

Dr. Chandra Tayade, DVM, MVSc, PhD.

Vice Dean, Basic and Public Health Sciences

Director, MD-PhD; MD-MSc Program

Director, Pharmaceutical Health Management and Innovation, Graduate Diploma

Professor, Department of Biomedical and Molecular Sciences

Faculty of Health Sciences

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Education

2005-Postdoctoral Fellow (Reproductive Immunology), University of Guelph, Canada

2001- Ph.D. (Infectious Immunology): Indian Veterinary Research Institute, India

1998- M.V.Sc (Mucosal Immunology): Indian Veterinary Research Institute, India

1996- DVM (Doctor of Veterinary Medicine): Nagpur Veterinary College, India

Professional Appointments

Nov 2023-Present: Vice Dean, Basic and Public Health Sciences

July 2019-Present: Director MD-PhD Program

July 2018-Present: Director, Pharmaceutical Healthcare Management & Innovation, Graduate Diploma,

July 2019-2023: Associate Dean, Graduate and Post-Doctoral Research

July 2020-Present: Professor, Department of Biomedical and Molecular Sciences

July 2014- June 2020: Associate Professor, Department of Biomedical and Molecular Sciences,

May 2009 –July 2014: Assistant Professor, Department of Biomedical and Molecular Sciences,

July 2008- April 2009: Assistant Professor, Ontario Veterinary College, University of Guelph, Canada.

Mar 2003-June 2008- Postdoctoral Fellow, University of Guelph, Canada

June 2000-Jan 2003- Scientist, Indian Council of Agricultural Research, Government of India

Awards

1. D. L. T. Smith Visitorship and Lecture 2016 University of Saskatchewan, Saskatoon, Canada.
2. Mihran and Mary Basmajian Award for research excellence from Faculty of Health Sciences, Queen's University, Kingston, ON, 2014
3. Knowledge Translation Award from American Society for Reproductive Immunology 2013
4. Early Researcher Award, for promising research in endometriosis from Ministry of Research and Innovation, Canada 2012
5. J Christian Herr Award from American Society for Reproductive Immunology for outstanding contribution in research 2011.
6. Larry Ewing Memorial Award from Society of Study of Reproduction 2008.

Special Recognitions

1. Councilor, Canadian Society for Clinical Investigation 2023-2026
2. Elected Secretary, American Society for Reproductive Immunology 2019-2022
3. Advisory member, Endometriosis Foundation of America 2023-2026
4. International Congress Chair, International Meeting of American Society of Reproductive Immunology, June 2-5, 2015 at Kingston, ON, Canada, June 2-5, 2015

5. Scientific Officer, Clinical Investigation Grant Panel A, Canadian Institutes of Health Research
6. Panel Member, Canadian Institutes of Health Research (CIHR) Clinical Investigation Panel A
7. Panel Member, National Institutes of Health Study Section, USA
8. Associate Editor, BMC Immunology 2012-Continue
9. Meeting Chair: International Pre-SSR (Society for the Study of Reproduction) Symposium on Advances in Reproduction Research, Queen's University, Kingston, ON, July 20, 2013.
10. Meeting Chair: International Symposium of Epigenetic Regulation of Fetal and Placental Development, Queen's University, Kingston, ON, July 14, 2012.

Current Research Funding (Principal Investigator)

1. **Canadian Institutes of Health Research** Operating Grant **2024-2029 (\$941,000)**: Therapeutic targeting of IL-33/ILC2 axis in endometriosis.
2. **Canadian Institutes of Health Research** Operating Grant **2021-2026 (\$880,000)**: Role of endocannabinoids in endometriosis pathophysiology and efficacy of cannabinoids as a novel therapeutic modality.
3. **Canadian Institutes of Health Research** Catalyst Grant: National Women's Health Research Initiative: Innovation Fund **2024-2026 (\$150,000)**
4. **Natural Sciences and Engineering Research Council**, Discovery Grant **2024-2029 (\$246,000)**: Role of extracellular vesicles in pregnancy.
5. **Canadian Institutes of Health Research** Priority Funding 2023-2024 (\$100,000): Therapeutic targeting of IL-33-ILC2 pathway in endometriosis.

Current Pharmaceutical Industry Funding (Principal Investigator)

6. **Belenos Biosciences 2025-2027 (\$150,000)**: Therapeutic targeting of TSLP and IL-13 in endometriosis
7. **Aurinia Pharmaceuticals 2023-2025 (\$140,000)**: Pre-clinical evaluation AUR300 (macrophage inhibitor) in endometriosis.

Previous Funding (Principal Investigator)

1. Canadian Institutes of Health Research Operating Grant 2018-2023 (\$762,000): Therapeutic targeting of immune-inflammation pathway via IL23-IL17 axis in Endometriosis
2. Natural Sciences Engineering and Research Council of Canada, Discovery Grant 2016-2023 (\$318,000): Immune mechanisms at the maternal-fetal interface.
3. Endometriosis Foundation of America 2019-2020 (\$50,000): Deciphering T cell alterations with specific focus on Th17 pathway in endometriosis
4. Bayer Grants4Targets 2016-2018 (\$100,000): IL-17 blocking as therapeutic in endometriosis
5. Canada Foundation for Innovation, new opportunities fund: 2015-2017 (\$250,000): Immune cell contributions to endometrial health and disease
6. Early Researcher Award, Ontario Ministry of Research and Innovation 2012-2017 (\$150,000): Blocking the growth of blood vessels as a new treatment for endometriosis
7. Primus Pharmaceuticals 2015-2017 (\$120,000): Assessment Beta Carophyllene and Flavocoxid for the treatment of Endometriosis
8. Canadian Institutes of Health Research Operating Grant 2011-2016 (\$480,000): Anti-angiogenic therapy for endometriosis

Invited Presentations

1. Invited Speaker, American Society for Reproductive Immunology, Lexington, Kentucky, USA, May 24-28, 2026
2. Invited Speaker, University of Dublin, Ireland. April 20, 2026
3. Invited Speaker/Moderator, Endometriosis Foundation of America, New York, USA March 3-5, 2026
4. Invited Speaker, World Endometriosis Congress, May 21-24, 2025 Sydney, Australia,
5. Invited Speaker, American Society of Reproductive Immunology meeting, May 18-22, 2025, Houston, USA
6. Invited Speaker, World Endometriosis Congress, Edinburgh UK, May 2-6, 2023.
7. Invited Speaker, European Society of Human Reproduction and Embryology meeting June 25-28, 2023 Copenhagen Denmark.
8. Invited Speaker, Endometriosis Foundation of America, medical conference. New York, USA March 31-2, 2023
9. Invited Speaker, 69th Annual Meeting of the Society for Reproductive Investigation, Colorado, USA, March 15-19, 2022
10. Invited Speaker, American Society of Reproductive Immunology, Nashville, USA, May 22-26, 2022
11. Invited Speaker, Annual Meeting of the American Society of Reproductive Immunology, Grand Rapids, USA, June 17-20. 2019
12. Invited Speaker, International Society of Immunology of Reproduction, Osaka, Japan, Nov 15-18, 2019
13. Invited Speaker, 51st Annual Meeting of the Society for the Study of Reproduction (SSR), New Orleans, USA, July 10-13, 2018.
14. Invited Speaker and Session Moderator, 37th Annual Meeting of the American Society of Reproductive Immunology, Chicago, USA, September 17-20. 2017
15. Invited Speaker and Session Moderator, 64th Annual Meeting of the Society for Reproductive Investigation, Orlando, USA, March 16-19, 2017
16. Invited Plenary Speaker, 10th International Conference on Pig Reproduction, Missouri, Columbia, USA, June 11-14, 2017
17. Invited Speaker: 63rd Annual Meeting of the Society for Reproductive Investigation, Montreal, March 16-19, 2016
18. Invited Speaker: 71st Annual Meeting of American Society for Reproductive Medicine, Baltimore, USA, October 17-21, 2015.
19. Invited Speaker: World Endometriosis Congress, Sao Paulo, Brazil, April 30 to May 2, 2014.

