CURRICULUM VITAE

John Patrick Kastelic June, 2023

University of Calgary, Faculty of Veterinary Medicine	
Department of Production Animal Health	
	Canadian Citizen
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EDUCATION (EARNED AND HONORARY)

- 2007 Professor of Honorary Cause, Faculty of Veterinary Science, Szent István University, Budapest, Hungary
- MS, PhD
 Department of Veterinary Science, University of Wisconsin-Madison, Madison, WI, USA
 Major Professor: Oliver J. Ginther, VMD, PhD
 Major: Veterinary Science (Reproductive Physiology)
- 1984-85 Theriogenology Resident Department of Herd Medicine and Theriogenology, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK, Canada
- 1978-82 DVM (with Distinction) Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK, Canada
- 1976-78 Pre-Veterinary Program Faculty of Agriculture and Forestry, University of Alberta, Edmonton, AB, Canada

PROFESSIONAL SPECIALIZATIONS (THERIOGENOLOGY)

Diplomate, American College of Theriogenologists Certificate of Specialization, Canadian Veterinary Medical Association

EMPLOYMENT

- 2013-22 Head, Department of Production Animal Health, Faculty of Veterinary Medicine, University of Calgary, Calgary, AB
- 2012- Professor of Cattle Health Theriogenology, University of Calgary, Faculty of Veterinary Medicine, University of Calgary, Calgary, AB

1990-12	Research Scientist (Reproductive Physiology), Agriculture and Agri-Food Canada Research Centre, Lethbridge, AB (Initial appointment RES 2; RES 3 (1999); RES 4 (2004)
1985-90	Research Assistant, Reproductive Physiology, Department of Veterinary Science, University of Wisconsin-Madison, Madison, Wisconsin
1984-85	Clinical Research Fellow, Department of Herd Medicine and Theriogenology, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Saskatchewan
1983-84	Self-Employed Veterinarian, Mayerthorpe Veterinary Service, Mayerthorpe, Alberta
1982-83	Large Animal Veterinarian, G.W. Ollis and Associates, Leduc, Alberta
1981	Summer Assistant, Camrose Veterinary Group, Camrose, Alberta
1980	Necropsy Room Technician, Animal Health Division, Department of Agriculture, Government

PROFESSIONAL AFFILIATIONS

Adjunct Professor, Large Animal Clinical Sciences, WCVM, University of Saskatchewan Member of the Faculty, College of Graduate Studies and Research, University of Saskatchewan Adjunct Professor, Department of Biological Sciences, University of Lethbridge

EDITORIAL AND PEER-REVIEW ACTIVITIES

of Alberta, Edmonton, Alberta

Co-Editor-in-Chief, <u>Canadian Veterinary Journal</u> (2020-) Co-Editor-in-Chief, <u>Theriogenology</u> (2003-2013) Editorial Board, <u>Animal Reproduction Science</u> (2004-2006) Associate Editor, <u>Canadian Journal of Animal Science</u> (2000-2003) Assistant Editor, <u>Canadian Journal of Veterinary Research</u> (2000-2003) Editorial Board, <u>International Veterinary Information Service</u> (www.ivis.org; 2000-2003) Editorial Board, <u>Theriogenology</u> (1994-1999)

I also do *ad hoc* reviews for several journals and have reviewed grant proposals for: Alberta Cattle Commission; Dairy Farmers of Canada; NSERC; USDA; The Danish Research Council for Production and Technology Sciences; and Granting Agency of the Czech Republic. In addition, I have done peer reviews of theriogenologists being considered for promotion at Auburn University, University of Minnesota, Oklahoma State University, and University of Pretoria.

PROFESSIONAL MEMBERSHIPS

Alberta Veterinary Medical Association American College of Theriogenologists (Exam Committee, 2001-2008; President 2017/18) Association for Applied Animal Andrology (President 2004-2010) Canadian Veterinary Medical Association Society for Theriogenology

SERVICE ON GRADUATE STUDENT COMMITTEES

Student	University	Degree	Year*	Role
C. Lulai	Saskatchewan	MS	1993	Co-supervisor
G. Bo	Saskatchewan	PhD	1994	Committee member
C. Palmer	Saskatchewan	MS	1995	External examiner
R. Chandolia	Saskatchewan	PhD	1996	External examiner
B. Reed	Texas Tech	PhD	1997	Committee member
M. Martinez	Saskatchewan	MS	1998	Committee member
L. Brito	Botucatu, Brazil	MS	2000	Co-supervisor
M. Colazo	Saskatchewan	MS	2001	Committee member
M. Martinez	Saskatchewan	PhD	2002	Committee member
J. Thundathil	Saskatchewan	PhD	2002	Committee member
C. Barros	Botucatu, Brazil	PhD	2002	Co-supervisor
L. Brito	Saskatchewan	MVetSci	2002	Co-supervisor
A. Estrada	Guelph	DVSc	2003	External examiner
A. Brockway	Melbourne	PhD	2004	External examiner
M. Colazo	Saskatchewan	PhD	2005	Committee member
Z. Zhang	P. Edward Island	1 MS	2005	Committee member
L. Brito	Saskatchewan	PhD	2006	Co-supervisor
T. Ree	Edmonton	MS	2008	Committee member
F. Caminha	Saskatchewan	MS	2008	Co-supervisor
L. Newton	Calgary	MS	2008	Committee member
N. Kromrie	Lethbridge	MS	2009	External examiner
T. Sullivan	Queensland	PhD	2010	Assessor
K. Oliveira	Pará, Brazil	MS	2010	External examiner
E. Costa	Lethbridge	MS	2011	Committee member
H. Shojaei	Calgary	MS	2011	Committee member
A. Wasko	Calgary	MS	2012	Committee member
N. Pilgrim	Lethbridge	MS	2012	Committee member
A. Behrouzi	Alberta	MS	2013	External examiner
G. Rajamanickam	Calgary	PhD	2015	Committee member
A. Dance	Calgary	PhD	2016	Co-supervisor
E. Homerosky	Calgary	MS	2016	Co-supervisor
C. Corbett	Calgary	PhD	2017	Committee member
I. Hewage	Calgary	MS	2015	Committee member

L. Condas	Calgary	MS	2016	Committee member
A. Macedo	Calgary	MS	2017	Committee member
B. Silper	UBC	PhD	2017	External examiner
D. Dikman	Queensland	MS	2017	External examiner
C. Byrne	U. Coll. Dublin	PhD	2017	External examiner
C. Johnson	Calgary	PhD	2019	Committee member
C. Jacobs	Calgary	PhD	2019	Committee member
Y.L. Tan	Calgary	MS	2019	Co-supervisor
G. Rizzoto	Calgary	PhD	2020	Supervisor
V. Unnikrishnan	Calgary	MS	2020	Committee member
Z. Madiseh	Dalhousie	MS	2021	External examiner
M. Zakariah	Pretoria	PhD	2021	External examiner
A. Shahat	Calgary	PhD	2023	Supervisor
S. Shaw	Bharathiar U.	PhD	2023	External examiner
K. McCubbin	Calgary	PhD	2023	Committee member
L. Dorrestein	Calgary	PhD	2023	Committee member
E. de Jong	Calgary	PhD	2023	Committee member
S. Narayana	Calgary	PhD	2023	Committee member
K. Strong	Calgary	PhD	2023	Committee member
M. Biesheuvel	Calgary	PhD	2024	Committee member
S. Tiwari	Calgary	PhD	2025	Committee member
W. Shaukat	Calgary	PhD	2026	Committee member

*Refers to the year that the degree was completed (or the expected year of completion).

