	Editorial Board Member
2009-present	Crop Science	Associate Editor
2005-present	Forage and Grazinglands	Associate Editor

(2) Professional Affiliations (6)

American Forage and Grassland Council (AFGC) – Member American Society of Agronomy (ASA) – Member Crop Society of America (CSSA) – 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

Award Committees (1) **(3)**

2003-2004 C454 Young Crop Scientist Award Committee of the Crop Science Society of America.

Scientific Conferences Committees (2) **(4)**

2011-2013 Member of the Organizing Committee of the 2nd International Workshop on Summer Dormancy in Grasses. Satellite Meeting associated with the XXII International Grassland Congress. Australia.

2009 Member of the Organizing Committee of the 1st International Workshop on Summer Dormancy in Grasses, 6–9 April 2009, Ardmore, OK.

Grant Proposal Review Panels (7) **(5)**

2018	ARS-USDA NP 215 Genetics & Breeding of Grasses Review Panel.
2016	Israeli Mistry of Science, Technology, and Space.
2014	Canada Foundation of Innovation.
2012-2013	ARS-USDA NP 215 Genetics & Breeding of Grasses Review Panel.
2012	Research Fellow Partnership Programme. Swiss Agency for Development
	and Cooperation.
2006	German Research Foundation (Deutsche Forschungsgemeinschaft).
2006	USDA National Research Initiative.

b. **Consulting Activities (5)**

(1) International (4)

Advisor to the research project "INNOvative drought resilient and water efficient perennial forage grasses for sustainable MEDiterranean farming systems (INNOMED). Coordinator: F. Volaire, Institut National de Recherche Agronomique Centre National de Recherches Scientifiques, Montpellier, France.

Examiner of a PhD thesis by M.T.A. Kalyar: Evaluation of sunflower (*Helianthus annuus*) breeding populations for heat resistance. University of Sargodha, Pakistan.

Examiner of a PhD thesis by I.A.K.Niazi: Evaluation of *Zea mays* x *Zea mexicana* hybrids for high fodder yield. University of Sargodha, Pakistan.

Consultant position to the Japanese Research Program on *Neotyphodium* spp. Fungal Endophyte/Grass Associations (coordinator: Dr. Suguru Saiga). Iwate University. Morioka, Japan.

(2) National, State, Local (1)

2009–2018 Member of Technical Advisory Committee to USDA-NRCS Plant Materials Center, Knox City, TX.

VIII. CITATION RECORD (24 March 2021).

(a) Google Scholar

	All	Since 2016
Citations	3,144	1,160
<u>h-index</u>	20	16
i10-index	27	21

Years publishing: 23 Average # citations per year: 136

(b) ResearchGate.net

<u>Citations:</u> 2,520 <u>Reads:</u> 15,881