Member, Editorial Board

1. Section Editor: Journal of Immunology
2. Associate Editor: BMC Immunology
3. Section Editor: Scientific Reports
4. Section Editor: Frontiers in Immunology
5. Editorial Board Member, American Journal of Reproductive Immunology

Panel Member/ Grant Reviewer for National and International Funding Agencies

1. Canadian Institutes of Health Research, CIHR, CANADA
2. Natural Sciences and Engineering Research Council, NSERC, CANADA

3. Heart and Stroke Foundation, CANADA
4. Physician Services Incorporated Foundation, CANADA
5. National Institutes of Health (NIH), USA
6. US-Israel Binational Science Foundation, USA
7. The Wellcome Trust, the UNITED KINGDOM
8. Sheffield Hospitals Charitable Trust, the UNITED KINGDOM
9. Health Research Board, IRELAND
10. Auckland Medical Research foundation, NEW ZEALAND
11. National Health and Medical Research Council, AUSTRALIA
12. Research Grants Council, HONG KONG
13. Hungarian Scientific Research Fund, HUNGARY
14. National Science Centre, POLAND
15. National Research Foundation, SOUTH AFRICA

Ad-hoc Reviewer for Journals (Selected)

Cell, Nature Communications, Cell Reports, Science Translational Medicine, Journal of Clinical Investigation, Journal of Immunology, Apoptosis, Molecular Biology Reports, Trends in Endocrinology and Metabolism, Molecular Genetics and Metabolism, Biology of Reproduction, Fertility Sterility.

Publications (Career Total 105)

h-Index: 43

Total citations: 7221

Trainees highlighted with *

1. McCallion A*, Zutautas K*, Sisnett DJ*, Yolmo P, Ravishanker K , Hoang D*, Contributions of T helper 9 cells in endometriosis-associated inflammation and lesion growth. *Journal of Immunology* (In Press).
2. Sisnett DJ*, Zutautas K*, Hoang D*, Ravishanker KA*, Holmes J*, Wodz A*, Tayade C.. Immune dysregulation in endometriosis: The T cell perspective. *Frontiers in Immunology*. 2026.1: 1-10.
3. Sisnett DJ, Zutatutas KB, McCallinin A, Holmes J, King K,. Pudwell J, Bogie O, Tayade C. An investigation of the IL-23/Th17 axis and transcriptomic profiles of T helper subsets in endometriosis. 2026 *iScience*. (In Press).
4. Aleksieva S*, Lingegowda H*, Sisnett DJ*, McCallion A*, Zutautas K*, Childs T, Lessey B and Tayade C. Thymic stromal lymphopoietin contributes to endometriotic lesion proliferation and disease associated inflammation. *J Immunol* 2025. 214(3):399-4122025
5. Zutautas KB*, Yolmo P, Xu M, Childs T, Koti M, Tayade C. Tertiary lymphoid structures in endometriosis. *F S Sci*. 2024 Nov;5(4):335-341.
6. Lingegowda H*, Zutautas KB*, Wei Y, Yolmo P, Sisnett DJ*, McCallion A*, Koti M, Tayade C. Endocannabinoids and their receptors modulate endometriosis pathogenesis and immune response. *Elife*. 2024 Aug 9;13:RP96523.
7. Sisnett DJ*, Zutautas KB*, Miller JE*, Lingegowda H*, Ahn SH*, McCallion A*, Bougie O, Lessey BA, Tayade C. The Dysregulated IL-23/TH17 Axis in Endometriosis Pathophysiology. *J Immunol*. 2024 May 1;212(9):1428-1441.

8. Zutautas KB*, Sisnett DJ*, Miller JE*, Lingegowda H*, Childs T, Bougie O, Lessey BA, Tayade C. The dysregulation of leukemia inhibitory factor and its implications for endometriosis pathophysiology. *Frontiers in Immunology*. 2023. 23;14:1089098
9. Miller JE*, Koti M, Tayade C. IL-33-ILC2 axis in the female reproductive tract. *Trends in Molecular Medicine*. 2022 Jul;28(7):569-582.
10. Miller JE*, Lingegowda H*, Sisnett D*, Metz C, Gregersen P, Koti M, Tayade C. 2022. TH17 axis and endometrial macrophage disruption in menstrual effluent provides potential insights into the pathogenesis of endometriosis. *Fertility and Sterility Science* 3(3):279-287.
11. Lingegowda H*, Williams BJ*, Spiess KG*, Sisnett DJ*, Lomax AE, Koti M, Tayade C. Role of the endocannabinoid system in the pathophysiology of endometriosis and therapeutic implications. *J Cannabis Research*. 2022 Oct 7;4(1):54
12. Lingegowda H*, Miller JE*, Marks RM*, Symons LK*, Alward T, Lomax AE, Koti M, Tayade C 2021. Synthetic Cannabinoid Agonist WIN 55212-2 Targets Proliferation, Angiogenesis, and Apoptosis *via* MAPK/AKT Signaling in Human Endometriotic Cell Lines and a Murine Model of Endometriosis. *Frontiers in Reproductive Health* Oct 5, 2021 3:726936.
13. Lingegowda H*, Miller JE*, McCallion A*, Childs T*, Lessey BA, Koti M, Tayade C 2021. Implications of dysregulated endocannabinoid family members in the pathophysiology of endometriosis. *Fertility and Sterility Science* 2(4): 419-430.
14. McCallion A*, Zutautas K*, Sisnett D*, Hayati D*, Spiess S*, Aleksieva S*, Lingegowda H*, Koti M, Tayade C 2022. Endometriosis through an immunological lens: a pathophysiology based in immune dysregulation. *Exploration of Immunology* DOI:10.37349/ei.2022.00062.
15. Miller JE*, Lingegowda H*, Symons LK*, Bougie O*, Young SL*, Lessey BA, Koti M, Tayade C. IL-33 activates group 2 innate lymphoid cell expansion and modulates endometriosis. *JCI Insight*. 2021 Dec 8;6(23):e149699. doi: 10.1172/jci.insight.149699.
16. Bidarimath M*, Lingegowda H*, Miller JE*, Koti M, Tayade C. Insights Into Extracellular Vesicle/Exosome and miRNA Mediated Bi-Directional Communication During Porcine Pregnancy. *Frontiers in Veterinary Science*. 2021 Apr 15;8:654064
17. Dickson MA*, Peterson N, McRae KE*, Pudwell J, Tayade C, Smith GN. Carbon monoxide increases utero-placental angiogenesis without impacting pregnancy specific adaptations in mice. *Reproductive Biology and Endocrinology*. 2020 May 14;18(1):49.
18. Miller JE*, Ahn SH*, Marks RM*, Monsanto SP*, Fazleabas AT, Koti M, Tayade C. IL-17A Modulates Peritoneal Macrophage Recruitment and M2 Polarization in Endometriosis. *Frontiers in Immunology*. 2020 Feb 14;11:108.
19. Dasgupta A, Chen KH, Wu D, Hoskin V, Mewburn J, Lima PDA, Parlow LRG, Hindmarch CCT, Martin A, Sykes EA, Tayade C, Lightbody ED, Madarnas Y, SenGupta SK, Elliott BE, Nicol CJB, Archer SL. An epigenetic increase in mitochondrial fission by MiD49 and MiD51 regulates the cell cycle in cancer: Diagnostic and therapeutic implications. *FASEB J*. 2020 Apr;34(4):5106-5127.
20. Symons LK*, Miller JE*, Tyryshkin K, Monsanto SP*, Marks RM*, Lingegowda H*, Vanderbeck K, Childs T, Young SL, Lessey BA, Koti M, Tayade C. Neutrophil recruitment and function in endometriosis patients and a syngeneic murine model. *FASEB J*. 2020 Jan;34(1):1558-1575.
21. Khalaj K*, Miller JE*, Lingegowda H*, Fazleabas AT, Young SL, Lessey BA, Koti M, Tayade C. Extracellular vesicles from endometriosis patients are characterized by a unique miRNA-lncRNA signature. *JCI Insight*. 2019 Sep 19;4(18):e128846.