SCHOLARSHIPS AND AWARDS

- 2017 Veterinarian of the Year, Alberta Veterinary Medical Association
- 2013 Merck Veterinary Award (Canadian Veterinary Medical Association)
- 2009 Theriogenologist of the Year (American College of Theriogenologists)
- 2003 Agriculture and Agri-Food Canada Gold Harvest Award
- 2001 Canadian Society of Animal Science Award for Excellence in Genetics and Physiology
- 1987-90 Medical Research Council of Canada Fellowship
- 1984-85 Province of Alberta Scholarship
- 1982John Carl Tucker Award
- 1981 University Undergraduate Scholarship
- 1981 Burroughs-Wellcome Scholarship
- 1980 William Sidey Scholarship
- 1978 Douglas Farquhar Johnston Bursary in Agriculture
- 1977 Board of Governors Prize in Agriculture and Forestry
- 1977 Percy Clubine Memorial Bursary
- 1977 Province of Alberta Scholarship
- 1976 Percy Clubine Memorial Bursary
- 1976 Province of Alberta Scholarship

PEER-REVIEWED PUBLICATIONS

- 1. Lin Y, Han J, Barkema H, Wang Y, Gao J, Kastelic J, Han B, Qin S, Deng Z. Comparative genomic analyses of Lactococcus garvieae isolated from bovine mastitis in China. Microbiology Spectrum (Accepted).
- de Jong E, McCubbin KD, Kelton DF, Sanchez J, Dufour S, McDougall S, Ruegg PL, Lago A, Krömker V, Godden SM, Lam TJGM, Rajala-Schultz PJ, Middleton JR, Orsel K, Kastelic JP, Barkema HW. Invited review: Selective treatment of clinical mastitis in dairy cattle. Journal of Dairy Science (In press).
- 3. Strong KM, Marasco K, Invik J, Ganshorn H, Reid-Smith RJ, Waldner CL, Otto SJG, Kastelic JP, Checkley SL (2023) Factors associated with antimicrobial resistant enterococci in Canadian beef cattle: A scoping review. Front. Vet. Sci. 10:1155772, 2023.
- 4. Karimi R, Towhidi A, Ganjkhanlou M, Ghasemzadeh-Nava H, Khoee S, Kastelic J. Rumenprotected glucose significantly hastens uterine involution and increases numbers of ovarian follicles in early postpartum dairy cows. Reproduction in Domestic Animals (Accepted)
- 5. Shahat AM, Thundathil JC, Kastelic JP. Melatonin improves post-thaw sperm quality after mild testicular heat stress in rams. Reproduction in Domestic Animals 2023;58:423-430.
- 6. G Liu, Y Wu, L Wang, Y Liu, W Huang, Y Li, M Gao, J Kastelic, Barkema HW, Xia Z, Jin Y. Reemergence of canine Leishmania infantum infection in mountain areas of Beijing. One Health Advances 2023;1:1-15,
- de Jong E, Creytens L, Speksnijder D, McCubbin KD, Dufour S, Middleton JR, Ruegg PL, Lam TJGM, Kelton DF, McDougall S, Godden SM, Lago A, Rajala-Schultz PJ, Orsel K, De Vliegher S, Krömker V, Kastelic JP, Barkema HW. Selective treatment of non-severe clinical mastitis does not adversely affect cure, somatic cell count, milk yield, recurrence or culling: A systematic review and meta-analysis. Journal of Dairy Science 2023;106:1267-1286.
- 8. Castilhos D, Polesso AM, da Silva ACF et al. Varroa destructor infestation levels in Africanized honey bee colonies in Brazil from 1977 when first detected to 2020. Apidologie 2023;54:5.
- 9. Shahat A, Castillo J, Thundathil J, Kastelic J. Angus bulls voluntarily access shade during hot weather, reducing scrotal subcutaneous temperatures and improving sperm quality. Canadian Journal of Veterinary Research 87:17-22, 2023.
- 10. Ida JM, Wilson WM, Nydam DV, Gerlach SC, Kastelic JP, Russell ER, McCubbin KD, Adams CL, Barkema, HW. Contextualized understandings of dairy farmers' perspectives on antimicrobial use and regulation in Alberta, Canada. J Dairy Science 2023;106:547-64.
- Carvalho JC, Souza FS, Kastelic JP, Ferreira JCP. Reproduction in South American wild canids A review. Frontiers in Veterinary Science. Published 24 October 2022 https://doi.org/10.3389/fvets.2022.986030
- 12. McCubbin KD, de Jong E, Lam TJGM, Kelton DF, Middleton JR, McDougall S, De Vliegher S, Godden S, Rajala-Schultz PJ, Rowe S, Speksnijder DC, Kastelic JP, Barkema HW. Invited Review: Selective use of antimicrobials in dairy cattle at drying-off. J Dairy Science 2022;105:7161-7189.
- 13. Shahat AM, Thundathil JC, Kastelic JP. Melatonin or L-arginine in semen extender mitigate reductions in quality of frozen-thawed sperm from heat-stressed rams. Animal Reproduction Science 2022;238:106934.
- 14. Tiwari S, Rajamanickam G, Unnikrishnan V, Ojaghi M, Kastelic JP, Thundathil JC. Testis-specific isoform of Na+-K+ ATPase and regulation of sperm function. International Journal of Molecular Sciences 2022;23:7936.

