Department of Agriculture Faculty Profile Information

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Area of Research: Ruminant Reproductive Physiology

Course/s Taught: Animal Production, Animal Production Lab, Physiology of Reproduction, Livestock Breeding, Poultry Production, Special Problems in Livestock Breeding, Advanced Physiology of Reproduction, Thesis (I, II), Hatchery Management, Seminar

Appointment: Research and Teaching

Publications:

1. Dalberto, G., Andreatta, T., Mason, M., Haygert-Velho, I.M.P. (2018). A bibliometirc analysis on global literature of compost dairy barns. Submitted to Pesquisa Agropecuaria Brasileira.
2. **Mason, M.,** Cuadra, E.C. (2018). Effects of Injecting GnRH 48 Hours after PGF2α on the Dynamic Follicular and Luteal Endocrine Cells in Post-Pubertal Holstein Heifers. Submitted to Latin American Association of Animal Production.
3. Cuadra, E.C., Davis, E.D., Elsasser, T.H., Jung, Y., Larson, J.L., **Mason, M.C.,** Roberts, A., Vann, R.C. (2016). Concentrations of Progesterone Alter the Odds of Retention of Transferred Bovine Embryos. J Vet Sci Res. 2017; 1 (4): 000126.
4. **Mason, M.,** Dogan, S., Kaya, A., Cuadra, E.J., Memili, E. (2014). Expression dynamics of *mhc1* and *magel2* associated with viability of bovine embryo. Submitted for publication to International Veterinary Medicine Journal.
5. **Mason, M.**, Copeland, J., Cuadra, E.J., Elsaser, T.H., Larson, J., Yoonsung, J. (2014). Dynamics of progesterone, TNF-α and a metabolite of $PGF_{2\alpha}$ in blood plasma of beef cows following embryo transfer. Veterinary Medicine International,http://dx.doi.org/10.1155/2014/650272.
6. **Mason, M.,**Cuadra. E.J., Elsasser T.H. Lopez, J., Yoonsung, J.(2013). Evaluating the interaction between progesterone, tumor necrosis factor-alpha and cortisol on early loss of transferred embryo in beef cows. Can. J. Anim. Sci. 93: 1-9 doi:10.4141/CJAS2012-099.
7. Memili, E., Dogan, S., Rodriguez-Osorio, N., Wang, X., de Oliveira, R.V., **Mason, M**., Govindaraju, A., Grant, K., Belser, L., Crate, E., Moura, A., Kaya, A. (2012). Makings of the Best Spermatozoa: Molecular Determinants of High Fertility. Male Infertility, ISBN 979-953-307-073-4.

8. Dogan, S., **Mason, M.,** Govindaraju, A., Belser, L., Kaya, A., Stokes, J., Rowe, D., Memili, E. (2012). Interrelationships between apoptosis and male fertility. J Reprod Dev. 2013;59(1):18-26. Epub 2012 Sep 14.
9. Shengwen G., Tang., J., Cuadra., E.J., **Mason, M.,** Sun, Q. (2011). Segmentation andMeasurement of Follicles from 3-D Ultrasound Images for Cattle Reproduction. Submitted for Publication to the Journal of Electronic Imaging.
10. Johnson, R., Bennett, W.A., Cuadra, E.J., **Mason, M**. (2010). Roles of hCG in advancingfollicular growth to ovulation after concurrent injections of $PGF_{2\alpha}$ and GnRH in postpubertal Holstein heifers. Veterinary Medicine International. doi:10.4061/2010/394236.
11. Cuadra, E.J., Vann R., Bennett, W.A., Johnson, R., **Mason, M.** (2009). Assessing thebenefits of exogenous progesterone supplementation on the survival of embryostransferred to recipient beef cows.
12. Guo, S., Tang, J., Cuadra, E.J., **Mason, M**., Sun, Q. (2009). Normalized waves of diffusion for speckle reduction on 3-D ultrasound images. Proc. SPIE,. Vol. 7497 (SPIE, Bellingham, WA 2009) 74971R.
13. Johnson, R., Bennett, W.A., Cuadra, E.J., **Mason, M**., Njiti, V. (2009). Ultrasonographicmonitoring of follicular growth and day of ovulation after $PGF_{2\alpha}$ in combination with GnRH or GnRH and hCG in dairy heifers. M.S. Thesis, Alcorn State University.
14. Cuadra, E.J., **Mason, M**. (2008). Manual for Embryo Transfer: A Farmer's Guide to Embryo Transfer. Research Outreach. Department of Agriculture. Alcorn State University.

Book Chapters

1. Dogan, S., **Mason, M.,** Memili, E. (2013). Epigenetic mechanisms and mammalian reproduction. Accepted as chapter to book "Spermatozoa: Biology, Motility and Function and Chromosomal Abnormalities" via Nova Publishers.
2. Gilbert, G.L., Gilbert, E.A., Govindaraju, A., Jury, L., **Mason, M.C.**, Pfeiffer, K.E., Rowlison, T.M., Ward, L., Kaya, A., Larson, J., Memili, E. Endocrine control of bull fertility. (2013). In "Cattle Domestication, Diseases and the Environment." G. Liu, editor, Nova Publishers.