22. Kay VR*, Cahill LS, Hanif A, Sled JG, Carmeliet P, Tayade C, Croy BA. Adult Pgf^{-/-} mice behaviour and neuroanatomy are altered by neonatal treatment with recombinant placental growth factor. *Scientific Reports*. 2019 Jun 26;9(1):9285.
23. Kay VR*, Rätsep MT, Cahill LS, Hickman AF, Zavan B, Newport ME, Ellegood J, Laliberte CL, Reynolds JN, Carmeliet P, Tayade C, Sled JG, Croy BA. Effects of placental growth factor deficiency on behavior, neuroanatomy, and cerebrovasculature of mice. *Physiol Genomics*. 2018 Oct 1;50(10):862-875.
24. Symons LK*, Miller JE*, Kay VR*, Marks RM*, Liblik K*, Koti M, Tayade C. The Immunopathophysiology of Endometriosis. *Trends Mol Med*. 2018 Sep;24(9):748-762
25. Ventura NM, Li TY, Tse MY, Richard L, Tayade C, Jin AY, Andrew RD, Pang SC. Developmental origins of pregnancy-induced cardiac changes: establishment of a novel model using the atrial natriuretic peptide gene-disrupted mice. *Mol Cell Biochem*. 2018 Dec;449(1-2):227-236.
26. Miller JE*, Monsanto SP*, Ahn SH*, Khalaj K*, Fazleabas AT, Young SL, Lessey BA, Koti M, Tayade C. Interleukin-33 modulates inflammation in endometriosis. *Sci Rep*. 2017 Dec 20;7(1):17903
27. Miller JE*, Ahn SH*, Monsanto SP*, Khalaj K*, Koti M, Tayade C Implications of immune dysfunction on endometriosis associated infertility. *Oncotarget*. 2017 Jan 24;8(4):7138-7147.
28. Palomino WA, Tayade C, Argandoña F, Devoto L, Young SL, Lessey BA. The endometria of women with endometriosis exhibit dysfunctional expression of complement regulatory proteins during the mid secretory phase. *J Reprod Immunol*. 2018;125:1-7.
29. Yoo JY, Kim TH, Fazleabas AT, Palomino WA, Ahn SH, Tayade C, Schammel DP, Young SL, Jeong JW, Lessey BA. KRAS Activation and over-expression of SIRT1/BCL6 Contributes to the Pathogenesis of Endometriosis and Progesterone Resistance. *Sci Rep*. 2017 Jul 28;7(1):6765.
30. Khalaj, K*, Miller JE*, Fenn C, Ahn SH, Monsanto SP, Symons L, Koti M, Tayade C. 2017. RNA binding proteins in female reproductive pathologies. *American Journal of Pathology*. 187(6): 1200-1210.
31. Ahn S*, Singh V and Tayade C. 2017. Biomarkers in endometriosis: Opportunities and challenges. *Fertility and Sterility*. 107(3):523-532.
32. Bidarimath M*, Khalaj K*, Krdili R, Kan F, Koti M. and Tayade C. 2017. Extracellular vesicle mediated intercellular communication at the porcine maternal-fetal interface: A new paradigm for conceptus-endometrial cross-talk. *Scientific Reports*. Jan 12;7:40476.
33. Bidarimath M*, Tayade C. Pregnancy and spontaneous fetal loss: A pig perspective. *Mol Reprod Dev*. 2017 Sep;84(9):856-869.
34. Khalaj K*, Ahn S*, Bidarimath M*, Nasirzadeh Y*, Singh S*, Fazleabas AT, Young SL, Lessey BA, Koti M and Tayade C. 2017. A balancing act: RNA binding protein HuR/TTP axis in endometriosis patients. *Scientific Reports* 7(1):5883..
35. Monsanto S*, Daher S, Ono E, Pendoleski K, Triana E, Mattar R and Tayade C. 2017. Cervical cerclage placement decreases local levels of proinflammatory cytokines in patients with cervical insufficiency, *American Journal of Obstetrics and Gynecology* 2017 Oct;217(4):455.e1-455.e8.
36. Kay V*, Tayade C. Carmeliet P, Croy BA. 2017. Influences of Placental Growth Factor on Mouse Retinal Vascular Development. *Developmental Dynamics* Sep;246(9):700-712.
37. Miller JE*, Ahn SH*, Monsanto SP*, Khalaj K*, Koti M, Tayade C. 2016. Implications of immune dysfunction on endometriosis associated infertility. *Oncotarget* 2016 doi: 10.18632/oncotarget

38. Khalaj K*, Luna RL, Rocha de França ME, de Oliveira WH, Peixoto CA, Tayade C. RNA binding protein, tristetraprolin in a murine model of recurrent pregnancy loss. *Oncotarget*. 2016 Oct 9. doi: 10.18632/oncotarget
39. Yoo JY, Jeong JW, Fazleabas AT, Tayade C, Young SL, Lessey BA. 2016. Protein Inhibitor of Activated STAT3 (PIAS3) Is Down-Regulated in Eutopic Endometrium of Women with Endometriosis. *Biology of Reproduction*. 2016 May 25. pii: biolreprod.115.137158.
40. Ahn S*, Khalaj K*, Young S, Lessey B, Koti M and Tayade C. 2016. Immune-inflammation gene signatures in endometriosis patients. *Fertility and Sterility* S0015-0282(16)61408-5.
41. Edwards A*, Nakamura D*, Ahn S* and Tayade C. 2016. Chronic effects of an anti-angiogenic thrombospondin-1 mimetic peptide, ABT-898, on female mouse reproductive outcomes. *Reproductive Biology and Endocrinology* 2016 Sep 7;14(1):56.
42. Bidarimath M*, Khalaj K*, Kridli RT*, Wessels JM*, Koti M, Tayade C. Altered expression of chemokines and their receptors at porcine maternal-fetal interface during early and mid-gestational fetal loss. *Cell Tissue Research*. 2016 Dec;366(3):747-761.
43. Murphy MS*, Tayade C, Smith GN. 2016. Maternal Circulating microRNAs and Pre-Eclampsia: Challenges for Diagnostic Potential. *Molecular Diagnosis and Therapy*. 21(1):23-30
44. Kasawara KT*, Cotechini T, Macdonald-Goodfellow SK, Surita FG, Pinto E Silva JL, Tayade C, Othman M, Ozolinš TR, Graham CH. 2016. Moderate Exercise Attenuates Lipopolysaccharide-Induced Inflammation and Associated Maternal and Fetal Morbidities in Pregnant Rats. *PLoS One*. 2016 Apr 28;11(4):e0154405
45. Monsanto SP*, Edwards AK*, Zhou J, Nagarkatti P, Nagarkatti M, Young SL, Lessey BA, Tayade C. Surgical removal of endometriotic lesions alters local and systemic proinflammatory cytokines in endometriosis patients. *Fertility and Sterility* 2015 Dec 14. pii: S0015-0282(15)02131-7.
46. Ahn SH*, Edwards AK*, Singh SS, Young SL, Lessey BA, Tayade C. 2015. IL-17A Contributes to the Pathogenesis of Endometriosis by Triggering Proinflammatory Cytokines and Angiogenic Growth Factors. *Journal of Immunology*. 2015 Sep 15;195(6):2591-600.
47. Kridli RT*, Khalaj K*, Bidarimath M*, Tayade C. Placentation, maternal-fetal interface, and conceptus loss in swine. *Theriogenology*. 2015 Aug 7. pii: S0093-691X(15)00424-0
48. M Bidarimath*, AK Edwards*, JM Wessels*, K Khalaj* and C Tayade. 2015. Distinct microRNA expression in endometrial lymphocytes, endometrium and trophoblast during spontaneous porcine fetal loss. *Journal of Reproductive Immunology* 107:64-79.
49. Bidarimath M*, Edwards AK*, Tayade C. 2015. Laser capture microdissection for gene expression analysis. *Methods in Molecular Biology*. 2015;1219:115-37
50. K. Khalaj*, J Wessels*, R. Kridli*, AK Edwards*, M Bidarimath* and C. Tayade. 2015. mRNA Destabilizing Factors: Tristetraprolin Expression at the Porcine Maternal-Fetal Interface. *American Journal of Reproductive Immunology* 73(5):402-16..
51. SooHyun Ahn*, Stephany P. Monsanto*, Caragh Miller*, Sukhbir S. Singh, Richard Thomas and Chandrakant Tayade. Pathophysiology and Immune Dysfunction in Endometriosis. 2015. *Biomed Research International* , 2015:795976. doi: 10.1155/2015/795976.
52. Bidarimath M*, Khalaj K*, Wessels JM*, Tayade C. MicoRNAs, immune cells and pregnancy. *Cellular and Molecular Immunology*. 2014 Nov;11(6):538-547.
53. Tessier, DR, Raha S, Holloway, AC, Yockell-Lelièvre, J, Tayade C and Gruslin A. Characterization of immune cells and cytokines in the rat utero-placental unit during mid-late gestation. *Journal of Reproductive Immunology* 2015 110:89-101