- 15. Xu M, Liu Y, Mayinuer T, Lin Y, Wang Y, Gao J, Wang D, Kastelic JP, Han B. *Mycoplasma bovis* inhibits autophagy in bovine mammary epithelial cells via a PTEN/PI3K-Akt-mTOR-dependent pathway. Frontiers in Microbiology 2022;13:935547.
- 16. Reyhan VD, Sadeghi M, Miraei-Ashtiani SR, Ghafouri F, Kastelic JP, Barkema HW. Integrated transcriptome and regulatory network analyses identify candidate genes and pathways modulating ewe fertility. Gene Reports 2022;28:101659.
- 17. Chen P, Yang J, Wu N, Han B, Kastelic JP, Gao J. *Streptococcus lutetiensis* induces autophagy via oxidative stress in bovine mammary epithelial cells. Oxidative Medicine and Cellular Longevity 2022;2022:2549772.
- 18. Zhao W, Xu M, Barkema HW, Xie X, Lin Y, Khan S, Kastelic JP, Wang D, Deng Z, Han B. *Prototheca bovis* induces autophagy in bovine mammary epithelial cells via the HIF-1α and AMPKα/ULK1 pathway. Frontiers in Immunology 2022;13:934819.
- 19. Johnson C, Kiefer H, Chaulot-Talmon A, Dance A, Sellem E, Jouneau L, Jammes H, Kastelic J, Thundathil J. Prepubertal nutritional modulation in the bull and its impact on sperm DNA methylation. Cell and Tissue Research 2022;389:587-601.
- 20. Liang B, Zhao W, Han B, Barkema HW, Niu YD, Liu Y, Kastelic JP, Gao J. Biological and genomic characteristics of two bacteriophages isolated from sewage, using one multidrug-resistant and one non-multidrug-resistant strain of *Klebsiella pneumoniae*. Frontiers in Microbiology 2022;13:943279.
- Nadri T, Towhidi A, Zeinoaldini S, Riazi G, Sharaf M, Zhandi M, Kastelic J. Supplementation of freezing medium with encapsulated or free glutathione during cryopreservation of bull sperm. Reproduction in Domestic Animals 2022;57;515-523.
- 22. Ojaghi M, Varghese J, Kastelic JP, Thundathil JC. Characterization of the testis-specific Angiotensin Converting Enzyme (tACE)-interactome during bovine sperm capacitation. Current Issues in Molecular Biology 2022;44:449-69.
- 23. Shahat AM, Thundathil J, Kastelic JP. Melatonin improves testicular hemodynamics and sperm quality in rams subjected to mild testicular heat stress. Theriogenology 2022;188:163-9.
- 24. Zhao W, Deng Z, Barkema HW, Xu M, Gao J, Liu G, Shahid M, Kastelic JP, Han B. Nrf2 and NFκB/NLRP3 inflammasome pathways are involved in *Prototheca bovis* infections of mouse mammary gland tissue and mammary epithelial cells. Free Radical Biology and Medicine 2022;184:148-57.
- 25. Hasankhani A, Bahrami A, Sheybani N, Aria B, Hemati B, Fatehi F, Farahani HGM, Javanmard G, Rezaee M, Kastelic JP, Barkema HW. Differential co-expression network analysis reveals key hubhigh traffic genes as potential therapeutic targets for COVID-19 pandemic. Frontiers in Immunology 2021;12:789317.
- 26. Foroutan A, Devos J, Wishart DS, Li C, Colazo M, Kastelic J, Thundathil J, Fitzsimmons C. Impact of prenatal maternal nutrition and parental residual feed intake (RFI) on mRNA abundance of metabolic drivers of growth and development in young Angus bulls. Livestock Science 2021;243:104365.
- 27. El-Shalofy A, Hedia M, Kastelic J. Melatonin improves testicular hemodynamics, echotexture and testosterone production in Ossimi rams during the breeding season. Reproduction in Domestic Animals 2021;56:1456-63.
- 28. Zoche-Golob V, Donat K, Barkema HW, De Buck J, Kastelic J, Wolf R. Predicting sensitivity of repeated environmental sampling for *Mycobacterium avium subsp. paratuberculosis* in dairy herds using a Bayesian latent class model. The Veterinary Journal 2021;275:105728.

- 29. Kastelic, JP. The American College of Theriogenologists, from its pedigree to the neonatal period. Clinical Theriogenology 2021;13:121-6.
- 30. Zhao W, He F, Barkema HW, Xu S, Gao J, Liu G, Deng Z, Shahid M, Shi Y, Kastelic JP, Han B. *Prototheca* spp. induce an inflammatory response via mtROS-mediated activation of NF-κB and NLRP3 inflammasome pathways in bovine mammary epithelial cell cultures. Veterinary Research 2021;52:144-57.
- 31. Unnikrishnan V, Kastelic J, Thundathil J. Ouabain-induced activation of phospholipase C zeta and its contributions to bovine sperm capacitation. Cell and Tissue Research 2021;385:785-801.
- 32. McCubbin KD, Anholt RM, de Jong E, Ida JA, Nóbrega DB, Kastelic JP, Conly JM, Götte M, McAllister TA, Orsel K, Lewis I, Jackson L, Plastow G, Wieden HJ, McCoy K, Leslie M, Robinson JL, Hardcastle L, Hollis A, Ashbolt NJ, Checkley S, Tyrrell GJ, Buret AG, Rennert-May E, Goddard E, Otto SJG, Barkema HW. Knowledge gaps in the understanding of antimicrobial resistance in Canada. Frontiers in Public Health 2021;9:726484.
- 33. Chohan MR, Singh J, Cowan VE, Munro BJ, Blakley B, McKinnon J, Kastelic JP, Anzar M. Sustained low-dose ergot alkaloids minimally affect post-thaw sperm characteristics in mature and yearling Angus bulls. Theriogenology 2021;176:163-73.
- 34. Zoche-Golob V, Donat K, Barkema HW, De Buck J, Kastelic J, Wolf R. Predicting sensitivity of repeated environmental sampling for *Mycobacterium avium subsp. paratuberculosis* in dairy herds using a Bayesian latent class model. The Veterinary Journal 2021;275:105728.
- 35. Zhuang C, Gao J, Liu G, Zhou M, Yang J, Wang D, Kastelic JP, Han B. Selenomethionine activates selenoprotein S, suppresses Fas/FasL and the mitochondrial pathway and reduces *Escherichia coli*-induced apoptosis of bovine mammary epithelial cells. Journal of Dairy Science 2021;104:10171-82.
- 36. Castilhos D, Bergamo GC, Kastelic JP. Honey bee colony losses in Brazil in 2018-2019. Brazilian Journal of Animal and Environment Research 2021;4:5017-41.
- 37. Xu S, Liu Y, Gao J, Zhou M, Yang J, He F, Kastelic JP, Deng Z, Han H. Comparative genomic analysis of *Streptococcus dysgalactiae* subspecies *dysgalactiae* isolated from bovine mastitis in China. Frontiers in Microbiology 2021;12:751863.
- 38. Liu Y, Deng Z, Xu S, Liu G, Lin Y, Khan S, Gao J, Qu W, Kastelic JP, Han B. *Mycoplasma bovis* subverts autophagy to promote intracellular replication in bovine mammary epithelial cells cultured in vitro. Veterinary Research 2021;52:130.
- 39. Shahat AM, Thundathil JC, Kastelic JP. Scrotal subcutaneous temperature is increased by scrotal insulation or whole-body heating, but not by scrotal neck insulation; however, all three heat-stress models decrease sperm quality in bulls and rams. Journal of Thermal Biology 2021;100:103064.
- 40. Cheng J, Zhang J, Yang J, Yi B, Liu G, Zhou M, Kastelic J, Han B, Gao J. Klebsiella pneumoniae infection causes mitochondrial damage and dysfunction in bovine mammary epithelial cells. Veterinary Research 2021;52:17.
- 41. Yamada PH, Codognoto VM, de Ruediger FR, da Silva KM, Aristizábal VV, Kastelic JP, Rizzoto G, de Souza FF, de Soutello RVG, Chacur MGM, Oba E. A comparison of immunological, chemical and surgical castration of Nelore bulls. Theriogenology 2021;169:9-13.
- 42. Chohan MR, Munro BJ, Cowan VE, Anzar M, Blakley B, McKinnon J, Kastelic JP, Rivera-Acuña F, Singh J. Feeding yearling Angus bulls low-level ergot daily for 9 weeks decreased serum prolactin concentrations and had subtle effects on sperm end points. Theriogenology 2021;161:187-99.
- 43. Zhao W, Shi Y, Liu G, Yang J, Yi B, Liu Y, Kastelic JP, Han B, Gao J. Bacteriophage has

beneficial effects in a murine model of *Klebsiella pneumoniae* mastitis. Journal of Dairy Science 2021;104:3474-84.

