

Dr. Gemechu Wirtu

Publications :

- 1) Williams A, Crawford L, Tiwari AK, Samuel T, Wirtu G .: Lipid metabolism in mammary neoplasia and potential therapeutic targets. *VRI Cell Signaling* 2013, 1:16-21
- 2) Wirtu G ., McGill J., Crawford L, Williams A, Reddy G, Bergen WG, Simon L: Targeting lipid metabolism to improve oocyte cryopreservation (OCP) in domestic animals. *Traslational Clinical Biology* 2013, 1:15-20
- 3) Pennington, PM., Pope,CE, McLean, RA, Galguis,J, Gentry, LR, Godke, RA and Wirtu, G. 2013. Daily or thrice weekly handling of eland antelope (*Taurotragus oryx*): Effects on serum cortisol level. *Research in Veterinry Science* In press, doi:pii: S0034-5288(12)00358-X. 10.1016/j.rvsc.2012.12.006. [Epub ahead of print] PMID:23290948
- 4) Chacon L, Gomez MC, Jenkins JA, Leibo SP, Wirtu G ., Dresser BL, et al. Effect of cryopreservation and in vitro culture of bovine fibroblasts on histone acetylation levels and in vitro development of hand-made cloned embryos. *Zygote*. 2011;19(3):255-64. Epub 2010/07/08. doi: 10.1017/S0967199410000316. PubMed PMID: 20604985
- 5) Chacon L, Gomez MC, Jenkins JA, Leibo SP, Wirtu G ., Dresser BL, et al. Production of bovine cloned embryos with donor cells frozen at a slow cooling rate in a conventional freezer (-20 degrees C). *Zygote*. 2009;17(4):341-51. Epub 2009/06/09. doi: 10.1017/S0967199409005474. PubMed PMID: 19500443
- 6) Mercado JA, Wirtu G ., Beaufriere H, Lydick D. Intraocular pressure in captive black-footed penguins (*Spheniscus demevsus*) measured by rebound tonometry. *Journal of avian medicine and surgery*. 2010;24(2):138-41. Epub 2010/09/02. PubMed PMID: 20806659
- 7) Wirtu, G. , Pope, C.E., Paccamonti, D.L., Godke, R.A., Dresser, B.L. (2009). Ultrasonographic-guided retrieval and in vitro maturation of eland (*Taurotragus oryx*) and bongo (*Tragelaphus eurycerus isaaci*) antelope oocytes. *Anim Reprod Sci* 111: 160-172
- 8) Nel-Themaat L, Gómez MC, Pope CE, Lopez M, Wirtu G ., Cole A, Dresser BL, Lyons LA, Bondioli KR, Godke RA (2008a) Cloned Embryos from Semen. Part 1: in vitro proliferation of epithelial cells on embryonic fibroblasts after isolation from semen by gradient centrifugation. *Cloning and Stem Cells* 10, 143-160

- 9) Nel-Themaat L, Gómez MC, Pope CE, Lopez M, Wirtu G ., Jenkins JA, Cole A, Dresser BL, Bondioli KR, Godke RA (2008b)

International Nano-Bio Summit, October 17th-18th, 2013, Alabama State University, AL

- 9) Williams A, Samuel T, Wirtu, G. : Expression of Acetyl CoA Carboxylase in Canine Mammary Tumors. In Merial-NIH Symposium, Michigan State University: August 2013
- 10) Crawford, L, Williams A, Wirtu, G. 2013. Effect of an inhibitor of Acetyl-CoA Carboxylase (ACC) on the in vitro maturation of feline oocytes. 2013 Annual Biomedical Research Conference for Minority Students (ABRCMS), November 13-16, Nashville, TN
- 11) Wirtu, G. Expression of lipogenic genes in canine oocytes, 11th Gulf Coast Conservation Biology Symposium, Audubon Nature Institute, New Orleans, LA, June 7th, 2013
- 12) Wirtu G. 2012. The significance and metabolism of fat in mammalian oocytes and embryos. Faculty Seminar Series, College of Veterinary Medicine, Tuskegee University, September 13, 2012
- 13) McGill J, Reddy G, Simon L, Wirtu, G: Effect of acetyl-CoA carboxylase (ACC) inhibitor on nuclear maturation and lipid content of canine oocytes. In Merial-NIH Symposium. Fort Collins, Colorado: Colorado State University; August 2012
- 14) Wirtu, G. C.E. Pope, R.A. MacLean, J. Galiguis, D.L. Paccamonti, B. L. Dresser, R.A. Godke. Effect of handling frequency on blood chemistry and hematology parameters of female eland antelope. AZA Annual Conference, Atlanta, GA, September 15-17, 2011
- 15) Wirtu, G. , C.E. Pope, R.A. MacLean, J. Galiguis, D.L. Paccamonti, B. L. Dresser, R.A. Godke. Effects of handling frequency on Serum Cortisol level in captive eland antelope 7th Gulf Coast Conservation Biology Symposium, Audubon Nature Institute, New Orleans, LA, June 24th, 2011
- 16) Wirtu, G. Development of in vitro-derived bovine embryos in protein-free Media: effects of amino acids, glucose, pyruvate, lactate, phosphate and osmotic pressure. 11th Biomedical Research Symposium. College of Veterinary Medicine, Nursing and Allied Health, Tuskegee University. September 23-24, 2010