

CURRICULUM VITAE

Name: Karyn Malinowski, Ph.D.

Academic Rank: Extension Specialist in Horse Management
(Equivalent to Professor)

Appointment: 80% Extension, 20% Research

Address: Rutgers University
Equine Science Center
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Citizenship: United States

Academic Degrees:

Ph.D., Rutgers University, New Brunswick, NJ. May 1986. Zoology.

M.S., Rutgers University, New Brunswick, NJ. May 1980. Animal Science.

B.S., Rutgers University, New Brunswick, NJ. May 1975. Animal Science.

Employment History:

Associate Director of the New Jersey Agricultural Experiment Station – July 1, 2002 through present.

Director – Equine Science Center, July 1, 2001 through present.

Director of Rutgers Cooperative Extension – July 1, 2002 through June 30, 2008.

Extension Specialist in Horse Management (equivalent to Professor), Rutgers Cooperative Extension; July 1, 1998 through present.

Interim Department Chair - Agricultural and Resource Management Specialists, July 1 - December 31, 1993.

Associate Extension Specialist in Horse Management (equivalent to Associate Professor), Rutgers Cooperative Extension; July 1, 1988 - 1998.

Assistant Extension Specialist in Horse Management, Rutgers Cooperative Extension; 1978 - 1988.

Honors and Achievements:

American Society for Animal Science – Equine Science Award, 2012
LeeAnne Pooler Unsung Hero Award by the US Harness Writers’ Association, 2012
Governor’s Trophy for Horseperson of the Year, 2009
Outstanding Woman of Somerset County, 2009
Friend of 4-H, 2009
Northeast Extension Directors’ Award of Excellence, 2008.
Rutgers Graduate School Lifetime Achievement Award, 2007.
Equal Opportunity Award, Rutgers Cooperative Extension, 2001.
Outstanding Equine Educator Award, Equine Nutrition and Physiology Society, 2001.
Marjorie Van Ness Award, American Horse Council, 2001.
Research Excellence and Impact Award, Cook College and NJAES, 2000.
Woman of Distinction, Delaware-Raritan Girl Scout Council, 2000.
Cook College Outstanding Alumni Award, 1998.
Cook College Executive Dean Team Building Award, 1997.
New York Farmers Club Award, 1995.
Diversity Award, Rutgers Cooperative Extension, 1994.
Outstanding Leadership Award, American Youth Horse Council, 1994.
Outstanding Service Award, National 4-H Horse Roundup, 1993.
FASP leave, January-July, 1992.
Outstanding Leadership Award, National 4-H Horse Roundup, 1992.
State Equine Chairman of the Year, 1991. Morris Animal Foundation.
Leadership Award, American Youth Horse Council. 1990
New Jersey 4-H Educator of the Year, 1984.

Scholarship:

Published Books:

Chapter: “Training Standardbred Trotters and Pacers,” Malinowski, K. and R. Avenatti. 2011. In: *Principles and Practice of Equine Sports Medicine: The Athletic Horse 2nd Edition*, Eds. D. Hodgson, K. H. McKeever, and C. McGowan, Saunders, Philadelphia.

Gottlieb, P.D., K. Sullivan, K. Malinowski, B. Schilling, and D. Orban-Brown. 2007. “The New Jersey Equine Industry 2007: Economic Impact.” New Jersey Agricultural Experiment Station.

Chapter: “A Delicate Balance: The Future of Horse Racing and the Preservation of the Equine Industry, Agriculture and Open Space in the Garden State,” Malinowski, K. 2006. In: *The State of the Garden State*, ed M.P. Riccards. Hall Institute of Public Policy.

Chapter: “Growth of Companion Animals,” Malinowski, K. and C.G. Scanes. 2003. In: *Biology of Growth in Domestic Animals*, ed C.G. Scanes. Iowa State Press.

Chapter: “Economic and Societal Impact of the Horse Industry,” Malinowski, K. and N.K. Luba. 2003. In: *International Impact of Animal Agriculture*, ed C.G. Scanes. Iowa State Press.

Chapter: Malinowski, K. 2000. Physiologische und biochemische Besonderheiten älterer Pferde

(Physiological and Biochemical Needs of the Aging Horse). *Das alternde Pferd, Besonderheiten und Bedürfnisse (The Aging Horse)*. 67-80, Arbeitsgruppe Pferd, Essen, Germany.

Malinowski, K. 1997. The Effects of Exercise and Stress on Nutrient Requirements of Equine Athletes. In: *The Veterinarian's Practical Reference to Equine Nutrition*. Purina Mills, Inc. and AAEP.

Horse Industry Handbook: A Guide to Equine Care and Management. 1994. American Youth Horse Council, Lexington, KY. Section chief; coordinated/edited with others the production of this text.

Chapters: Antoniewicz, R. J., M. R. Margentino, and K. Malinowski. 1994. Fire safety on horse farms. *Horse Industry Handbook: A Guide to Equine Care and Management*. pp 340-350, American Youth Horse Council, Lexington, KY.

Journal Articles (Refereed):

Liburt, N.R., M. N. Fugaro, K. Malinowski, E. K. Wunderlich, J. L. Zambito, D. W. Horohov, A. Betancourt, R. C. Boston, R. J. Geor, J. Onishi and K. H. McKeever. 2011. The effect of age and exercise training on insulin sensitivity, fat and muscle tissue cytokine profiles and body composition of old and young Standardbred mares. (Submitted to *Journal of Animal Science*).

Alusio, J.L., Liburt, N.R., Malinowski, K., McKeever, K.H. 2010. Training-induced alterations in rump fat thickness and plasma leptin concentration in young mature and old Standardbred mares. *Comparative Exercise Physiology* 7(3); 1-6.

Lehnhard, R.A., A. M. Szucsik, V. B. Balaskonis, K. Malinowski, and K. H. McKeever. 2010. The effect of training and detraining on plasma total carbon dioxide in Standardbred horses. *Comparative Exercise Physiology* 7(1); 15-17.

Malinowski, K., E. J. Shock, P. Rochelle, C.F. Kearns, P.D. Guirnalda, and K.H. McKeever. 2006. Plasma β -endorphin, cortisol, and immune responses to acute exercise are altered by age and exercise training in horses. *Equine Veterinary Journal Suppl.* 36:267-273.