54. M. Murphy*, R. Casselman, C, Tayade and G Smith. 2015. Differential expression of plasma miRNA in pre-eclamptic patients at delivery and one year postpartum. *American Journal of Obstetrics and Gynecology* 213(3):367.e1-9
55. N Ventura, T Li, M Tse, D Andrew, C Tayade, A Jin and S Pang. (2015). Onset and Regression of Pregnancy-Induced Cardiovascular Alterations in Gestationally-Hypertensive Mice: The Role of the Natriuretic Peptide System. *Biology of Reproduction* 2015 Dec;93(6):142.
56. M Murphy*, C Tayade, G Smith. (2015). Evidence of inflammation and predisposition toward Metabolic Syndrome after pre-eclampsia. *Pregnancy Hypertension* 2015 Oct;5(4):354-8
57. Nakamura D*, Edwards AK*, Thomas R and Tayade C. 2015. Compatibility of a novel thrombospondin-1 analog with fertility and pregnancy in a xenograft mouse model of endometriosis. *PLoS One* 10(3): e0121545.
58. Kerr A*, Kridli RT*, Khalaj K*, Wessels JM*, Hahnel A, Tayade C. 2014. Expression of leptin and its long form receptor at the porcine maternal-fetal interface: contrasting healthy and arresting conceptus attachment sites during early and mid-pregnancy. *Reprod Biol Endocrinol.* 2014 Sep 23;12:91.
59. Edwards AK*, Ramesh S*, Singh V*, Tayade C. A peptide inhibitor of synuclein- γ reduces neovascularization of human endometriotic lesions. *Mol Hum Reprod.* 2014 Oct;20(10):1002-8.
60. Wessels JM*, Khalaj K*, Kridli RT*, Edwards AK*, Bidarimath M*, Tayade C. Are pharmacological interventions between conception and birth effective in improving reproductive outcomes in North American swine? *Reprod Domest Anim.* 2014 Aug;49(4):536-42.
61. M. Bidarimath*, AK Edwards* and C. Tayade. 2014. Laser capture microdissection and microRNA analysis. *Methods in Molecular Biology: Apoptosis and Cancer* 2015;1219:115-37.
62. JM Wessels*, AK Edwards*, K Khalaj*, R Kridli* and C Tayade. 2013. The MicroRNAome of Pregnancy: Deciphering miRNA Networks at the Maternal-Fetal Interface. *PLoS ONE* 2013 Nov 22;8(11):e72264.
63. C. Tayade, AK Edwards*, M Bidarimath. 2013. Laser capture microdissection. *Invited book chapter In: Protocols for Studies of the Placenta and Pregnancy in Mice (Elsevier Press)*
64. Edwards AK, Lima P, Carniats A, Jansen-Pang J, Tse D, Nakamura D, Tayade C, Yamada AT. 2013. Histology of mouse uterus. *Invited book chapter In: Protocols for Studies of the Placenta and Pregnancy in Mice (Elsevier Press)*
65. AK Edwards*, D. Nakamura*, S. Virani*, and C. Tayade. 2013 An overview of angiogenesis, immune mechanisms and therapeutic strategies in endometriosis. *Journal of Reproductive Immunology* 97(1):85-94.
66. D. Nakamura*, AK Edwards*, R, Thomas and C. Tayade. 2013. Thrombospondin-1 analog, ABT-898, inhibits endometriotic lesion vascularization but does not affect trans-generational pregnancy outcomes in a murine model. *MS Under Review.*
67. BA Croy and C. Tayade 2013. Recommendation of music theme for placenta research. *Placenta* 33(12):1058.
68. D. Nakamura*, S. Virani*, AK Edwards*, and C. Tayade. 2012. Thrombospondin-1 mimetic, ABT-898 reduces survival and growth of endometriotic lesions in a mouse model of endometriosis. *American Journal of Pathology* 181(2):570-82.
69. S. Virani*, D. Nakamura*, AK Edwards, and C. Tayade. 2012. Stromal cell derived factor-1 recruits endothelial progenitor cells and support neoangiogenesis in endometriotic lesions. *American Journal of Reproductive Immunology (In Press).*

70. AK Edwards*, JM Wessels*, A Kerr*, and C Tayade. 2012. An overview of molecular and cellular mechanisms during porcine pregnancy success or failure. *Reproduction in Domestic Animals* 47 Suppl 4:394-401.
71. Lima PD*, Degaki KY, Tayade C, Yamada AT. 2012. Heterogeneity in composition of mouse uterine natural killer cell granules. *Journal of Leukocyte Biology* 92(1):195-204.
72. JM Wessels*, AK Edwards*, C. Zettler, and C Tayade. 2011. Selection and validation of suitable housekeeping gene for microRNA expression studies in reproductive tissues. *PLoS One* 6(12):e28940.
73. MS Taboski, DCF Sealey, J Dorrens, C Tayade, DH Betts, and L, Harrington. 2012. Long telomeres bypass the requirement for telomere maintenance in human tumorigenesis. *Cell Reports* 1(2):91-8.
74. JM Wessels*, AK Edwards*, and C Tayade. 2012. Manipulation of litter size in commercial swine using pharmacological interventions. *Invited Book Chapter for Comprehensive Biotechnology, Elsevier, UK.*
75. AK Edwards*, MJ vanden Heuvel*, JM Wessels*, J LaMarre, and C Tayade. 2011. Expression of fibroblast growth factor, platelet derived growth factor, thrombospondin-1 and their receptors at the porcine maternal fetal interface. *Reproductive Biology and Endocrinology*, 9:5.
76. G Miese-Looy*, AK Edwards*, MJ vanden Heuvel* and C Tayade. 2011. Role of insulin like growth factor family members in early and mid-gestational porcine fetal loss. *Journal of Reproduction and Development* 58(1):51-60.
77. P Dyce, J. Liu, C. Tayade, D.H. Betts, and J. Li. 2010. In vitro and In vivo germ line potential of stem cells derived from newborn mouse skin. *PLoS One*, 2011; 6(5):e20339.
78. J. M. Wessels*, N. F. Linton*, M. J. van den Heuvel*, A. K. Edwards*, S. A. Cnossen*, B.A. Croy and C. Tayade. 2010. Expression of Chemokine Decoy Receptors and their Ligands at the Porcine Maternal-fetal Interface. *Immunology and Cell Biology*, 89(2):304-13.
79. N. F. Linton*, J. M. Wessels*, S. A. Cnossen*, M. J. van den Heuvel*, B.A. Croy and C. Tayade. 2010. Angiogenic DC-SIGN+ cells are present at the attachment sites of epitheliochorial placentae. *Immunology and Cell Biology*, 88 (1): 63-71.
80. J. T. Wilcox, E. Semple, C. Gartley, B. A. Brisson, S. D. Perrault, D. A. F. Villagómez, C. Tayade, S. Becker, R. Lanza, and D. H. Betts. 2009. Characterization of canine embryonic stem cell lines derived from different niche microenvironments. *Stem Cells and Development* 18(8):1167-78.
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82. B.A. Croy, J.C. Zhang*, F. Colucci, H. Yadi and A.T. 2009. Analysis of Uterine Natural Killer Cells in Mice In "Natural Killer Cell Protocols: Cellular and Molecular Methods" *Methods in Molecular Biology Series*, Humana Press. Kerry Campbell and Marco Colona, Editors.
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Conference Presentations