- 44. Cheng J, Zhou M, Nobrega DB, Barkema HW, Xu S, Li M, Kastelic JP, Shi Y, Han B, Gao J. Genetic diversity and molecular epidemiology of outbreaks of Klebsiella pneumoniae mastitis on two large Chinese dairy farms. Journal of Dairy Science 2021;104:762-75.
- 45. Shi Y, Zha W, Liu G, Ali T, Chen P, Liu Y, Kastelic JP, Han B; Gao J. Bacteriophages isolated from dairy farm mitigated *Klebsiella pneumoniae*-induced inflammation in bovine mammary epithelial cells cultured in vitro. BMC Veterinary Research 2021;17:37.
- 46. Chen P, Qiu Y, Liu G, Li X, Cheng J, Liu K, Qu W, Zhu C, Kastelic JP, Han B, Gao J. Characterization of *Streptococcus lutetiensis* isolated from clinical mastitis of dairy cows. Journal of Dairy Science 2021;104:702-14.
- 47. Unnikrishnan V, Kastelic J, Thundathil J. Intracytoplasmic sperm injection in cattle. Genes 2021;12:1-18.
- 48. Johnson C, Fitzsimmons C, Kovalchuk I, Kastelic J, Thundathil J. Testis-specific changes in gene expression of post-pubertal beef bulls divergent for residual feed intake and exposure to different pre-natal diets. Animal Production Science 2020;60:1491-502.
- 49. Shahat AM, Thundathil JC, Kastelic JP. Data loggers in scrotal subcutaneous tissues reliably assess intrascrotal temperatures in rams. Small Ruminant Research 2020;193:106247.
- 50. Nobrega DB, Tang KL, Caffrey NP, De Buck J, Cork SC, Ronksley PE, Polachek AJ, Ganshorn H, Sharma N, Kastelic JP, Kellner JD, Ghali WA, Barkema HW. Prevalence of antimicrobial resistance genes and its association with restricted antimicrobial use in food-producing animals: a systematic review and meta-analysis. Journal of Antimicrobial Chemotherapy 2020;7:561-75.
- 51. Rizzoto G, Boe-Hansen G, Klein C, Thundathil JC, Kastelic JP. Acute mild heat stress alters gene expression in testes and reduces sperm quality in mice. Theriogenology 2020;158:375-81
- 52. Johnson J, Kasimanickam VR, Kastelic JP, Kasimanickam R. Reduced gastrointestinal worm burden following long term parasite control improves body condition and fertility in beef cows Veterinary Parasitology 2020;287:109259.
- 53. Trevisol E, Mogollón García HD, Ackermann CL, Lacerda W, Pires RML, Laufer-Amorin R, Carvalho RF, Franchi FF, Castilho ACS, Rizzoto G, Kastelic JP, Ferreira JCP. Partial luteolysis during early diestrus in cattle downregulates VEGFA expression and reduces large luteal cell and corpus luteum sizes and plasma progesterone concentration. Theriogenology 2020;158:188-95.
- 54. Nobrega DB, Naqvi SA, Dufour S, Deardon R, Kastelic JP, De Buck J, Barkema HW. Critically important antimicrobials are generally not needed to treat nonsevere clinical mastitis in lactating dairy cows: Results from a network meta-analysis. Journal of Dairy Science 2020;103:10585-603.
- 55. Liu Y, Zhou M, Xu S, Khan MA, Shi Y, Qu W, Gao J, Liu G, Kastelic JP, Han B. *Mycoplasma bovis*-generated reactive oxygen species and induced apoptosis in bovine mammary epithelial cell cultures. Journal of Dairy Science 2020;103:10429-45.
- 56. Zhuang C, Huo W, Liu G, Shahid M, Gao K, Barkema HW, Rahman S, Kastelic JP, Han B. *In vitro* immune responses of bovine mammary epithelial cells induced by *Escherichia coli*, with multidrug resistant extended-spectrum β-lactamase, isolated from mastitic milk. Microbial Pathogenesis 2020;149:104494.
- 57. Shahat AM, Rizzoto G, Kastelic JP. Amelioration of heat stress-induced damage to testes and sperm quality. Theriogenology 2020;158:84-96.
- 58. Scheeren VFC, Sancler-Silva Y, El-Sheikh Ali H, Kastelic JP, Alvarenga MA, Papa FO. Update on seminal vesiculitis in stallions. Journal of Equine Veterinary Science 2020;94:103234.

- 59. Liu Y, Xu S, Li M, Zhou M, Huo W, Gao J, Liu G, Kastelic JP, Han B. Molecular characteristics and antibiotic susceptibility profiles of *Mycoplasma bovis* associated with mastitis on dairy farms in China. Preventive Veterinary Medicine 2020;182:105106.
- 60. Kasimanickam R, Jorgensen-Muga K, Kapi A, Ratzburg K, Kasimanickam V, Kastelic J. Estrous response and pregnancy percentages following use of a progesterone-based, split-time estrous synchronization treatment regimens in beef heifers. Animal Reproduction Science 2020;221:106544.
- 61. Schlögl KS, Hiesel JA, Wolf R, Kopacka I, Wagner P, Kastelic J, Deutz A. Spatiotemporal cluster and incidence analysis of cattle mortality caused by bovine babesiosis in Styria, Austria, between 1998 and 2016. Parasitology Research 2020;119:1117-23.
- 62. Khoshniat MT, Towhidi A, Yazdi KR, Rostami F, Davachi ND, Khalooee F, Kastelic J. Dietary omega-3 fatty acids from linseed oil improve quality of post-thaw but not fresh sperm in Holstein bulls. Cryobiology 2020;93:102-8.
- 63. Liu G, Ali T, Gao J, Ur Rahman S, Yu D, Barkema HW, Huo W, Xu S, Shi Y, Kastelic JP, Han B. Co-occurrence of plasmid-mediated Colistin resistance (mcr-1) and Extended-Spectrum β-Lactamase encoding genes in Escherichia coli from bovine mastitic milk in China. Microbial Drug Resistance 2020;26:685-96
- 64. Johnson C, Kastelic J, Thundathil J. Role of Akt and mammalian target of rapamycin signalling in insulin-like growth factor 1-mediated cell proliferation in porcine Sertoli cells. Reproduction, Fertility and Development 2020;32:929-40.
- 65. Ratzburg K, Jorgenson-Muga K, Murugeasn J, Kastelic J, Kasimanickam V, Kasimanickam R. Presynchronization with CIDR, with or without GnRH, prior to CO-Synch in beef heifers. Theriogenology 2020;146:80-7.
- 66. Zhuang C, Liu G, Barkema HW, Zhou M, Xu S, ur Rahman S, Liu Y, Kastelic JP, Gao J, Han B. Selenomethionine suppressed TLR4/NF-κB pathway by activating Selenoprotein S to alleviate ESBL Escherichia coli-induced inflammation in bovine mammary epithelial cells and macrophages. Frontiers in Microbiology 2020;11:1461
- 67. Cheng J, Zhang J, Han B, Barkema HW, Cobo ER, Kastelic JP, Zhou M, Shi Y, Wang J, Yang R, Gao J. *Klebsiella pneumoniae* isolated from bovine mastitis is cytopathogenic for bovine mammary epithelial cells. Journal of Dairy Science 2020;103:3493-504.
- 68. Rizzoto G, Ferreira JCP, Codognoto VM, Oliveira KC, Mogollón García HD, Pupulim AGR, Teixeira-Neto FJ, Castilho A, Nunes SG, Thundathil JC, Kastelic JP. Testicular hyperthermia reduces testosterone concentrations and alters gene expression in testes of Nelore bulls. Theriogenology 2020;152:64-8.
- 69. Kasimanickam R, Kasimanickam V, Kastelic J, Nagle S, Kapi A. Effects of twice daily compared with split-time estrous detection on pregnancy percentage in recipient beef cows. Animal Reproduction Science 2020;219:106526.
- 70. Carvalho JC, Silva FED, Rizzoto G, Dadalto CR, Rolim LS, Mamprim MJ, Souza FF, Teixeira CR, Kastelic JP, Ferreira JCP. Semen collection, sperm characteristics and ultrasonographic features of reproductive tissues in crab-eating fox (*Cerdocyon thous*). Theriogenology 2020;155:60-9.
- 71. Kasimanickam R, Kasimanickam V, Kastelic JP, Ramsey K. Metabolic biomarkers, body condition, uterine inflammation and response to superovulation in lactating Holstein cows. Theriogenology 2020;146:71-9.
- 72. Rizzoto G, Ferreira JCP, Mogollón Garcia HD, Teixeira-Neto FJ, Bardella LC, Martins CL, Silva JRB, Thundathil JC, Kastelic JP. Short-term testicular warming under anaesthesia causes similar