Kearns, C.F., K.H. McKeever, and K. Malinowski. 2006. Changes in adiponectin and leptin are associated with changes in fat mass after clenbuterol treatment in horses. *Medicine and Science in Sports and Exercise*. 38:262-267.

Kearns, C.F., K.H. McKeever, V. Roegner, S. Brady and K. Malinowski. 2006. Adiponectin and leptin are related to fat mass in horses. *The Veterinary Journal*. 172:460-465.

Malinowski, K., C.F. Kearns, P.D. Guirnalda, V. Roegner and K.H. McKeever. 2004. Effect of chronic clenbuterol administration on immune function in horses. *Journal of Animal Science* 82:3500-3507.

Betros, C.L., K.H. McKeever, C.F. Kearns, and K. Malinowski. 2002. Effects of aging and training on maximal heart rate and VO₂max. *Equine Veterinary Journal Suppl.* 34:100-105.

Malinowski, K., C.L. Betros, L. Flora, C.F. Kearns and K.H. McKeever. 2002. Effect of training on age-related changes in plasma insulin and glucose. *Equine Veterinary Journal Suppl.* 34:147-153.

Guirnalda, P.D., V. Roegner and K. Malinowski. 2001. Effect of age and recombinant equine

somatotropin on immune function in aged female horses. *Journal of Animal Sciences* 79:2651-2658.

Kearns, C.F., K.H. McKeever, K. Malinowski, M.B. Struck, and T. Abe. 2001. Chronic administration of therapeutic levels of clenbuterol acts as a repartitioning agent. *Journal of Applied Physiology* 91: 2064-2079.

Horohov, D.W., A. Dimock, P. Guirnalda, R.W. Folsom, K.H. McKeever, and K. Malinowski. 1999. The effect of exercise on the immune response of young and old horses. *American Journal of Veterinary Research* 60:643647.

McKeever, K.H. and K. Malinowski. 1999. Endocrine response to exercise in young and old mares. *Equine Veterinary Journal Suppl.*30:561-566.

McKeever, K.H., K. Malinowski, R.A. Christensen, and H.D. Hafs. 1998. Chronic recombinant equine somatotropin (eST) administration does not affect aerobic capacity or exercise performance in geriatric mares. *The Veterinary Journal* 155:19-25.

McKeever, K.H. and K. Malinowski. 1997. Exercise capacity in young and old female horses. *American Journal of Veterinary Research* 58:1468-1472.

Malinowski, K., R.A. Christensen, A. Konopka, C.G. Scanes, and H.D. Hafs. 1997. Feed intake, body weight, body condition score, musculation and immunocompetence in aged mares given equine somatotropin. *Journal of Animal Science* 75:755-760.

Christensen, R.A., K. Malinowski, A.M. Massenzio, H.D. Hafs, and C.G. Scanes. 1997. Acute effects of short term fasting and refeeding on circulating concentrations of metabolites, insulin-like growth factor (IGF)-I, IGF binding proteins, growth hormone and thyroid hormones in adult horses. *Journal of Animal Science* 75:1351-1358.

Christensen, R.A., K. Malinowski, C.G. Scanes, and H.D. Hafs. 1997. Pulsatile release of somatotropin (ST) related to meal feeding, and ST response to secretagogues in horses. *Journal of Animal Science* 75:2770-2777.

Malinowski, K., R.A. Christensen, H.D. Hafs and C.G. Scanes. 1996. Age and breed differences in thyroid hormones, insulin-like growth factor-I and IGF binding proteins in horses. *Journal of Animal Science* 74:1936-1942.

Covalesky, M.E., C.R. Russoniello and K. Malinowski. 1992. Effects of show-jumping performance stress on plasma heart rate and behavior in horses. *Journal of Equine Veterinary Science* 12:244-248.

Horton, G.M.J., K. Malinowski, C. C. Burgher, and D.D. Palatini. 1991. The effect of space allowance and sex on blood catecholamines and cortisol, feed consumption and average daily gain in growing lambs. *Applied Animal Behavior Science* 32:197-204.

Malinowski, K., N. A. Hallquist, L. Helyar, A. R. Sherman, and C. G. Scanes. 1990. Effect of different separation protocols in mares and foals on plasma cortisol concentrations and cell-mediated immune response. *Journal of Equine Veterinary Science* 10:363-368.

Johnson, A.L. and K. Malinowski. 1986. Daily rhythm of cortisol, and evidence for a photoinducible

phase for prolactin secretion in non-pregnant mares housed under non-interrupted and skeleton photoperiods. *Journal of Animal Science* 63:169-175.

Malinowski, K., A.L. Johnson and C.G. Scanes. 1985. Effects of interrupted photoperiods on the induction of ovulation in anestrous mares. *Journal of Animal Science* 61:951-955.

Web-based articles:

Malinowski, K. 2010. Response to the Commission on the Future of Sports, Gaming and Horse Racing in New Jersey. The Hall Institute of Public Policy, www.hallnj.org.

Malinowski, K. and R. A. Avenatti. 2009. Impact of slot machines/video lottery terminals (VLTs) on the economy, horse racing and breeding industry, agriculture and open space in states/provinces where they exist: Why is this important for New Jersey? The Hall Institute of Public Policy, www.hallnj.org.

Malinowski, K. 2006. A delicate balance: the future of horse racing and the preservation of the equine industry, agriculture and open space in the Garden State. The Hall Institute of Public Policy, www.hallnj.org.

Abstracts and Refereed Proceedings:

Malinowski, K., T.J. Cody, A. Palkhiwala, and W. Haduch. 2011. Holy Hoofprints: is that a horse in my science class?! Rutgers Equine Science Center launches Equine Science 4 Kids. *Journal of Equine Veterinary Science* 31:341-342.

Gottlieb, P.D., K. Sullivan, K. Malinowski, B. Schilling, and D. Orban-Brown. 2009. Customizing the definition of an agricultural industry for policy analysis: the case of New Jersey equine. *Proceedings of the Northeastern Agricultural and Resource Economics Association*, Burlington, VT, June 8, 2009.

Williams, C.A., M. Westendorf, C. Obropta, S.L. Ralston, W. Bamka, and K. Malinowski. 2009. Development of an equine best management practice demonstration working horse farm. *Journal of Equine Veterinary Science* 29 (5):467-468.