1. Zutautas K.B, Sisnett DJ, Tayade C. 2025. Group 2 innate lymphoid cells are critical for interleukin-33 driven inflammation in endometriosis. Canadian Society of Immunology meeting, April 13-16 2025. Gatineau, QC, CAN
2. Zutautas K.B, Tayade C. 2025. Interleukin-33 driven mesenchymal stromal cells suppress group 2 innate lymphoid cell proliferation in endometriosis. American Association of Immunology meeting, May 4-7 2025. Honolulu, HI, USA
3. Zutautas K.B, Wodz A, Tayade C. 2025. Interleukin-33 driven group 2 innate lymphoid cell – regulatory T cell axis in endometriosis pathophysiology. 16th World Congress on Endometriosis meeting, May 21-25 2025. Sydney, AUS
4. Zutautas K.B, Tayade C. 2024. Investigating the relationship between group 2 innate lymphoid cells and multipotent mesenchymal stromal cells in endometriosis. Queen's University Health Sciences Research Day, July 10 2024. Kingston, ON, CAN
5. Sisnett, D.J., Zutautas, K.B., Bougie, O., Tayade, C. 2025. An investigation of the IL-23/Th17 axis and transcriptomic profiles of Th1, Th1/17, and Th17 cells in endometriosis patients as compared to controls. American Association of Immunology meeting, May 4-7, 2025. Honolulu, HI, USA.
6. Holmes, J.P., Zutautas, K.B., Tayade, C. 2025. Endometriosis patient-derived small extracellular vesicles carry unique signatures associated with lesion growth and disease progression. International Society of Extracellular Vesicles 2025 Annual Meeting, April 23-27th 2025, Vienna, Austria
7. Ravishanker K, McCallion A, Vo Hoang D, Lingegowda H, Tayade C. 2025. The Role of Cannabinoids in Modulating Neuroinflammatory Pathways in Endometriosis. Peripheral Nerve Society Annual Meeting, May 17 - 20, 2025. Edinburgh, SCT, UK
8. McCallion A, Sisnett DJ, Zutautas KB, Tayade C. 2024. Th9 cells and IL-9 signaling in endometriosis pathophysiology. James A Low Research Day, April 26 2024. Kingston, ON, CAN
9. Sisnett, D.J., Zutautas, K.B., Miller, J.E., Lingegowda, H., Ahn, S.H., McCallion, A., Bougie, O., Lessey, B.A., Tayade, C. 2024. The IL-23/Th17 axis and its role in endometriosis pathophysiology. Queen's University Health Sciences Research Day, July 10, 2024. Kingston, ON, CAN.
10. Aleksieva, S., Sisnett, D. J., Zutautas, K.B., Lingegowda, H., Tayade, C. Thymic Stromal Lymphopoietin Contributes to Endometriotic Lesion Proliferation and Disease-Associated Inflammation. Society for Reproductive Investigation 2024 Annual Meeting, March 12-16th, Vancouver, British Columbia, Canada.

11. Ravishanker K, McCallion A, Lingegowda H, Tayade C. 2024. Determining the Role of Cannabinoids in Modulating Neuroinflammatory Pathways in Endometriosis. Queen's Health Sciences Research Day, July 10, 2024. Kingston, ON, CAN
12. Ravishanker K, McCallion A, Lingegowda H, Tayade C. 2024. Determining the Role of Cannabinoids in Modulating Neuroinflammatory Pathways in Endometriosis. James A Low Research Day, April 26, 2024. Kingston, ON, CAN
13. Ravishanker K, McCallion A, Lingegowda H, Tayade C. 2023. Determining the Role of Cannabinoids in Modulating Neuroinflammatory Pathways in Endometriosis. Queen's University Health Sciences Research Day, Jun 27, 2023. Kingston, ON, CAN
14. Lingegowda H, Zutautas K.B, Wei Y, Yolmo P, Sisnett D.J, McCallion A, Koti M, Tayade C. 2023. Dysregulation of endocannabinoid system in the pathophysiology of endometriosis. 15th World Congress on Endometriosis meeting, May 3-6 2023. Edinburgh, SCT, UK
15. McCallion A, Sisnett DJ, Zutautas KB, Tayade C. 2023. Interleukin-9 and estrogen signaling in endometriosis pathophysiology. 15th World Congress on Endometriosis meeting, May 3-6 2023. Edinburgh, SCT, UK
16. McCallion A, Sisnett DJ, Zutautas KB, Tayade C. 2023. Th9 cells and estrogen signaling in endometriosis pathophysiology. James A Low Research Day, April 21 2023. Kingston, ON, CAN
17. McCallion A, Sisnett DJ, Zutautas KB, Tayade C. 2023. Defining the Th9-mast cell relationship in endometriosis pathophysiology. 70th Annual Meeting of Society of Reproductive Investigation, March 21-25 2023. Brisbane, QLD, AUS.
18. Aleksieva, S., Sisnett, D. J., Zutautas, K.B., Lingegowda, H., Tayade, C. Examining the Role of Thymic Stromal Lymphopoietin in the Endometriotic Lesion Microenvironment. Centre for Health Innovation Symposium, May 25th, 2023, Kingston, Ontario, Canada
19. Sisnett, D.J., Zutautas, K.B., Miller, J.E., Lingegowda, H., Bougie, O., Lessey, B.A., Tayade, C. 2023. IL-23 and the dysregulated Th17/IL-17 axis in endometriosis. 15th World Congress on Endometriosis meeting, May 3-6, 2023. Edinburgh, SCT, UK.
20. Zutautas K.B, Tayade C. 2023. Characterization and expansion of group 2 innate lymphoid cells in endometriosis. Canadian Society for Immunology meeting, June 6-9 2023. Orford, QC, CAN
21. Zutautas K.B, Minqi X, Childs, T, Koti M, Tayade C. 2023. Presence of tertiary lymphoid structures in endometriosis. 15th World Congress on Endometriosis meeting, May 3-6 2023. Edinburgh, SCT, UK
22. Zutautas K.B, Minqi X, Childs, T, Koti M, Tayade C. 2023. Presence of tertiary lymphoid structures in endometriosis. James A Low Research Day, April 21 2023. Kingston, ON, CAN
23. Sisnett, D.J., Zutautas, K.B., Miller, J.E., Lingegowda, H., Bougie, O., Lessey, B.A., Koti, M., Tayade, C. 2022. IL-23 and the IL-23/Th17 Axis: A Role in Endometriosis Pathophysiology? Queen's University Health Sciences Research Day, June 8, 2022. Kingston, ON, CAN.
24. Sisnett, D.J., Zutautas, K.B., Miller, J.E., Lingegowda, H., Bougie, O., Lessey, B.A., Koti, M., Tayade, C. 2022. The Role of IL-23 and the IL-23/Th17 Axis in the Pathophysiology of Endometriosis. James A Low Research Day, April 8, 2022. Kingston, ON, CAN.
25. Sisnett D, Miller J, Lingegowda H, Zutautas K, Lessey, B, Koti M and Tayade C. The Role of IL-23 and the IL-23/Th17 Axis in Endometriosis Pathophysiology. Society for Reproductive Investigation meeting, March 15-18, 2022. Denver, CO, USA.
26. Zutautas K, Lingegowda H, Sisnett D, Lessey, B, Koti M and Tayade C. 2022. Role of Leukemia inhibitory factor in endometriosis pathogenesis. Society for Reproductive Investigation meeting, March 15-18, 2022. Denver, CO, USA.