increases in testicular blood flow in *Bos taurus* versus *Bos indicus* bulls, but no apparent hypoxia. Theriogenology 2020;145:94-9.

- 73. Johnson C, Dance A, Kovalchuk I, Kastelic J, Thundathil J. Enhanced pre-pubertal nutrition upregulates mitochondrial function in testes and sperm of post-pubertal Holstein bulls. Scientific Reports 2020;10:2235.
- 74. Nascimento Júnior AD, Marques JCC, Cezar ARR, Batista AM, Kastelic JP, Câmara DR. Inhibition of Na+, K+ -ATPase with ouabain is detrimental to equine blastocysts. Animal Reproduction 2020;17:0079.
- 75. Shahid M, Cobo ER, Chen L, Cavalcante PA, Barkema HW, Gao J, Xu S, Liu Y, Knight CG, Kastelic JP, Han B. *Prototheca zopfii* genotype II induces mitochondrial apoptosis in models of bovine mastitis. Scientific Reports 2020;10:698.
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PRESENTATIONS

Principles of planning, conducting, analysing and communicating scientific research; Selected topics in animal reproduction. Faculty of Veterinary Medicine and Animal Science (FMVZ), Unesp, Botucatu; 6 days of presentations, March 25 to April 10, 2019.

Beef bulls should be fit and not fat! Saskatchewan Ranch Management Forum, Prince Albert, SK, February 2, 2019.

Progesterone in bovine reproduction. Annual Meeting, Western Canadian Association of Bovine Practitioners, Saskatoon, SK, January 18, 2019

Scientific Writing and Writing in English, Facultad de Ciencias Veterinarias, Universidad de Concepción, Campus Chillán, Chillán, Chile, January 8-11, 2019

Pathogenesis of postpartum disorders in dairy cattle. Hungarian Animal Reproduction Society, Szekesfehervar, Hungary, September 22, 2018.

Ovarian follicular development in cattle; Ovarian follicular dynamics and superovulation in cattle; Principles of scientific writing. 27 Annual Congress, Italian Embryo Transfer Society, Peschiera del Garda Verona, Italy, September 14-15, 2018.

Raising and selecting functional beef bulls. Animal Clinic of Strathmore client meeting, Strathmore, AB, March 27, 2018.

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Use of ultrasound and infrared thermography for examining bulls; Effects of nutrition on puberty in bulls; and Bull abnormalities and their effect on sperm production and fertility. Symposium on Animal Reproduction, Guadalajara, Mexico, July 14-15, 2016.

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Scientific writing workshop. State University of Ceará, Fortaleza, CE, Brazil, November 23-25, 2011.

Scientific writing workshop. Universidad de Chile, Santiago, Chile, November 10-11, 2011.

Principles of ultrasonography and ultrasonographic imaging of the reproductive tract in farm animals; The effects of nutrition on reproductive development (puberty) in male ruminants. I Simposio Latinoamericano de Reproducción Animal, Viña del Mar, Chile, November 8, 2011.

Scientific writing workshop. Clinic for Cattle, University of Veterinary Medicine, Hannover, Germany, September 26-30, 2011.

Scientific writing workshop. Research Institute for Animal Breeding and Nutrition, Herceghalom, Hungary, June 28 to July 1, 2011.

Principles of Scientific Writing. Lethbridge Research Centre, Lethbridge, AB, Canada, December 11, 2010.

Principles of Scientific Writing. Nova Scotia Agricultural College, Truro, NS. (RESM 4002/4010 class). Delivered by conference call, November 23, 2010.

Why are science and scientific research important? Nutrition, metabolic hormones, and sexual development in bulls. Scrotal/testicular thermoregulation in bulls. China Agricultural University, Beijing, China, October 25 to 29, 2010

Scientific writing workshop. China Agricultural University, Beijing, China, October 18 to 22, 2010

Scientific writing workshop. Clinic for Cattle, University of Veterinary Medicine, Hannover, Germany, September 27 to October 1, 2010.

Principles of Animal Care and Use: Core Module. Lethbridge Research Centre (June 30 and December 9, 2010); Animal Diseases Research Institute, Lethbridge (December 10, 2010); and Onefour Research Substation (December 14, 2010).

All things testicular: normal and abnormal function and its assessment. National Association of Animal Breeders, Biennial meeting, Milwaukee, WI, USA, September 17, 2010.

Development and thermoregulation of the bovine testis. Cornell Physiology/Endocrinology Seminar Series, Cornell University, Ithaca, NY, USA, September 15, 2010.

Principles of data handling and analysis, preparation of tables and figures; Principles of scientific writing; Writing an abstract; Scientific writing for non-native speakers of English. Cornell University, Ithaca, NY, USA, September 14-15, 2010.

Ramblings of an itinerant Theriogenologist. Presentation to dual degree (DVM-PhD) students. Cornell University, Ithaca, NY, USA, September 14, 2010.

A new paradigm in scrotal/testicular thermoregulation. 7th Biennial Meeting, Association for Applied Animal Andrology, Sydney, Australia, August 29, 2010.

Are we conserving or condemning genetic diversity? Keynote Address at the International Strategic Programs for the Conservation of Animal Genetic Resources for Food and Agriculture (sponsored by OECD Co-operative Research Programme). Vancouver, BC, Canada, July 17, 2010.

Principles of scientific writing. Federal University of Pará (UFPA), Belem, PA, Brazil, January 25, 2010.

Principles of scientific writing and writing in English. Federal University of Brasilia, Brasilia, Brazil, January 18-21, 2010.

Workshop for authors publishing scientific papers in English. Post-conference workshop, Annual Meeting, International Embryo Transfer Society, Cordoba, Argentina, January 13-14, 2010.

Scientific writing: Why is it important and how can we improve it? Lethbridge Research Centre, December 9, 2009.

Scientific writing workshop. Clinic for Cattle, University of Veterinary Medicine, Hannover, Germany, September 28-October 2, 2009.

Breeding soundness evaluation of the bull; Scrotal testicular thermoregulation in the bull; Effects of nutrition on puberty in bulls; Principles of ultrasonography and ultrasonographic imaging of the reproductive tract in farm animals; Use of anti-GnRH vaccines to suppress reproductive function in cattle. School of Veterinary Medicine, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil, March 9-20, 2009.