Williams, C. A. and K. Malinowski. 2005. A unique website for equine youth and extension in New Jersey. *Journal of Equine Veterinary Science* 19:247-248.

McKeever, K.H., A.M. Szucsik, V.B. Balaskonis, C.L. Betros, C.F. Kearns, and K. Malinowski. 2002. Effect of management practices and training on plasma tCO₂ concentration in horses. *American Society of Animal Science/Canadian Society of Animal Science International Meeting*, Quebec, PQ.

Malinowski, K., E. Shock, V. Roegner, P. Rochelle, C. Kearns, P. Guirnalda, and K. McKeever. 2002. Age and exercise training alter plasma Beta-endorphin, cortisol, and immune parameters in horses. 2002. *American Society of Animal Science/Canadian Society of Animal Science International Meeting*, Quebec, PQ.

Malinowski, K., C.L. Betros, L. Flora, and K.H. McKeever. 2002. Effect of training on age-related changes in plasma insulin and glucose in horses. *6th International Conference on Equine Exercise Physiology*, Lexington, KY.

- Betros, C.L., K.H. McKeever, C.F. Kearns, and K. Malinowski. 2002. Effects of aging and training on maximal heart rate and VO₂max in horses. *6th International Conference on Equine Exercise Physiology*, Lexington, KY.
- Struck, M.B., K.H. McKeever, C.F. Kearns, K. Malinowski. 2001. Therapeutic levels of clenbuterol act as a repartitioning agent in the Standardbred mare. *Medicine and Science in Sport and Exercise* 33:S:338.
- Malinowski, K. C.F. Kearns, V. Roegner, P.D. Guirnalda and K. H. McKeever. 2001. Effect of chronic clenbuterol administration and exercise training on immune function in female Standardbred horses. *Proceedings of the 17th Annual Equine Nutrition and Physiology Symposium* p 258. Lexington, KY.
- Malinowski, K. 2001. How to Get Involved in the Horse Industry and to Have an Impact. *Proceedings "Horses 2001"* p 69. Cornell University, April 7-8.
- Kearns CF, K.H. McKeever, and K. Malinowski. 2001. Chronic clenbuterol administration decreases aerobic performance in Standardbred mares. *Medicine and Science in Sports and Exercise*.
- Struck M, K.H. McKeever, C.F. Kearns, and K. Malinowski. 2001. Therapeutic levels of clenbuterol act as a repartitioning agent in the Standardbred mare. *Medicine and Science in Sports and Exercise*.
- McKeever, K.H., C.F. Kearns, and K. Malinowski. 2000. Reduction in plasma volume and alterations in hemodynamic control following chronic clenbuterol administration. *Proceedings 20th Association of Equine Sports Medicine National Meeting*, 20:47.
- Malinowski, K., C.F. Kearns, V. Roegner, P. Guirnalda and K.H. McKeever. 2000. Effect of chronic clenbuterol administration and exercise training on immune function in female Standardbred horses. *Proceedings 20th Association of Equine Sports Medicine National Meeting*, 20:50.
- Struck M, McKeever KH, Kearns CF, Malinowski K. 2000 Therapeutic levels of clenbuterol act as a repartitioning agent in the Standardbred mare. *Proceedings of the Association of Equine Sports Medicine National Meeting*, September, New Brunswick, NJ.
- McKeever KH, Kearns CF, Malinowski K. 2000 Reduction in plasma volume and alterations in hemodynamic control following chronic clenbuterol administration. *Proceedings of the Association of Equine Sports Medicine National Meeting*, September, New Brunswick, NJ.
- Malinowski K, Kearns CF, Guirnalda PD, McKeever KH. 2000. Effect of chronic clenbuterol administration and exercise training on immune function in female Standardbred horses. *Proceedings of the Association of Equine Sports Medicine National Meeting*, September, New Brunswick, NJ..
- Guirnalda, P.D., V. Roegner and K. Malinowski. 2000. Effect of age and equine somatotropin treatment on immune function in female horses. *Journal of Animal Science* 78 (Suppl. 1):129.
- Horohov, D.W., P. Guirnalda, A. Dimock, R.W. Folsom, K.H. McKeever, and K. Malinowski. 1999. The effect of exercise on the immune response of young and old horses. *Proceedings of the 16th Equine Nutrition and Physiology Society Symposium, Raleigh, North Carolina*.
- Malinowski, K., R.A. Christensen, C.G. Scanes, and H.D. Hafs. 1997. Diurnal profile of somatotropin (ST) secretion and ST response to ST Releasing Hormone in horses. *Proceedings of the 15th Equine*

Nutrition and Physiology Society Symposium, Fort Worth, Texas.

Christensen, R.A., K. Malinowski, and H.D. Hafs. 1997. Pulsatile release of somatotropin (ST) associated with meal feeding and in response to an ST secretagogue in horses. *Proceedings of the 15th Nutrition and Physiology Society Symposium, Fort Worth, Texas.*

McKeever, K.H. and K. Malinowski. 1997. Exercise capacity in young and geriatric female horses. *Proceedings of the 15th Equine Nutrition and Physiology Society Symposium, Fort Worth, Texas.*

Malinowski, K., R.A. Christensen, S.H. Bokman, and H.D. Hafs. 1997. Chronic effects of equine somatotropin (eST) on plasma somatotropin and insulin-like growth factor (IGF-I) concentrations and ultrasonic muscle thickness in aged mares. *Journal of Animal Science (Suppl. 1).*

Ralston, S.L., K. Malinowski, and R.A. Christensen. 1997. Body weight, condition and postprandial energy metabolites in aged mares following daily injection with equine somatotropin. *Journal of Animal Science (Suppl. 1).*

McKeever, K.H., K. Malinowski, R.A. Christensen, and H.D. Hafs. 1997. Chronic recombinant equine somatotropin (eST) does not affect aerobic capacity or exercise performance in geriatric mares. *Journal of Animal Science (Suppl. 1).*

Ralston, S.L., R.A. Christensen, K. Malinowski, C.G. Scanes, and H.D. Hafs. 1996. Chronic effects of equine growth hormone (eGH) on intake, digestibility and retention of nutrients in aged mares. *Journal of Animal Science 74 (Suppl. 1):194.*