27. McCallion A, Lingegowda H, Zutautas K, Lessey, B, Koti M and Tayade C. 2022. Mast cells contribute to angiogenesis and inflammation in endometriosis. Society for Reproductive Investigation meeting, March 15-18, 2022. Denver, CO, USA.
28. IL-33 mediated ILC2 cells contribute endometriosis pathology. 2021. American Association of Immunology virtual meeting 2021. AAI Trainee Abstract Award J. Miller.
29. Symons L, Monsanto S, Ahn SH, Fazleabas A, Young S, Lessey B, Tayade C. 2018. The role of neutrophils endometriosis associated chronic inflammation. Best Poster Award, Symons L. Society for Reproductive Investigation meeting, March 6 - 10, 2018, San Diego, CA, USA
30. Miller, J, Monsanto S, Ahn S, Young S, Lessey B, Koti M, TAYADE C Chronic inflammation is endometriosis is modulated by IL-33. Society for Reproductive Investigation meeting, March 6 - 10, 2018, San Diego, CA, USA
31. SH Ahn, Khalaj K, Young SLY, Lessey BA and C Tayade. 2016. Immune dysfunction in endometriosis. 63rd Annual Meeting of Society for Reproductive Investigation, March 16-19, 2016, Montreal, Canada
32. M Bidarimath, K Khalaj, RT Kridli, JM Koti M, C Tayade. 2016. Exosome mediated transfer of miRNAs at the maternal-fetal interface. 63rd Annual Meeting of Society for Reproductive Investigation, March 16-19, 2016, Montreal, Canada
33. K Khalaj, SH Ahn, M Bidarimath, SS Singh, C Tayade. 2016. Role of mRNA stabilizers in the pathogenesis of endometriosis. 63rd Annual Meeting of Society for Reproductive Investigation, March 16-19, 2016, Montreal, Canada
34. SP Monsanto, SH Ahn, B Lessey, C Tayade. 2016. Effects of flavocoxid treatment on a mouse model of endometriosis. 63rd Annual Meeting of Society for Reproductive Investigation, March 16-19, 2016, Montreal, Canada
35. Miller J, Monsanto S, AHn S, Khalaj K, Young SL, Lessey BA and Tayade C. 2016. Role of IL-33 in inducing inflammation in endometriosis. 63rd Annual Meeting of Society for Reproductive Investigation, March 16-19, 2016, Montreal, Canada
36. SH Ahn, C Miller, B McLaughlin, K Nakatsu, C Tayade. 2015. The role of heme oxygenase (HO)-1 and its inhibitor, QC-282, in endometriosis. 35th Annual Meeting of American Society of Reproductive Immunology, June 2-5, 2015, Kingston, ON, Canada
37. M Bidarimath, K Khalaj, RT Kridli, JM Wessels, C Tayade. 2015. Differential regulation of chemokines and lymphocyte recruitment at the porcine maternal-fetal interface. 35th Annual Meeting of American Society of Reproductive Immunology, June 2-5, 2015, Kingston, ON, Canada
38. KT Kasawara, T Cotechini, SK Macdonald-Goodfellow, TRS Ozolin, FG Surita, J Luiz Pinto Silva, C Tayade, M Othman, CH Graham. 2015. Effects of an exercise training program and fetal outcomes during aberrant inflammation in pregnant rats. 35th Annual Meeting of American Society of Reproductive Immunology, June 2-5, 2015, Kingston, ON, Canada
39. K Khalaj, SH Ahn, M Bidarimath, SS Singh, C Tayade. 2015. Attenuated mRNA stability in endometriosis. 35th Annual Meeting of American Society of Reproductive Immunology, June 2-5, 2015, Kingston, ON, Canada
40. NM Ventura, TY Li1, MY Tse, L Richard, RD Andrew, C Tayade, AY Jin, SC Pang. 2015. Onset and regression of pregnancy induced cardiac hypertrophy in atrial natriuretic peptide gene-disrupted mice. 35th Annual Meeting of American Society of Reproductive Immunology, June 2-5, 2015, Kingston, ON, Canada

41. SP Monsanto, SH Ahn, B Lessey, C Tayade. 2015. Effects of flavocoxid treatment on a mouse model of endometriosis. 35th Annual Meeting of American Society of Reproductive Immunology, June 2-5, 2015, Kingston, ON, Canada
42. S Ahn, A Edwards, DS Nakamura, BA Lessey, C Reifel, C Tayade. 2014. Expression of IL-17 in endometriosis. 34th annual meeting of the American Society for Reproductive Immunology, June 2-5 2014 New York USA.
43. S Ahn, A Edwards, DS Nakamura, BA Lessey, C Reifel, C Tayade. 2014. Interleukin-17A expression in endometriotic tissue and plasma samples from women with endometriosis. Experimental Biology/American Association of Anatomists Meeting, San Diego, California, April 4-6, 2014
44. M. Bidarimath, A. K. Edwards, J. Wessels, Khalaj K, Kridli RT and C. Tayade. 2014. Distinct microRNA expression in endometrial lymphocytes, endometrium and trophoblast during spontaneous porcine fetal loss. 42nd Southern Ontario Reproductive Biology meeting, Toronto Ontario, May-2014.
45. M. Bidarimath, A. K. Edwards, J. Wessels, Khalaj K, Kridli RT and C. Tayade. 2014. Distinct microRNA and their putative target mRNA expression in endometrial lymphocytes, endometrium and trophoblast during healthy and abortive porcine pregnancy. Annual meeting of the American Society for Reproductive Immunology, June 2-5 2014 New York USA.
46. Khalaj K, Wessels J M, Kridli R T, Bidarimath M, LaMarre J, and Tayade C. 2014. mRNA destabilizing factors: Tristetraprolin expression during healthy and abortive porcine pregnancy. American Society for Reproductive Immunology Meeting, June 2-5 2014 New York USA.
47. Kerr A., Kridli R.T., Khalaj K, Wessels J.M., Hahnel A., and Tayade C. 2014. Expression of leptin & its long form receptor at the porcine maternal-fetal interface. 34th annual meeting of the American Society for Reproductive Immunology (ASRI), June 2-5 2014 New York USA.
48. M. Bidarimath, A. K. Edwards, J. W. Wessels, Khalaj K, Kridli RT and C. Tayade. 2014. microRNA-mRNA interactions in the endometrial lymphocyte and their angiogenic functions at the porcine conceptus attachment sites. J A Low research day at Donald Gordon conference centre, Queen's University, Kingston, Ontario, April-2014.
49. Khalaj K, Wessels J M, Kridli R T, Bidarimath M, LaMarre J, and Tayade C. 2014. mRNA destabilizing factors: Tristetraprolin expression at the porcine maternal-fetal interface. J A Low research day at Donald Gordon conference centre, Queen's University, Kingston, Ontario, April-2014.
50. BA Lessey, SL Young, JY Yoo , J Jeong, N Joshi, AT Fazleabas, and C Tayade. 2013. Altered inflammatory and angiogenic responses of decidualized endometrial stroma from women with endometriosis. 69th American Society for Reproductive medicine Annual Meeting, October 12-17, 2013, Boston, MA, USA.
51. AK Edwards, SR Ramesh, S Singh and C Tayade. The role of syncuclein-gamma in the development of human endometriotic lesions in a xenograft mouse model. Society for the Study of Reproduction, 46th Annual Meeting Montréal, Québec, 22–26 July 2013.
52. I. Olariu, A.K. Edwards, D.S. Nakamura, S. Virani, and C.Tayade. 2013. Effect of ABT-898 on physiological angiogenesis and reproductive outcome in a mouse model. Society for the Study of Reproduction, 46th Annual Meeting Montréal, Québec, 22–26 July 2013.
53. D.S. Nakamura, A.K. Edwards, S. Virani, R. Thomas, and C. Tayade. 2013. Anti-angiogenic thrombospondin-1 analog (ABT-898) does not impair pregnancy or offspring development in a mouse model of endometriosis. Society for the Study of Reproduction, 46th Annual Meeting Montréal, Québec, 22–26 July 2013.