Principles of science and scientific writing in English. School of Veterinary Medicine, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil, March 2-6, 2009.

Pregnancy, placentation, and parturition. University of Calgary, Faculty of Veterinary Medicine, Guest Lecture (MDSC701), November 19, 2008.

Scientific writing workshop. Clinic for Cattle, University of Veterinary Medicine, Hannover, Germany, October 31-November 2, 2008.

Effects of nutrition on puberty in bulls. Clinic for Cattle, University of Veterinary Medicine, Hannover, Germany, October 30, 2008.

Scrotal/testicular thermoregulation in bulls. Clinic for Cattle, University of Veterinary Medicine, Hannover, Germany, October 29, 2008.

Scientific writing workshop. Faculty of Veterinary Science, Szent István University, Budapest, Hungary July 18-19, 2008.

Breeding soundness evaluation and semen analysis for predicting bull fertility. International Congress on Animal Reproduction, Budapest, Hungary, July 15, 2008.

Evidence-based veterinary medicine. XXV Jubilee World Buiatrics Congress, Budapest, Hungary, July 10, 2008.

Ovarian follicular development and synchronization of estrus and ovulation in cattle. XXV Jubilee World Buiatrics Congress, Budapest, Hungary, July 8, 2008.

Effects of nutrition on puberty in male ruminants. Lethbridge College Tour Group, Lethbridge Research Centre, Lethbridge, AB, April 17, 2008.

Scientific writing for non-native speakers of English. Pre-conference workshop, Annual Meeting, International Embryo Transfer Society, Denver, CO, USA, January 5-6, 2008.

Synchronization of estrus and ovulation in cattle. University of Veterinary and Pharmaceutical Sciences Brno, Brno, Czech, Republic, December 4, 2007.

Principles of scientific writing. University of Veterinary and Pharmaceutical Sciences Brno, Brno, Czech, Republic, December 3, 2007.

Scientific writing workshop: Pathways to an accepted manuscript. Faculty of Veterinary Science, Szent István University, Budapest, Hungary November 28-29, 2007.

Selected chapters in reproduction of farm animals (Ovarian follicular development, induction and synchronization of estrus and ovulation in cattle, horses, and small ruminants; Principles of ultrasonography and ultrasonographic imaging of the reproductive tract in farm animals; Scrotal testicular thermoregulation in the bull; Effects of nutrition on puberty in bulls). Faculty of Veterinary Science, Szent István University, Budapest, Hungary November 27-28, 2007.

Principles of science and scientific writing. Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK. November 19-20, 2007.

Principles of scientific writing. Federal University of Pará (UFPA), Belem, PA, Brazil, June 20-22, 2007.

Effects of nutrition on puberty in bulls. Federal University of Pará (UFPA), Belem, PA, Brazil, June 23, 2007.

Principles of scientific writing. Federal University of Minas Gerais (UFMG), Belo Horizonte, MG, Brazil on Thursday, June 15, 16, and 18, 2007.

Effects of nutrition on puberty in bulls. Federal University of Minas Gerais (UFMG), Belo Horizonte, MG, Brazil, June 19, 2007.

Principles of scientific writing. University of the Republic, Montivideo Uruguay, June 11-13, 2007.

Breeding soundness evaluation of the bull (Wet Lab). Annual Conference for Cattle Veterinarians, Paysandú, Uruguay, June 9, 2007.

Effects of nutrition on puberty in bulls. Breeding soundness evaluation of the bull. Annual Conference for Cattle Veterinarians, Paysandú, Uruguay, June 7, 2007.

Scientific writing for non-native speakers of English; Reviewing and editing manuscripts; Principles of scientific writing; Writing an abstract. Cornell University, School of Veterinary Medicine, Ithaca, NY,

USA. January 18-19, 2007.

Effects of nutrition on puberty and fertility in the bull. Cornell University, School of Veterinary Medicine, Ithaca, NY, January 18, 2007.

Workshop for authors publishing scientific papers in English. 2007 Tsukuba Meeting for Animal Biotechnology: Progress in somatic cell nuclear transfer. Tsukuba, Japan, January 12-13, 2007.

Progress in cloning: A retrospective from the pages of Theriogenology. Keynote address, 2007 Tsukuba Meeting for Animal Biotechnology: Progress in somatic cell nuclear transfer. Tsukuba, Japan, January 12, 2007.

Scientific writing for non-native speakers of English. Pre-conference workshop, Annual Meeting, International Embryo Transfer Society, Kyoto, Japan, January 6-7, 2007.

Effects of nutrition on puberty in bulls. 5th Biannual Meeting, Association for Applied Animal Andrology. St. Paul, MN, August 28, 2006.

Critical evaluation of scientific articles and other sources of information; an introduction to evidence-based veterinary medicine. Annual Meeting, Society for Theriogenology, St. Paul, MN, USA, August 26, 2006.

The art and science of scientific writing; Principles of preparing posters and powerpoint presentations. 8th Workshop on Clinical Endocrinology: Endocrine aspects in Management of Reproduction in Ruminants. Faculty of Veterinary Science, Szent István University, Budapest, Hungary, July 5-6, 2006.

Effect of environmental factors and nutrition on puberty in male ruminants. 8th Workshop on Clinical Endocrinology: Endocrine aspects in Management of Reproduction in Ruminants. Faculty of Veterinary Science, Szent István University, Budapest, Hungary, July 4, 2006.

Scientific writing for non-native speakers of English. Pre-conference workshop, Annual Meeting, International Embryo Transfer Society, Orlando, Florida, USA, January 7-8, 2006.

Principles of science and scientific writing. University of Lethbridge, Graduate Students Association Seminar, Lethbridge, AB, November 16, 2005.

Scientific writing. University of Lethbridge Pre-Vet Club, Lethbridge, AB, October 29, 2005.

Experiences in Brazil. Lethbridge Research Centre Seminar, Lethbridge, AB, October 26, 2005.

The responsibilities and rewards of editing an international scientific journal. Meeting of Scientific Editors, University of Sao Paulo, Sao Paulo, SP, Brazil, October 6, 2005.

Successful publishing in an English language journal. University of Sao Paulo, Sao Paulo, SP, Brazil, October 3-5, 2005.

Folliculogenesis in cattle. II Workshop de Reprodção Animal, Pelotas, RS, Brazil, September 29, 2005.

Scientific writing. Embrapa Clima Temperado, Pelotas, RS, Brazil, September 28, 2005.

Scientific writing for non-native speakers of English. Pre-conference workshop, Annual Meeting, International Embryo Transfer Society, Copenhagen, Denmark, January 8-9, 2005.

Scientific writing from an editor's perspective. University of Saskatchewan, Reproductive Biology Seminar Series, Saskatoon, SK, December 10, 2004.

Scientific writing. University of Lethbridge Neuroscience Seminar, Lethbridge, AB, November 19, 2004.

Principles of scientific writing. UNESP Botucatu, Botucatu, SP, Brazil, October 26, 2004.

Synchronization of ovulation in cattle. Scrotal/testicular thermoregulation in cattle. UNESP Botucatu, Botucatu, SP, Brazil, October 25, 2004.

Principles of scientific writing. Federal University of Santa Maria, Santa Maria, RS, Brazil, October 18-19, 2004.