Malinowski, K., R.A. Christensen, A. Konopka, C.G. Scanes, and H.D. Hafs. 1996. Chronic effects of equine growth hormone (eGH) on cell-mediated immunocompetence in aged mares. *Journal of Animal Science (Suppl. 1):227.*

Christensen, R.A., K. Malinowski, S.L. Ralston, and H.D. Hafs. 1996. Chronic effects of equine growth hormone (eGH) on postprandial changes in plasma glucose, nonesterified fatty acids and urea nitrogen in aged mares. *Journal of Animal Science (Suppl. 1):226.*

Christensen, R.A., K. Malinowski, S.L. Ralston, C.G. Scanes, and H.D. Hafs. 1996. Chronic effects of equine growth hormone (eGH) on postprandial changes in plasma insulin, insulin-like growth factor-I, and thyroid hormones in aged mares. *Journal of Animal Science (Suppl. 1):226.*

Radecki, S.V., R.A. Christensen, K. Malinowski, C.G. Scanes, and H.D. Hafs. 1996. Insulin-like growth factor-I (IGF-I) and IGF binding proteins (IGFBP) during 24 hours after injection of equine growth hormone (eGH) in mares. *FASEB Journal 10:A769.*

Christensen, R.A., S.V. Radecki, K. Malinowski, C.G. Scanes, and H.D. Hafs. 1996. Chronic effects of equine growth hormone (eGH) on insulin-like growth factor (IGF-I) and IGF binding proteins (IGFBP) in mares. *FASEB Journal 10:A769.*

Burgher, C.C., K. Malinowski, J.M. Fagan, and E.J. Yurkow. 1995. Non-steroidal and steroidal anti-inflammatory drug-induced immunosuppression in horses. *Proceedings of the 14th Equine Nutrition and Physiology Society Symposium, Cal Poly Technical State University, Pomona.*

Malinowski, K. 1995. Careers in the green industry: Youth sow seeds for their futures. *Proceedings of the 14th Equine Nutrition and Physiology Society Symposium*, Cal Poly Technical State University, Pomona.

Malinowski, K., A.M. Massenzio, R.A. Christensen, H.D. Hafs and C.G. Scanes. 1995. Acute effects of short term starvation and refeeding on circulating concentrations of thyroid hormones and insulin-like growth factor-I in adult horses. *Journal of Animal Science* 73 (Suppl. 1):184.

Christensen, R.A., K. Malinowski, H.D. Hafs, and C.G. Scanes. 1995. Changing blood concentrations of thyroid hormones and insulin-like growth factor-I during postnatal growth, maturation, and aging in female horses. *Journal of Animal Science* 73 (Suppl. 1):142.

Burgher, C.C., K. Malinowski, J.M. Fagan, and E.J. Yurkow. 1994. In vivo acute and chronic glucocorticoid administration on immunocompetence in horses. *Journal of Animal Science* 77 (Suppl. 1):144.

Malinowski, K., J. T. Potter and J.E. Dinger. 1993. Effects of Exercise and Competition on Plasma Cortisol and Lactate Concentrations and Heart Rate on Polo Ponies. *Proceedings of the 13th Equine Nutrition and Physiology Society Symposium*, University of Florida, Gainesville.

Malinowski, K., J.T. Potter and J.E. Dinger. 1993. Temporal Variation of and Effects of Exercise on Lymphocyte Proliferative Response to Phytohemagglutinin in Polo Ponies. *Proceedings of the 13th Equine Nutrition and Physiology Society*, University of Florida, Gainesville, Florida.

Malinowski, K. 1993. Reducing risk factors and liability premiums on horse farms. *Proceedings Southern Regional 4-H Youth Leaders and American Youth Horse Council Symposium*, North Carolina State and Clemson Universities, Charlotte.

Malinowski, K. 1993. Reducing risk factors and liability premiums on horse farms. *Proceedings North America Riding for the Handicapped Annual Conference*, Lexington, Kentucky.

Malinowski, K., M.R. Margentino and Z. Helsel. 1991. Management procedures to ensure horse farm safety and to reduce liability costs and risk to owners. *Surgeon General's Conference: Agricultural Safety and Health*, Iowa State University.

Malinowski, K. 1991. Advances in Equine Reproduction. *Proceedings of the 12th Equine Nutrition and Physiology Society Symposium*, University of Calgary, Alberta, Canada.

C. Russoniello, S.P. Racis, S.L. Ralston, K. Malinowski. 1991. Effects of show-jumping performance stress on hematological parameters and cell-mediated immunity in horses. *Proceedings of the 12th Equine Nutrition and Physiology Society Symposium*, University of Calgary, Alberta, Canada.

Covalesky, M., C. Russoniello and K. Malinowski. 1991. Effects of show-jumping performance stress on plasma cortisol and lactate concentrations and heart rate and behavior in horses. *Proceedings of the 12th Equine Nutrition and Physiology Society Symposium*, University of Calgary, Alberta, Canada.

Horton, G.M.J., K. Malinowski and J.A. Talbot. 1990. Effect of confinement on performance and physiological indicators of stress in lambs. *Journal of Animal Science* 68 (Suppl. 1): 260.

Malinowski, K., N.A. Hallquist, L. Helyar and A.R. Sherman. 1989. Effect of different separation protocols on plasma cortisol and cell-mediated immune response in mares and foals. *Proceedings of the 11th Equine Nutrition & Physiology Society Symposium*, Oklahoma State University.

Malinowski, K. 1987. Effects of training/exercise/stress plasma cortisol and lactate in Standardbred yearlings. *Journal of Animal Science* 65 (Suppl.1): 222.

Malinowski, K. 1987. State of the New Jersey equine industry - "Urbanization of Animal Agriculture of the Garden State". *Proceedings of the 10th Equine Nutrition and Physiology Society Symposium*, Colorado State University, Fort Collins, Colorado.

Weiner, L. and K. Malinowski. 1987. Progress report on the development, structure and benefits of the 4-H targeted education in equine management (TEEM) program in the state of New Jersey. Model for 4-H youth training and participation. *Proceedings of the 10th Equine Nutrition and Physiology Society Symposium*, Colorado State University, Fort Collins, Colorado.