54. M. Bidarimath, AK. Edwards, J Wessels and C. Tayade. 2013.Expression of microRNAs involved in lymphocyte development and angiogenesis in porcine conceptus attachment sites. Society for the Study of Reproduction, 46th Annual Meeting Montréal, Québec, 22–26 July 2013.
55. R.T. Kridli, K. Khalaj, JM. Wessels, and C. Tayade. 2013.miRNA-10a Regulation of Selected Endometrial Genes Expressed During Early Porcine Pregnancy. Society for the Study of Reproduction, 46th Annual Meeting Montréal, Québec, 22–26 July 2013.
56. B.A. Lessey, S.L. Young, J. Jeong, A.T. Fazleabas and C Tayade. Altered inflammatory and angiogenic responses of decidualized endometrial stroma from women with endometriosis. IV Nordic congress on endometriosis, Turku, Finland, 23-25 May 2013.
57. R.T. Kridli, K. Khalaj, JM. Wessels, and C. Tayade. 2013. Differences in porcine endometrial mRNA Transcript Expression of Genes Targeted by miRNA-10a during early pregnancy. Joint conference of International society for reproductive immunology and American Society for reproductive immunology, Boston, MS, USA, May 28- June 1, 2013
58. K.Khalaj, J.M. Wessels, R.T. Kridli, J. LaMarre and C. Tayade. 2013. mRNA Destabilizing Factor TTP Expression at the Porcine Maternal-Fetal Interface. Joint conference of International society for reproductive immunology and American Society for reproductive immunology, Boston, MS, USA, May 28- June 1, 2013
59. I. Olariu, A.K. Edwards, D.S. Nakamura, S. Virani, and C.Tayade. 2013. Effect of an anti-angiogenic peptide, ABT-898, on physiological angiogenesis and reproductive outcome in a mouse model. Joint conference of International society for reproductive immunology and American Society for reproductive immunology, Boston, MS, USA, May 28- June 1, 2013
60. D.S. Nakamura, A.K. Edwards, S. Virani, R. Thomas, and C. Tayade. 2013. Pregnancy outcomes of mice treated with thrombospondin-1 analog, ABT-898, in a xenograft mouse model of endometriosis. Joint conference of International society for reproductive immunology and American Society for reproductive immunology, Boston, MS, USA, May 28- June 1, 2013
61. M. Bidarimath, AK. Edwards, J Wessels and C. Tayade. 2013. Expression of microRNAs involved in immune cell development and angiogenesis at the porcine maternal fetal interface. Joint conference of International society for reproductive immunology and American Society for reproductive immunology, Boston, MS, USA, May 28- June 1, 2013
62. AK Edwards, S Ramesh, V Singh and C. Tayade. 2013. Effect of gamma synuclein peptide inhibitor on human endometrisois lesion survival and growth in a mouse model. Joint conference of International society for reproductive immunology and American Society for reproductive immunology, Boston, MS, USA, May 28- June 1, 2013
63. DS Nakamura, AK Edwards, S Virani, R Thomas, and C Tayade. 2012. Effects of ABT-898 on the growth and survival of human endometriotic lesions in a mouse model of endometriosis. Joint European Society and American Society for Reproductive Immunology conference, Hamburg, Germany, May 31-June 2, 2012.
64. S Virani, AK Edwards, R Thomas, and C Tayade. 2012. Blocking of stromal cell derived factor-1 reduces vascularization of endometriotic lesions. Joint European Society and American Society for Reproductive Immunology conference, Hamburg, Germany, May 31-June 2, 2012.
65. J Wessels, AK Edwards and C. Tayade. 2011. MicroRNA expression in healthy and arresting conceptus attachmment sites during early porcine pregnancy. American Society for Reproductive Immunology Meeting May 19-22, 2011, Salt Lake City, USA.
66. DS Nakamura, AK Edwards, S Virani, R Thomas, and C Tayade. 2011. Efficacy of anti-angiogenic peptide, ABT-898, on the growth and survival of human endometriotic lesions in a

- mouse model of endometriosis. American Society for Reproductive Immunology Meeting May 19-22, 2011, Salt Lake City, USA
67. S Virani, AK Edwards, R Thomas, and C Tayade. 2011. Stromal cell derived factor-1 promotes recruitment of endothelial progenitor cells at the endometriotic lesions. American Society for Reproductive Immunology Meeting May 19-22, 2011, Salt Lake City, USA
 68. C. Tayade. (2011). Regulation of angiogenesis at the maternal-fetal interface: insights from spontaneous fetal loss model. Frontiers in Reproductive Biotechnology Conference, Karnal, India (Invited plenary Talk), Feb 9-11, 2011.
 69. C. Tayade, S Virani, AK Edwards, R Thomas, T Childs (2010). SDF-1 recruits endothelial and haematopoietic progenitor cells and support neoangiogenesis in endometriosis. Invited talk, Gordon Research Conference, Andover, USA, August 15-20, 2010.
 70. S Virani, R Thomas, T Childs and C Tayade (2010). Role of SDF-1 in promoting angiogenesis in endometriosis lesions. J. A. Low Research Day, March 26, 2010.
 71. S Virani, R Thomas, T Childs and C Tayade (2010). Stromal cell-derived factor-1 recruits putative endothelial progenitor cells for neoangiogenesis and supports endometriosis lesion development. American Society of Reproductive Immunology Conference at Pittsburgh, USA, May 17-20, 2010
 72. J Wessels, AK Edwards and C. Tayade (2010). Effect of a proprietary immune stimulant on litter size and fetal health in north American swine. Southern Ontario Reproductive Biology Meeting, Kingston, ON, May 7 2010.
 73. AK Edwards, MJ van den Heuval, BA Croy, C Tayade. (2010). Role of Pro-angiogenic and anti-angiogenic factors in porcine pregnancy success or failure. Southern Ontario Reproductive Biology Meeting, Kingston, ON, May 7 2010.
 74. AK Sheikhi, S Virani and C Tayade (2010). Localization of heat shock protein-70 and lectin-like oxidized low-density lipoprotein receptor-1 in normal and pre-eclamptic placentae. Southern Ontario Reproductive Biology Meeting, Kingston, ON, May 7 2010.
 75. B. A. Croy and C. Tayade (2009). Immune regulation of maternal-fetal interactions in pig. 2009 International Conference on Pig Reproduction may 31-June 4, 2009.
 76. A.K. Edwards, M.J. van den Heuvel, B.A. Croy, C. Tayade. (2009). Pro-angiogenic and Anti-Angiogenic Factors and Their Relation to Porcine Pregnancy Success or Failure. 2009 International Conference on Pig Reproduction may 31-June 4, 2009.
 77. AK Edwards, MJ van den Heuval, BA Croy, C Tayade. (2009). Pro-angiogenic and anti-angiogenic factors in porcine pregnancy. American Society of Reproductive Immunology meeting, Orlando, FL, USA, June 5-9, 2009. American Journal of Reproductive Immunology. 61 (2009) 416-417.
 78. Tayade C (2008). Pig as a model to study angiogenesis regulation during early and mid pregnancy loss. American Society of Reproductive Immunology meeting, Chicago, USA, June 11-14, 2008.
 79. Tayade C (2008) Regulation of angiogenesis at the maternal-fetal interface: Insights from porcine pregnancy success or failure. May 25-30, 41st Annual Meeting of Society for the study of reproduction (SSR), Hawaii, USA, May 25-30, 2008.
 80. C Tayade (2007). Lymphocyte contributions to altered endometrial angiogenesis during early and midgestation fetal loss. III Seminars on Maternal Fetal Interactions. Invited Speaker. University of Campinas, Sao Paulo, Brazil, Oct 29-31, 2007.