Folliculogenesis in cattle. 1⁰ Simpósio Internacional de Reprodção Animal Aplicada (First International Symposium on Applied Animal Reproduction). Londrina, PR, Brazil, October 14, 2004.

Inducing abortion in feedlot heifers. Animal Health Seminar for Veterinarians. Lethbridge, AB, October 1, 2004.

The effects of active immunization against GnRH on growth and reproductive function in cattle. Workshop on anti-GnRH vaccination in animals. 15th International Congress on Animal Reproduction. Porto Seguro, BA, Brazil, August 9, 2004.

Scrotal/testicular thermoregulation in bulls. 4th Biannual meeting, Association for Applied Animal Andrology, Porto Seguro, BA, Brazil, August 7, 2004.

Principles of scientific writing. 7th Budapest Workshop on Clinical Endocrinology, University of Veterinary Science, Budapest, Hungary, July 1, 2004.

Controlled breeding in beef cattle: approaches, management and economics. June Conference 2004, University of Saskatchewan, Saskatoon, SK, June 12, 2004.

Scrotal/testicular thermoregulation in bulls. Interdisciplinary Reproductive Biology Group, University of Florida, Gainesville, Florida, January 29, 2003.

Scrotal/testicular thermoregulation in bulls. Synchronization of estrus and ovulation in cattle. Annual Meeting, Western Canadian Association of Bovine Practitioners 2003, Calgary, AB, January 16, 2003.

Bovine breeding soundness evaluation CD-ROM. 3rd Biannual Meeting of the Association for Applied Animal Andrology, Lake Balaton, Hungary, August 27, 2002.

A comparison of methods to evaluate the plasmalemma of bovine sperm and their relationship with in vitro fertilization rate. 3rd Biannual Meeting of the Association for Applied Animal Andrology, Lake Balaton, Hungary, August 27, 2002.

Superovulation and CIDR protocols. Annual Convention, Canadian Embryo Transfer Association, Quebec City, Quebec, August 24, 2002.

Evaluating motility of bovine semen. Bull Breeding Soundness Panel, Breeding Soundness Symposium and Wetlab, Annual Conference, Society for Theriogenology, Colorado Springs, Colorado, August 8, 2002.

Evaluation of a killed Neospora vaccine in beef cattle. Abstract presented at the Annual Conference, Society for Theriogenology, Colorado Springs, Colorado, August 8, 2002.

The use of Cystorelin or Lutropin-V and CIDR devices in estrus synchronization programs for fixed-time AI. Merial Veterinary Partnership Meeting for Quebec Dairy Practitioners. Alexandria Bay, New York, June 15, 2002.

Synchronizing estrus in cattle. Producer meetings, Lethbridge and Medicine Hat, Alberta and Swift Current, Saskatchewan. February 18 and 19, 2002.

Temperature regulation of the testes in bulls. Association for Applied Animal Andrology, Milwaukee, Wisconsin, September 28, 2000.

Effects of fresh versus frozen semen and time of AI on pregnancy rates in beef heifers synchronized with MGA and estradiol. Canadian Society of Animal Science Technical Session, Agri-Food 2000 Conference, Winnipeg, Manitoba, July 18, 2000.

Synchronizing estrus in beef cattle. Producer meetings, Swift Current and Moose Jaw, Saskatchewan, February 24, 2000.

Implications of new methods of estrus suppression on animal health. National Beef Sciences Seminar, Lethbridge, Alberta, January 27, 2000.

Infrared thermography as a tool for bull evaluation. Ag-Days Bull Congress, Brandon Manitoba, January 19-21, 1999.

Fat affects bull fertility. Peace Country Bull Congress, Fairview Alberta, January 16, 1999.

Synchronization of estrus in cattle. Western College of Veterinary Medicine June Conference, University of Saskatchewan, Saskatchewan, June 19, 1998.

Breeding soundness evaluation and scrotal/testicular thermoregulation in beef bulls. USDA Meat Animal Research Centre, Clay Centre, Nebraska, April 22, 1998.

Estrus synchronization in dairy cattle. Producer meeting, Lethbridge, Alberta, March 12, 1998.

Estrus synchronization in beef cattle. Producer meeting, Lethbridge, Alberta, March 11, 1998.

The use of testicular ultrasonography in Nelore bulls. IV Simposio: O Nelore do Seculo XXI. Uberaba, MG, November 17, 1997.

Synchronization of estrus in cattle. IV Congress International da Associação Brasileira de Estudos Canadenses, Uberlandia, MG, Nobember 13, 1997.

Optimizing calving rates in cattle. UNESP Jaboticabal, Jaboticabal, SP, November 3, 1997.

Principles of ultrasound imaging; Ultrasound imaging of the reproductive tract of cattle. Course on reproductive ultrasound in cattle. Federal University of Uberlandia, Uberlandia, MG, October 27 to 29, 1997.

Principles of ultrasound imaging; Ultrasound imaging of the reproductive tract of cattle. Course on ultrasound imaging of the reproductive tract of the bovine species. EMBRAPA, CGNGC, Campo Grande, MS, October 20 to 23, 1997.

Ovarian follicular dynamics and estrus synchronization in cattle; Puberty in cattle; Breeding soundness evaluation and scrotal/testicular thermogregulation in bulls; The art and science of animal research; Principles of scientific writing. Post-graduate course on animal reproduction, UNESP Botucatu, Botucatu, SP, October 13 to 15, 1997.

Principles of ultrasound imaging; Ultrasound imaging of the reproductive tract of cattle. Course on bovine embryo transfer. EMBRAPA, CPPSE, São Carlos, SP, Brazil, October 7, 1997.

Ovarian follicular dynamics and estrus synchronization in cattle; Principles of ultrasound imaging and examination of the reproductive tract in cattle; Breeding soundness evaluation and scrotal/testicular thermoregulation in bulls. Post-graduate course on animal reproduction, Institute de Reproduccion Animal Cordoba, Cordoba, Argentina, October 4 and 5, 1997.

Importance of the Bull; Anatomy and Physiology of the Male Reproductive Tract; New Technologies for Reproductive Evaluation. Course on evaluation of bull fertility using new technologies. EMBRAPA, CPPSE, São Carlos, SP, Brazil, September 16 to 18, 1997.

Gonadal development and function in cattle. XII Congresso Brasileiro de Reprodução Animal, Caxambu, MG, Brazil, August 5, 1997.

New technologies for breeding soundness evaluation of the bull. Seminar for students, EMBRAPA, CPPSE, São Carlos, SP, Brazil, July 17, 1997.

New realities and novel responses in livestock research. EMBRAPA, CGNGC, Campo Grande, MS, July 2, 1997.

New technologies for breeding soundness evaluation of the bull. III Convenção Nacional da Raça Canchim, EMBRAPA, CPPSE, São Carlos, SP, Brazil, June 13, 1997.

Improving reproductive efficiency in cattle. EMBRAPA, CPPSE, São Carlos, Brazil, March 6, 1997.

Selection and management of bulls to optimize fertility; Successful estrus synchronization. Fall Meeting, Ontario Association of Bovine Practitioners, Guelph, Ontario, September 21, 1996.

Successful estrous synchronization in beef cattle. Annual Meeting, Canadian Society of Animal Science, Lethbridge Alberta, July 10, 1996.

Characteristics of Angus cattle from sires with large or average yearling scrotal circumference. Annual Meeting, Canadian Society of Animal Science, Lethbridge Alberta, July 10, 1996.