Malinowski, K. and A.L. Johnson. 1983. The effects of skeleton photoperiods on the induction of estrus in anestrus mares. *Proceedings of the 9th Equine Nutrition and Physiology Society Symposium*, University of Kentucky, Lexington, Kentucky.

Johnson, A.L. and K. Malinowski. 1983. Influence of photoperiod on the daily rhythm of plasma cortisol in the mare. *Journal of Animal Science* 57(Suppl. 1): 173.

Malinowski, K. and A.L. Johnson. 1982. Effects of skeletal photoperiods on the induction of estrus and ovulation in the mare-preliminary results. *Eastern Regional Conference on Comparative Endocrinology*, University of Delaware, Newark, Delaware.

Reviews and Proceedings:

Malinowski, K. Overview of the horse industry in the US and the State of New Jersey. 2003. Proceedings New Jersey Horse Industry Summit, Cook College/NJAES, New Brunswick, NJ

Malinowski, K. 2002. Physiology of Aging in Horses. *Alberta Horsemen's Conference*, Red Deer, Alberta, Canada.

Ralston, S.L., K. Malinowski, R.A. Christensen and L. Breuer. 2001. Digestion in aged horses-revisited. *Journal of Equine Veterinary Science* 21 (7): 310-311.

Ralston, S.L., K. Malinowski, R.A. Christensen and L. Breuer. 2000. Apparent digestion of hay and grain rations in aged horses. *Kentucky Equine Research Nutrition Conference*, Lexington, KY.

Journal Articles (Non-Refereed) and Popular Press:

Since 1980 Malinowski has provided over 100 interviews and featured stories with reporters from the printed media such as *The NY Times*, *The Newark Star Ledger* and a variety of popular press periodicals such as *Equus*, *HoofBeats*, *The Horse*, *Horse News*, and *The New Jersey Farmer*.

Since 2005 Malinowski has been responsible for producing the Equine Science Center's Annual Report to Stakeholders.

Podcasts:

Malinowski was responsible for the production of 14 Podcasts for the Equine Science Center website. January, 2009. <http://esc.rutgers.edu/publications/podcasts.htm>

Videotapes and DVDs:

Orban-Brown, D. and K. Malinowski. 2007. The New Jersey Equine Industry- 2007. Produced by the Equine Science Center.

Malinowski, K. and H. Gilroy. 2000. The Equine Science Center of Excellence at Rutgers University.

Malinowski, K. 1991. Model Horse Farm Safety Video.

Malinowski, K. 1990. Judging 4-H Horse Shows and Competitions.

Malinowski, K., V. Sisco, and V. Abbatiello. 1987. Conformation Evaluation of the Equine Athlete: A Preparation for Judging Contests. Rutgers Cooperative Extension, Rutgers University.

Malinowski, K. 1987. Seasonal Reproduction in Mares. In cooperation with the Standardbred Breeders & Owners Association of New Jersey.

Websites:

Malinowski is responsible for all content on “*Equine Science 4 Kids*,” the youth component of the Equine Science Center’s website.

Virtual Tours:

Malinowski was responsible for the development of the Equine Science Center’s virtual tour series in collaboration with Center faculty and staff. The Ryders Lane Demonstration Horse Farm in collaboration with Carey Williams and Michael Westendorf is the first in the series. January, 2010.

http://www.esc.rutgers.edu/rlp/rl_virtual_tour.htm

Avenatti, R. A., K. H. McKeever, and K. Malinowski. 2010. Virtual Tour of the Equine Exercise Physiology Laboratory. http://www.esc.rutgers.edu/exercphyslab/TreadmillLab_virtual_tour.htm

Webinars:

The Impact the Demise of Horse Racing in New Jersey will have on You! November 2, 2009.

Physiology of Aging in Horses. March 22, 2011.

Media Presentations

In July, 2010 Malinowski conducted 45 interviews for radio, television and the press on the future of racing in New Jersey.

ESPN. October 16, 2009.

Good Morning America. ABC News. June 5, 2008.

The Petstop Television Show. News12NJ. April 12 and May 17, 2006; April 29, 2007.

Extension Publications (Fact Sheets)

Malinowski has authored over 50 Extension Fact Sheets.

Grants: Led the industry effort which resulted in Cook College and the New Jersey Agricultural Experiment Station receiving in 1992 **\$1.2 million for *Strategic Initiatives*** from the state legislature. This money was awarded to the New Jersey Agricultural Experiment Station annually; (\$900,000 per year) until 2010. The equine science program received **\$300,000** per year from this allotment. In 1997, the excellence of the equine science program was recognized with a **\$267,000** bequest from the Doris C. Murphy estate. Malinowski has also raised in excess of \$900,000 towards the \$3million endowment of the Center.

External:

New Jersey Equine Advisory Board, New Jersey Department of Agriculture; to be used for youth development programs. \$12,500 per year, October, 1978 to 1987 totaling \$100,000. 1988-89 \$13,500. 1990-91 \$14,500; 1992-93 \$16,500; 1993-94 \$18,500; 1994-2001 \$16,500 annually, totaling \$132,500.

New Jersey Equine Advisory Board, New Jersey Department of Agriculture for equine research; \$2,000 per year, 1981-1983; totaling \$6,000. 1988-91 \$4,000 per year totaling \$12,000; 1992-2001 \$5,000 per year, totaling \$50,000.

Effects of Exercise and Competition on Plasma Cortisol and Lactate Concentrations and Heart Rate on Polo Ponies. Fellowship, University of Connecticut, 1992.

Internal Competitive:

Effect of Age and Exercise Training on Immune Function and Plasma Insulin and Glucose in Female Horses. Principal Investigator. State Equine Initiative 2000-20001. \$35,000.

Effect of Exercise Training and Clenbuterol on Immune Function in Standardbred Horses. Principal Investigator. State Equine Initiative 1999-2000. \$55,000.

Effect of Recombinant Equine Somatotropin on Immunocompetence in Aged Horses. Principal Investigator (with David W. Horohov, Louisiana State University). State Equine Initiative 1998-99. \$30,000.

Effect of Exercise on the Immune Response of Aged Mares. Principal Investigator (with David W. Horohov, Louisiana State University). State Equine Initiative 1997-98. \$36,128.