81. C Tayade. (2007). Contributions of endometrial lymphocytes to angiogenesis during successful or abortive pregnancy. Invited Speaker. III Latin American Symposium for Maternal Fetal Interactions, Nov 4-7, 2007, Los Cocos Argentina.
82. C Tayade. (2007). Contributions of maternal lymphocytes, endometrial endothelium and fetal trophoblasts to gestational angiogenesis. Invited Speaker. 13th International Federation of Placenta Association Conference, August 17-21, 2007, Kingston, Canada.
83. C Tayade. (2007). Contributions of endometrial lymphocytes to angiogenesis during pregnancy. 10th International Society for Reproductive Immunology Conference, Opatija, Croatia, June 1-14th 2007.
84. J. Wessels, N. Linton, B. A. Croy and C. Tayade: Expression of D6, a chemokine decoy receptor and pro-inflammatory chemokines during porcine pregnancy. American Society of Reproductive Immunology Conference, May 14-16, 2007, Toronto, Canada.
85. N. Linton, J. Wessels, B. A. Croy and C. Tayade (2007). Characterization of type 1 and Type 2 cytokines and DC-SIGN⁺ dendritic cells during porcine pregnancy. American Society of Reproductive Immunology Conference, May 14-16, 2007, Toronto, Canada.
86. B. A. Croy. and C.Tayade. (2006). Negative gestational outcomes can be attributed to altered NK cell functions. XV World Congress of the International Society for the Study of Hypertension in Pregnancy, Lisbon, July 2-6, 2006.
87. B. A. Croy, Y. Fang, J. Wessels and C.Tayade. (2006). Correlations between gene expression in endometrial lymphocytes, endothelium and trophoblasts during pregnancy failure. Abstract accepted for 12th Meeting of the International Federation of Placenta Associations (IFPA) in Kobe, Japan, September 6-9, 2006.
88. B. A. Croy, Y. Fang, J. Wessels and C.Tayade. (2006). Molecular events characterizing peri-implantation and midgestation fetal loss in pigs. Abstract accepted for Annual conference of Japanese Society of Animal Reproduction, September 7-9 at Nagoya, Japan.
89. J. Wessels, C. Tayade, Y. Fang, A. Harrison, and B. A. Croy (2006). Differential expression of the D6 chemokine receptor during successful and abortive porcine pregnancy. Southern Ontario Reproductive Biology Meeting, April 28, 2006, Guelph, ON, Canada.
90. Liu, Y. Fang, B.A. Croy and C.Tayade (2006). Differential expression of Insulin like growth factor family members at the maternal fetal interface during porcine pregnancy. Southern Ontario Reproductive Biology Meeting, April 28, 2006, Guelph, ON, Canada
91. B. A. Croy, Y. Fang and C. Tayade. Correlations between gene expression between endometrial lymphocytes, endothelium and trophoblast during pregnancy failure. 12th International Federation of Placenta Associations Meeting, September 6-9, 2006.
92. C.Tayade, Y.Fang and B.A. Croy. Endometrial lymphocytes and endothelial cells: partners in angiogenesis during successful or abortive embryo implantation. Miami Nature Biotechnology Winter Symposium 2006. Feb 2-6, Miami, Florida, USA.
93. Y. Fang, C. Tayade, H. He, D. Hilchie, L. Moons, P. Carmeliet, R. Foster and B. A. Croy. Placenta growth factor is not required for spiral artery modifications. Miami Nature Biotechnology Winter Symposium 2006. Feb 2-6, Miami, Florida, USA.
94. C. Tayade, Y. Fang, and B. A. Croy. Co-ordination of endometrial lymphocytes and endothelial cells for angiogenesis during successful or abortive embryo implantation. Annual Perinatal Investigators Meet, Kingston, ON Nov 3-5, 2005.
95. C. Tayade, Y. Fang, G. P. Black, P.F. Junior, A. Erlebacher and B. A. Croy. Transcription of Eomes and T-bet during differentiation and effector functions in mouse uterine natural killer cells. Natural Killer Workshop, Hawaii, Nov 4-8, 2005.

96. B.A. Croy, M. van den Heuvel, X. Xie, V.A. Paffaro, Jr. and C. Tayade. Mechanisms regulating immune cell contributions to spiral artery modification. European Placenta Group Meeting, Glasgow, Sept. 3-7, 2005. Invited as State of the Art Lecture, Dr.Croy.
97. B. A. Croy and C. Tayade. Advanced Technology, laser capture microdissection of uterine lymphocytes. European Placenta Group Meeting, Glasgow, Sept. 3-7, 2005.
98. C. Tayade, H. He, D. Hilchie, L. Moon, P. Carmeliet, R. Foster and B. A. Croy. Placenta growth factor is not essential for spiral artery modifications in pregnant mice. European Placenta Group Meeting in Glassgow. Scotland Sept 3-7, 2005.
99. C. Tayade, Y. Fang, G. P. Black, and B. A. Croy. Analysis of maternal and fetal gene expression during a peri-implantation life or death descision. Society of Study of Reproduction Conference. Quebec City, Canada. July 24-27, 2005. Larry Ewing Memorial Award.
100. C. Peralta, M. van den huevel, Y.Fang, S. Taylor, C. Tayade and B. A. Croy. Analysis of menstrual cycle effects on adhesion molecules and hormone receptor expression by blood NK cells. Society of Study of Reproduction Conference. Quebec City, Canada. July 24-27, 2005.

Knowledge and Technology Translation

- 2017/4 Consultant, Business Innovation:
Target Stakeholder: Healthcare Personnel
Activity Description: I have served as a consultant for National Institutes of Health Small Business Innovation Research (NIH SBIR) program to provide objective assessment for the suitability of non-invasive chip-based cytokine/growth diagnostic platform for endometriosis screening using plasma samples.
- 2010/1 - 2019/12 Industry Collaborator, R&D Collaboration with Industry
Target Stakeholder: Industrial Association/Producer Group
Outcome / Deliverable: Collaboration with Abbott Lab to determine efficacy of antiangiogenic peptide ABT898 Activity Description: In partnership with Abbott Labs, we performed pre-clinical evaluation of peptide based anti-angiogenic drug, ABT-898 for the treatment of endometriosis (Nakamura et al 2012, American Journal of Pathology, PLoS One 2015). This partnership is continuing with AbbVie to delineate safety and toxicity of ABT-898.
- 2015/9 - 2018/9 Industry Collaborator, R&D Collaboration with Industry
Target Stakeholder: Industrial Association/Producer Group
Outcome / Deliverable: research partnership
Activity Description: I worked with Primus Pharmaceuticals to determine the efficacy of Flavocoxid (plant derived flavonoids) as a potential therapeutic to reduce inflammation and pain associated with endometriosis in pre-clinical mouse models. I am also evaluating mechanisms by which Flavocoxid modulate inflammation using cell culture and mouse models.

Leadership Experience

Vice-Dean, Basic and Public Health Sciences: Provide administration and budgetary oversight to the operation of 3 basic science departments (Department of Biomedical Sciences, Pathology Molecular Medicine and Public Health Sciences). I also provide strategic direction to Undergraduate Life Sciences, Biochemistry and Health Sciences Program and Graduate programs in Faculty of Health Sciences.

Director, MD-PhD program (2019-Current): Recruitment and training of MD-PhD students in collaboration with School of Medicine.

Director, Graduate Diploma in Pharmaceutical Health and Innovation (2019-current):

Recruitment and training of MD, Pharm-D, PhD, Post-Docs. This is the only program in the country where trainees are provided with a guaranteed industry internship (6 months with \$25,000 compensation paid by participating industries to our interns). So far 35 students graduated from this diploma and all of them are now working within the pharma/healthcare sector. Our partners in this program to date have been Pfizer, Merck, Roche, Sanofi Pasteur, Bristol-Myers Squibb, Novartis, AstraZeneca, Boehringer-Ingelheim etc

Associate Dean, Graduate and Post-Doctoral Education (2019-2023): Administrative oversight to 22 graduate programs within School of Medicine, School of Rehabilitation Therapy and School of Nursing. ~980 graduate students in 22 diverse graduate programs and 55 post-docs.

Director, Research Group in Reproduction (2016-2019): Collaborative research group involving clinicians, pathologists, and basic scientists. We created an international human placenta training program that trained 129 trainees from 24 countries.