Nutritional management of bulls; Management of replacement heifers; Managing beef females to improve reproductive performance. 1996 Western College of Veterinary Medicine June Conference, University of Saskatchewan, Saskatchewan, June 20 and 21, 1996.

Livestock research at the Lethbridge Research Centre. Green Acres Kiwanis Club. Lethbridge, Alberta, May 21, 1996.

Infrared thermography. Career Fair, St. Francis Jr. High School. Lethbridge, Alberta, May 10, 1996.

Management and estrus synchronization of beef cattle. Chinook Applied Research Association, Monitor, Alberta, February 13, 1996.

Profitable cow-calf management. Mallinckrodt Veterinary Inc, National Sales Meeting. Toronto, Ontario, February 10, 1996.

Breeding soundness evaluations of bulls. Southern Alberta Large Animal Practitioner's Group. Lethbridge, Alberta, February 8, 1996.

Ultrasonographic evaluation of the female bovine reproductive tract. Department of Animal Reproduction and Veterinary Radiology, Faculty of Veterinary Medicine and Animal Science, Sao Paulo State University, Botucatu, S.P, Brazil, September 25, 1995.

Ultrasonographic evaluation of the female bovine reproductive tract. Tenth Annual Meeting, Brazilian Society for Embryo Transference, Aguas de Lindoia, S.P., Brazil, September 24, 1995.

Measurement and importance of scrotal circumference in beef bulls. Red Angus Association Tour, Blue Spruce Stock Farm, Sangudo, Alberta, August 6, 1995.

Estradiol-17B and melengestrol acetate (MGA) for estrus synchronization in beef cattle. Western Section, American Society of Animal Science, and Western Branch, Canadian Society of Animal Science, Lethbridge, Alberta, July 8, 1995.

Visit with a vet. Lethbridge Public Library, Lethbridge, Alberta, May 27, 1995.

Selection and management of bulls to optimize fertility. Canadian Semen Production Symposium, Balzac, Alberta, February 17, 1995.

Recent developments in estrous synchronization in cattle. Western Canadian Association of Bovine Practitioners meeting, Calgary, Alberta, January 26, 1995.

Infrared thermography as a diagnostic tool. International Beef Symposium, Great Falls, Montana, January 19, 1995.

New approaches to optimizing reproductive efficiency. Western Canadian Dairy Seminar, Red Deer, Alberta, February 25. 1994.

Beef cattle management. Grazing and livestock management workshop. Peigan Indian Band, Brockett, Alberta, November 30, 1993.

Embryonic development and embryonic loss in cattle; Scrotal/testicular thermoregulation in bulls and rams. Society for Theriogenology Annual Meeting, Jacksonville, Florida, August 13 and 14, 1993.

Canada West Society for Reproductive Biology, 15th Annual Winter Workshop, Saskatoon, Saskatchewan, February 27, 1993.

Improving reproductive efficiency in the beef female. Canadian Embryo Transfer Association/Canadian Association of Animal Breeders Annual Convention, Halifax, Nova Scotia, September 15, 1992.

Ultrasonic assessment of the corpus luteum in cattle; Ultrasonic assessment of the conceptus in cattle; Embryonic loss in cattle; Ultrasonic assessment of reproductive organs in bulls. 1992 Western College of Veterinary Medicine June Conference, University of Saskatchewan, Saskatoon, Saskatchewan, June 18 and 19, 1992.

Improving reproductive performance in beef females; Ultrasound in cattle reproduction. Fifth Annual Canadian National Breeder's School, University of Guelph, Guelph, Ontario, May 29, 1992.

Effects of dietary energy on scrotal surface temperatures, seminal quality, and sperm production in young beef bulls. Canada West Society for Reproductive Biology, 14th Annual Winter Workshop, Edmonton, Alberta, February 28, 1992.

Pituitary FSH-beta mRNA, serum FSH, and ovarian follicular development in follicular fluid-treated cows. Canada West Society for Reproductive Biology, 14th Annual Winter Workshop, Edmonton, Alberta,

February 28, 1992.

Factors affecting postpartum anestrus in beef cows. Annual Meeting, Pinhorn Grazing Association, Foremost, Alberta, January 13, 1992.

Improving reproductive performance and profitability in beef bulls and females. Alberta Agriculture Seminar for Cow-Calf Producers, Highwood Auction Market, High River, Alberta, December 3, 1991.

The utilization of ultrasonic imaging to study reproductive biology in cattle. Lethbridge East Rotary Club, Lethbridge, Alberta, December 2, 1991.

Improving reproductive performance and productivity in beef cows. Agriculture Canada Research Station Seminar, Lethbridge Research Station, Lethbridge, Alberta, February 14, 1991.

Reproductive physiology of the bovine female. Mid-Winter Conference of the Alberta Veterinary Medical Association, Calgary, Alberta, February 5, 1991.

Role of the corpus luteum in embryonic development and embryonic loss in ponies and heifers. PhD seminar, Department of Veterinary Science, University of Wisconsin-Madison, Madison, Wisconsin, July 25, 1990.

Follicular dynamics and temporal associations among ovarian events in heifers. American Society of Animal Science and American Dairy Science Association Combined Annual Meeting, Lexington, Kentucky, August 1, 1989.

Embryonic development and embryonic loss in cattle. Department of Herd Medicine and Theriogenology, Western College of Veterinary Medicine, University of Saskatchewan, Saskatchewan, Saskatchewan, January 4, 1989.

Principles of ultrasonography and ultrasonographic examination of the reproductive tract of mares and heifers. Central California Veterinary Medical Association, Fresno, California, June 4, 1988.

Ultrasonographic evaluation of embryonic development and embryonic loss in cattle. Endocrinology-Reproductive Physiology Seminar, Madison, Wisconsin, April 14, 1988.

Ultrasonic evaluation of the bovine conceptus. International Embryo Transfer Society Meeting, Fort Collins, Colorado, January 17, 1988.

Role of the corpus luteum in embryonic development and embryonic loss in heifers and ponies. Department of Veterinary Science, University of Wisconsin-Madison, Madison, Wisconsin, December 30, 1987.

Embryonic development and loss in cattle. Seventy-Second Annual Meeting of the Wisconsin Veterinary Medical Association, Green Bay, Wisconsin, October 6, 1987.

Spontaneous and induced embryonic death in heifers. American Society of Animal Science, Midwestern Section meeting, Des Moines, Iowa, March 24, 1987.

John Patrick Kastelic, DVM, PhD, Dipl. ACT

Dr. Kastelic was raised on a dairy farm near Edmonton, Alberta Canada. He received his DVM (with distinction) from the U. of Saskatchewan (1982), spent 2 years in private veterinary practice and received an MS and PhD in Reproductive Physiology in 1988 and 1990 from the U. of Wisconsin-Madison. After 22 years as a Research Scientist at the Agriculture and Agri-Food Canada Lethbridge Research Centre, in 2012, he was appointed Professor of Theriogenology at the U. of Calgary, Faculty of Veterinary Medicine. He is author/co-author of >300 peer-reviewed papers and 5 book chapters. He has edited thousands of papers, served as Co-Editor-in-Chief of *Theriogenology* (2003-2013) and Co-Editor-in-Chief of the *Canadian Veterinary Journal* (since 2021) and has given presentations and workshops on scientific writing in 18 countries.