Musculature and Aerobic Capacity in Aging Horses Given Somatotropin for Twelve Weeks; Principal Investigator (with Post-doctoral fellow, R. A. Christensen, S. H. Bokman, K.H. McKeever and H.D. Hafs). State Equine Initiative 1996-97. \$35,000.

Equine Growth Hormone (Somatotropin) in Horses, (1) Effects of Growth, Metabolism and Immunocompetence in Horses; and (2) Control of Secretion; Principal Investigator (with Post-doctoral fellow, R.A. Christensen, H.D. Hafs, S.L. Ralston and C.G. Scanes). State Equine Initiative 1995-96. \$52,750.

Effects of Growth Hormone Releasing Factor and Growth Hormone Secretagogues on Growth Hormone (Somatotropin) Release, Growth, Metabolism and Immunocompetence in Horses; Principal Investigator (with Post-doctoral fellow, R.A. Christensen, H. D. Hafs and C.G. Scanes). State Equine Initiative 1994-95, \$60,000.

Glucocorticoid Induced Immunosuppression in Horses and the Susceptibility to Infection; Principal Investigator (with J.M. Fagan; Ph.D. advisee, Clint Burgher). State Equine Initiative 1993-94. \$25,000.

Effects of the Antigenic Dose and Timing of Equine Viral Rhinopneumonitis Vaccines (Equine herpesvirus) and of Immunological Tolerance (antibody suppression) in Neonates and Young Growing Horses; Principal Investigator. State Equine Initiative 1993-94. \$20,000.

Effect of Steroidal Anti-inflammatory Use on Susceptibility to Infection in Horses; Principal Investigator (with PhD advisee, Clint Burgher). State Equine Initiative 1992-93. \$55,000.

Outside Contracts:

Impact of Equine Operations on the Environment – Education Program. January 2010-March 2012. PI; \$150,000.

Economic Impact of the New Jersey Equine Industry. PI; with Gottlieb and Orban-Brown. 2006. \$35,000. NJ Department of Agriculture.

Economic Impact of the New Jersey Equine Industry. PI; with Gottlieb and Orban-Brown. 2006. \$25,000. NJ Sports and Exposition Authority.

Economic Impact of the New Jersey Equine Industry. PI; with Gottlieb and Orban-Brown. 2006. \$25,000. Standardbred Breeders and Owners Association of New Jersey.

Economic Impact of the New Jersey Equine Industry. PI; with Gottlieb and Orban-Brown. 2006. \$25,000. Thoroughbred Breeders Association of New Jersey.

Effects of Equine Somatotropin (ST) on Body Function, Metabolism, Granulocytosis, and Aerobic Capacity Function in Aging Horses; Principal Investigator (with Post-doctoral fellow R.A. Christensen, K.H. McKeever, S.L. Ralston, and H.D. Hafs. 1996. \$92,590.00. BresaGen Limited.

Effect of Equine Somatotropin on Condition, Metabolism and Immunocompetence in Aging Horses; Principal Investigator (with Post-doctoral fellow R.A. Christensen, S.L. Ralston, H.D. Hafs, and C.G. Scanes) 1995. \$40,000. Bresatec Limited.

Foundation and Industry Support:

More than 50 horses, solicited from New Jersey horse owners and breeders, have been obtained since the start of the New Jersey Agricultural Experiment Station broodmare herd in 1981; valued at **\$100,000**.

2011 Sponsorships for the tenth anniversary of the Equine Science Center celebration, **\$100,000.**
2009 Sponsorships for Horses 2009; **\$43,735.**
2008 Donations to the Equine Science Center for the Endowment **\$900,000.**
2007 Sponsorships for Horses: 2007; **\$50,000.**
2003 Sponsorships for Horses: 2003; **\$22,500.**
2003 Donation to the Equine Science Center from Dick Hale; **\$10,000.**
2003 Donation to the Equine Science Center from Dr. and Mrs. William Bauer; **\$10,000**
2003 Donation of four stallion breeding services valued at **\$14,500.**
2002 Bernice Barbour Foundation; **\$6,400.**
2002 Donation to the Equine Science Center from Dr. and Mrs. William Bauer; **\$10,000**
2001 Donation to the Equine Science Center from Dr. and Mrs. William Bauer; **\$10,000**
1996 Grant-in-Aid, BresaGen, Ltd. **\$32,400.**
1995 Procured 25 geriatric mares valued at **\$25,000.**
1995 ESDCTA - **\$500.**
New Jersey Horse Council; \$500 per year, 1981-96; totaling **\$8,000.**
Industry support of the 1991-92 National 4-H Horse Events - **\$46,000.**
New Jersey Department of Agriculture Support of Horse Management Seminar. \$1500 per year 1990-01 totaling **\$18,000.**
1990. American Saddlebred Association of New Jersey - **\$100.00.**
1990. Standardbred Breeders and Owners Association; **\$6,000.**
1990. Boxwood Farm; **\$1,000.**
Industry support of the 1989 American Youth Horse Council Leaders' Symposium - **\$11,000.**
1988. Standardbred Breeders & Owners Association, **\$3,000.**
1986. International Arabian Horse Association, **\$300.**
1981. New Jersey Thoroughbred Breeders Association, **\$500.**

Teaching Assignments

Independent Study Supervised

Advise independent research for 4-6 undergraduate students per semester. (Special Problems in Animal Sciences: 11-067:494-495).

Member of the graduate faculty of the Department of Animal Sciences.

Major professor one Post-doctoral fellow (Rial A. Christensen), one Ph.D. candidate (Ryan Avenatti-ongoing), three masters candidates (Cynthia Betros, Patrick Guirnalda and Christina Russoniello); committee member for five doctoral candidates and five masters candidates. Major professor for five Cook Honors Scholars (Elsa Shock, Penny Rochelle, Lori Flora, Maria Covalesky, and Allison Massenzio).

Developed in 2008 a new two-day Winter Session course entitled “Developing Future Leaders for the Equine Industry”. The course is geared toward individuals working to become involved in New Jersey’s equine industry. The course is team taught by Malinowski and Mary Nikola, Ed.D., director of leadership and organizational development at the New Jersey Agricultural Experiment Station. Topics include the economic value of the equine industry, networking, relationship-building, decision-making strategies, leadership practices and behaviors, building coalitions, and industry management.

