

## Gretchen M. Zaunbrecher, Ph.D.

### EDUCATION

- Ph.D. in Veterinary Anatomy and Public Health, Genetics, Texas A&M University, 2004  
M.S. in Animal Science, Texas Tech University, 1996  
B.S. in Animal Science, University of Southwestern Louisiana, 1992

### EMPLOYMENT

- Genetics Lab, Director, California Cooperative Rice Research Foundation, Inc., Biggs, CA, 2022 to Present  
Research Associate, Specialist, Louisiana State University AgCenter Rice Research Station, 2008 to 2022  
Adjunct Professor, University of Louisiana, Lafayette, 2004 to 2008  
Adjunct Professor, Louisiana State University at Eunice, 2005 to 2007  
Graduate Research Assistant, Texas A&M University, 1997 to 2003  
Laboratory Technician, Southwest Cancer Center, Texas Tech Health Sciences Center, 1996 to 1997  
Graduate Research Assistant, Texas Tech University, 1993 to 1995

### SELECTED PUBLICATIONS

- Zaunbrecher, G.M.**, Dunne, P.W., Mir, B., Piedrahita, J.A. Enhancement of extra chromosomal recombination in somatic cells by affecting the ratio of homologous recombination (HR) to non-homologous end joining (NHEJ). *Animal Biotechnology* 2008, 19(1):6-21.
- Mir, B., **Zaunbrecher, G.**, Archer, G.S., Friend, T.H., Piedrahita, J.A. Progeny of somatic cell nuclear transfer (SCNT) pig clones are phenotypically similar to non-cloned pigs. *Cloning Stem Cells* 2005, 7(2):119-25.
- Archer, G.S., Dindot, S., Friend, T.H., Walker, S., **Zaunbrecher, G.**, Lawhorn, B., Piedrahita, J.A. Hierarchical phenotypic and epigenetic variation in cloned swine. *Biology of Reproduction* 2003, Aug. 69(2):430-436.
- Walker, S.C., Shin, T., **Zaunbrecher, G.M.**, Romano, J.E., Johnson, G.A., Bazer, F.W., Piedrahita, J.A. A highly efficient method for porcine cloning by nuclear transfer using in vitro-matured oocytes. *Cloning and Stem Cells* 2002, 4(2):105-112.
- Melton, C.M., **Zaunbrecher, G.M.**, Yoshizaki, G. Patino, R., Whisnant, R., Rendon, A. Expression of connexin 43 mRNA and protein in developing follicles of prepubertal porcine ovaries. *Comprehensive Biochemical Physiology B Biochemical Molecular Biology* 2001, Aug. 130(1):43-55.
- Chen, L., Burger, R.A., **Zaunbrecher, G.M.**, Cheng, H., Lincoln, A.J., Mallarino, M.C., Monk, B.J., Khan, S.A. Protein kinase C isoform expression and activity alter paclitaxel resistance in vitro. *Gynecological Oncology* 1999, Feb. 72(2):171-179.
- Whisnant, C.S., Kline, R.S., Branum, J.C., **Zaunbrecher, G.M.**, Khan, M.Z., Jackson, S.P. Hormonal profiles of callipyge and normal sheep. *Journal of Animal Science* 1998, May. 76(5):1443-1447.

### POSTERS AND PRESENTATIONS

- G.M. Zaunbrecher**, J.H. Oard, H.S. Utomo, S.D. Linscombe, D.E. Groth. CRISPR/Cas9 Mediated Modification in Rice: A proof of concept experiment. Rice Technical Working Group Conference (Presentation), Long Beach, California 2018.
- G.M. Zaunbrecher**, J.E. Richard, W. Lee, X. Sha, H.S. Utomo, S. Linscombe, and J. Oard. Three Line Hybrid Rice Production. 2013 Rice Research Station Field Day, Crowley, Louisiana 2013.
- G.M. Zaunbrecher**, T.E. Spencer, R.C. Burghardt, M.M. Joyce, F.W. Bazer, and G.A. Johnson. Regulation of Glycosylation Dependent Cell Adhesion Molecule 1 (GLYCAM-1) and L-Selectin expression in the pregnant ovine uterus and placenta. Society for the Study of Reproduction (Poster), Cincinnati, Ohio 2003.
- M.M. Joyce, R.C. Burghardt, F.W. Bazer, **G.M. Zaunbrecher**, and G.A. Johnson. Interferon-Stimulated Genes (ISG's) are induced in the endometrium of pregnant but not pseudopregnant pigs. Society for the Study of Reproduction (Presentation), Cincinnati, Ohio 2003.
- G.M. Zaunbrecher**, G. Yoshzaki, R. Patino, C.S. Whisnant. Molecular cloning and characterization of two connexin cDNA fragments from the porcine ovary. Society for the Study of Reproduction (Poster), Davis, California 1995.