Invited Lectures International:

World Trotting Conference, August 4, 2011. "Importance of Quantifying the Horse Industry." Jersey City, New Jersey.

Dorothy Russell Havemeyer Foundation Equine Geriatric Workshop, October 24-27, 2010. "Exercise and Age-Induced Changes in Immune Response are not Altered by Equine Somatotropin Administration in Horses." Cambridge, Massachusetts.

Dorothy Russell Havemeyer Foundation Equine Geriatric Workshop, October 24-27, 2010. "Plasma Beta-Endorphin, Cortisol and Immune Response to Acute Exercise are Altered by Age and Exercise Training in Horses." Cambridge, Massachusetts.

Alberta Horseman's Conference, January 12-13, 2002. Alberta, Canada. "Physiology of Aging in Horses."

American Society of Animal Science Meeting, July 26, 2000. Baltimore, MD. "Changing Needs in Animal Science Extension: How Horses Fit."

Sport Horse Conference. March, 2000. Bonn, Germany. "Physiology of Aging in the Horse."

American Horse Council. September, 1998. Washington, D.C. "State of the Horse Industry: State Horse Councils Committee Symposium."

American Society of Animal Science. July, 1998. Denver, Colorado. "Potential applications for recombinant equine somatotropin for geriatric horses". **Chaired symposium.**

International Livestock Congress. February, 1998. Houston, Texas. "How to Market Yourself in the Horse Industry: a panel of women at the top level of the horse industry."

North American Riding for the Handicapped Association. February, 1997. Atlantic City, New Jersey. "Unbridled Opportunities: Careers in the Horse Industry."

American Society of Animal Science Equine Symposium. Annual Meeting, July 1996, Rapid City, SD. "Survival of Equine Research: Funding Opportunities."

North American Riding for the Handicapped Association. November 15, 1993. Lexington, KY. "Reducing Risk Factors on Horse Farms."

American Horse Council Convention. June 18, 1991. Washington, DC. "Stress Management for Equine Athletes."

Equine Nutrition and Physiology Society Horse Industry Seminar. June 8, 1991. University of Calgary. "Recent Advances in Equine Reproduction."

North American Riding for the Handicapped Association annual meeting. November 1, 1991. Los Angeles, CA. "Stress Management for Equine Athletes."

Invited Lectures National:

Community College of Central Florida. February, 2010. "Physiology of Aging in Horses."

American Riding Instructor Certification Program. November 1994. Mt. Holly, NJ. "Stress Management for Equine Athletes."

American Riding Instructor Certification Program. NJ. November 18, 1993. Mount Holly, NJ. "Stress Management for Equine Athletes."

American Youth Horse Council Leaders' Symposium. March 2-3, 1991. Pomona, CA. "Careers in the Horse Industry."

American Riding Instructors Certification Program. November 15, 1990. Cherry Hill, NJ. "Stress Management in Performance Horses."

American Youth Horse Council Leaders Symposium. April 21-22, 1990. Madison, Wisconsin. "Stress Management in Performance Horses."

American Judging Association East Coast Horse Judging Seminar. February 2-4, 1990. Cherry Hill, NJ. "Judging 4-H Horse Shows and Competitions."

Tennessee Walking Horse Breeders & Exhibitors Seminar. January, 1988. Cook College, New Brunswick. "Hormonal Control of the Estrous Cycle in Mares."

Invited Lectures Regional/State:

Pennsylvania Horse Conference. March 14, 2012. "Importance of Quantifying the Impact of the Horse Racing Industry: Challenges for Sustainability."

Careers Summer Institute. July 12, 2011. "Careers in Equine/Animal Sciences."

New Jersey Gaming Industries Forum. March 31, 2011. "Impact of the Horse Racing Industry in New Jersey and the Preservation of Traditional Agriculture and Open Space." Hall Institute of Public Policy, Newark, NJ.

Monmouth County Greentable. March 1, 2011. "Why Horse Racing is Critical to Monmouth County."

State of New Jersey Legislative Gaming Summit. September 29, 2010. "Impact of the Horse Racing Industry in New Jersey and the Preservation of Traditional Agriculture and Open Space." East Rutherford, NJ.

Racing Summit – Perretti Farms. September 27, 2010. “Impact of the Horse Racing Industry in New Jersey and the Preservation of Traditional Agriculture and Open Space.”

Hunterdon County Business Association. July 28, 2010. “Impact of the Horse Racing Industry in New Jersey and the Preservation of Traditional Agriculture and Open Space.”

Douglass Women in Science Lecture. November 21, 2009. “Women in Animal Sciences.”

Centenary College. November 12, 2009. “Careers in Equine Science.”

Morris Museum. October 29, 2009. “The Impact of the Horse Industry on the Preservation of Open Space in New Jersey.”

Governor’s Commission on the Horse Racing Industry. September 9, 2009. “The Impact of the Horse Racing Industry in New Jersey and the Preservation of Traditional Agriculture and Open Space.”

Horse in Harness Expo. March 14, 2009. “Challenges facing the harness racing industry – where is the plan?” Delaware Valley College, Doylestown, PA.

National Agricultural National Agricultural Statistics Service. June 29, 2006. Enumerator Training Session Regarding the New Jersey Equine Industry. Trenton, New Jersey.

New Jersey Horse Council. June 7, 2006. Stone Tavern, New Jersey. “Delicate Balance Between the Horse Racing Industry in New Jersey and the Preservation of Traditional Agriculture and Open Space.”

Women’s League of Rutgers University. May 24, 2006. New Brunswick. “Importance of the New Jersey Horse Industry and the Equine Science Center.”

Rossmoor Cultural Society. May 27, 2005. Jamesburg, New Jersey. “The Future of Agriculture in the Garden State: Importance of the New Jersey Equine Industry”.

Farm Credit Service Agency. September 13, 2004. Saratoga, New York. “Effect of Alternative Gaming on the Horse Racing Industry, Land Value and Agriculture in the Northeast.”

Philadelphia Society for the Promotion of Agriculture. September 4, 2003. Philadelphia, Pennsylvania. “Socioeconomic Impact of the Equine Industry: Redefining Agriculture.”

Horses: 2003. March 31, 2003. Rutgers University, New Brunswick, New Jersey. “State of the United States Horse Industry.”

Rutgers Cooperative Extension Pasture Management Series. July 19, 2002. Showplace Farms, Manalapan, New Jersey. “Update on the Equine Science Center.”

American Bankers Insurance Company. February 13, 2002. Phoenix, AZ. “Reducing Liability on Horse Farms”.

Horses: 2001. April 6-7, 2001. Cornell University, Ithaca, New York. “How to get Involved in the Horse Industry and Make an Impact.”

Rutgers Cooperative Extension Horse Management Seminar. February 20, 2001. Rutgers University, New Brunswick, NJ. "Effect of Aging on Immune Function in Horses."

Zion Baptist Church. September, 1999. Philadelphia, PA. "Agriculture in the 21st Century: Careers in Animal Science."

Michigan Horse Expo. March, 1999. Lansing, MI. "Careers in the horse industry."

Maryland Horse Expo. January, 1999. Timonium, MD. "Care and management of the aging horse."

Central Jersey Carriage and Driving Society. August, 1998. Clarksburg, NJ. "Stress management for equine athletes."

New York State Horse Council Annual Meeting. November 1996. Binghamton, NY. "Role of Land Grant Institutions in State Horse Councils."

Department of Animal Science and Department of Veterinary Science, July 1996. University of Kentucky, Gluck Center, Lexington. "Equine Somatotropin: Potential Applications for the Horse Industry."

Eastern States Dressage and Combined Training Association. February 1995. Cook College, New Brunswick. "Stress Management for Equine Athletes."

Ft. Washington EQXPO. February, 1995. Philadelphia, PA. "Animal Welfare Concerns for the Horse Industry."

Pocono Horse Council. September 26, 1993. Bethlehem, PA. "Stress Management for Equine Athletes."

Southwest Pennsylvania Horsemen's Association. March 27, 1993. Pittsburgh, PA. "Stress Management for Equine Athletes."

Kansas State Horsemen's Conference. March 6, 1993. Kansas State University, Manhattan, Kansas. "Advantages of Belonging to a State Horse Council."

Alberta Horse Breeders and Owners Conference. January 16-17, 1993. Alberta, Canada. "Stress and the Young Horse."

University of Connecticut Horse Management Symposium. March 20, 1992. Storrs, CT. "Stress Management for Equine Athletes."

Michigan Horse Council Horse Expo. March 15, 1992. Lansing, MI. "Stress Management for Equine Athletes."

Department of Animal Sciences, University of Connecticut. February 7, 1992. Storrs, CT. "Physiological Responses to Physical and Psychological Factors Incurred During Training and Competition in Equine Athletes."

New Jersey Mosquito Control Association, Inc. Seventy-Eighth Annual Meeting. April 3, 1991.

Atlantic City, NJ. "Scope of the Equine Industry and Update of Encephalitis and Lyme Disease Statistics."

University of Maryland Horse Symposium. November 17, 1990. Baltimore, MD. "Stress Management for Equine Athletes."

Annual Horse Symposium. October 28, 1989. Stony Brook, Long Island, NY. "Effects of Exercise & Training/Management Practices on Stress Levels in Horses."

Standardbred Breeders and Owners Association Symposium. July 6, 1989. Freehold Raceway, Freehold, NJ. "Effects of Weaning on Stress Levels in Mares and Foals."

New Jersey Saddlebred Horse Association. February, 1988. Pittstown, NJ. "Stress Management of Horses in Training."

Equus Exposition at Garden State Racetrack. October, 1987. Cherry Hill, NJ. "Equine Reproductive Physiology."

Standardbred Breeders and Owners Association Seminar. July, 1987, Cook College, New Brunswick. "Seasonal Reproduction in Horses."

Princeton Agricultural Association. September, 1986. Pennington, NJ. "The Equine Industry in New Jersey: An Overview."

New Jersey Horse Council Horse Management Seminar. February 1986. Cook College, New Brunswick. "Artificial Control of the Estrous Cycle in Mares."

Service to Professional Organizations:

Member Program Committee – FAIR 2012

External Examiner, University of Limerick. 2011-2014.

External Examiner, Ph.D. thesis defense, Bronwynne L. Winton. 2008. A Unique Rurality: Exploring the role of the Horse Farm in the Post-Productivist Rural Landscape. University of Guelph.

Member of the Extension Committee on Organization and Policy (ECOP) for NASULGC. 2002-2008.

Chair, ECOP Personnel Sub-committee. 2006.

Scientific Review Member – Horses and Humans Research Foundation 2008-present

Member ASAS journal review panel, endocrinology and physiology section

Member, Board of Directors, Horse Industry Alliance, 1999-2002.

Chair, American Society of Animal Science Horse Program, 1998.

Chair, American Horse Council State Horse Council Committee, 1996-2000.

Board of Directors, Equine Nutrition & Physiology Society, 1995-01

Program Committee, Horses: American Society of Animal Science, 1995. **Chair-1998**

President, American Youth Horse Council, 1992-94.

Member National 4-H Horse Roundup Committee

Co-chair the Eastern National 4-H Horse Bowl.

Chair, Eastern National 4-H Horse Roundup, 1991-1992.

Karyn Malinowski, Ph.D. 19

Chair, Extension Symposium, American Society of Animal Science, Annual Meeting, 1992.
Chaired the 1989 American Youth Horse Council Leaders Symposium.
Serve on Horse Industry Handbook (USDA) Committee.
Chair Reproductive Physiology Section.
Chair 1988 American Society of Animal Science Meeting Reception Committee.
Chair New Jersey equine sector for Morris Animal Foundation for Animal Research.
Elected to Board of Directors of NARHA (North American Riding for Handicapped Association) 1992.

Membership in Professional Societies:

American Society of Animal Science
American Horse Council (chair State Horse Councils Committee 1996-1998)
American Youth Horse Council (President 1992-1994)
Epsilon Sigma Phi, National Honorary Extension Fraternity
Equine Science Society (member board of directors)
Morris Animal Foundation
National 4-H Horse Roundup
New Jersey Specialists' Association - past president
Treasurer, Epsilon Sigma Phi, Alpha Xi Chapter (1988-1989)
Vice President, Epsilon Sigma Phi, Alpha Xi Chapter (1990)
United States Trotting Association
North American Riding for the Handicapped Association