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Education:

- 1990-1995 Ph.D. in Reproductive Physiology. Louisiana State University.
Baton Rouge, Louisiana Advisor: Robert A. Godke, Ph.D.
- 1983-1986 M.S. in Reproductive Physiology. Chinese Academy of Agriculture
Sciences. Beijing, China. Advisor: Peilu Cheng, Ph.D.
- 1978-1982 B.S. in Biology. Beijing Normal University. Beijing, China.

Employment Experience:

- 2011-Present Reproductive Laboratory Director. Fertility Center of Dallas.
Dallas, Texas.
- 1994-2010 Reproductive Laboratory Director. Texas Center for Reproductive Health.
Dallas, Texas.
- 1989-1994 Research Associate. Department of Animal Science,
Louisiana State University, Baton Rouge, Louisiana
- 1989-1989 Visiting Scholar. Department of Animal Science,
Cornell University, Ithaca, New York.
- 1986-1989 Research Associate. Institute of Animal Science, Chinese Academy of
Agricultural Sciences. Beijing, China.
- 1983-1986 Research Assistant. Institute of Animal Science, Chinese Academy of
Agricultural Sciences. Beijing, China.
- 1982-1983 Instructor. Fengtai Agricultural Technique School.
Beijing, China.

Certifications:

- 1998-Present American Board of Bioanalysis
Certified High-Complexity Clinical Laboratory Director

- 1998-Present American Board of Bioanalysis
Certified Embryology Laboratory Director.

Membership:

- 1996-Present American Association of Bioanalysts (AAB)
- 1994-Present American Society for Reproductive Medicine (ASRM)
- 1990 American Society of Dairy Science
- 1989 American Society of Animal Science
- 1989 International Embryo Transfer Society
- 1986 Chinese Animal Reproduction Society

Lectures:

- 2018 Baylor Scott & White – Baylor University Medical Center, Dallas, Texas -
Uterine Transplantation – Embryology Perspective.

- 2015 Beijing, China -
The 2nd Sino-American Forum & Conference on Assisted Reproductive
Medicine - Stimulation

- 2004 Plano West Senior High School, Plano, Texas -
Assisted Reproductive Technology and Human Reproduction

- 2001 Resolve Symposium, Dallas, Texas -
Assisted Reproductive Technology: What goes on in the Laboratory.

- 2000 Baylor University Medical Center, Dallas, Texas -
The Laboratory as an Aid in the Treatment of the Infertile Couple.

- 1999 Resolve Symposium, Dallas, Texas -
Seeking Solutions: Advanced Treatments.

- 1998 Resolve of Dallas/Ft. Worth – Dallas, Texas -
A Family Building Symposia: Preimplantation Genetic Diagnosis.

- 1996 Fertility Nurses Society/Organon, Dallas, Texas -
Gametes to Embryo: The Lab Experience.

- 1994 Resolve/Serono Symposium, Dallas, Texas -
Insights into Infertility: A look from the Laboratory.

Publications:

Human Assisted Reproductive Technology – *Assisted Reproductive Laboratory Design and Operation* - Chapter 2, pgs. 42 - 49 (Chinese) Beijing Science Publication (2008)

Chatfield, J., **Zhang, L.**, Ramey, J., Bowsher, T., Loskutoff, N.M. and O'Neill, K. (2006) Resolution of a prolactinoma in a western lowland gorilla (*Gorilla gorilla*). *Journal of Zoo and Wildlife Medicine* 37(4):565-566.

Loskutoff, N.M., Bowsher, T.R., Chatfield, J.A., Stones, G.A., Ramey, J.W., **Zhang, L.**, Putman, M., Boland, C., Wharton, D. and Gardner, D.K. (2004) Ovarian stimulation, ultrasound-guided oocyte retrieval, ICSI and blastocyst production using sequential media in the western lowland gorilla (*Gorilla Gorilla Gorilla*). *Reproduction, Fertility and Development* 16:225.

Han, Y., M. Meintjes, K. Graff, R. Denniston, **L. Zhang**, C. Ziomek, R. Godke. 2001. Caprine offspring born from fresh and frozen-thawed *in vitro*-produced embryos. *Veterinary Record* 149: 714-716.

Hein, H.A.T., C.T. Suit, L.K. Downing, S.P. Marynick, J.M. Putman, **L. Zhang** and M.A.E. Ramsay. 1997. Effect of Intravenous Sedation on the Outcome of Transvaginal Oocyte Retrieval: a comparative study of Propofol- and Methohexital-based techniques. *Texas University Medical Center Proceedings* 10:71-73.

Presicce, G.O., S. Jiang, M. Simkin, **L. Zhang**, C.R. Looney, R.A. Godke and X. Yang. 1997. Age and hormonal dependence of acquisition of oocyte competence for embryogenesis in prepubertal calves. *Biol Reprod.* 56:386-392.

Zhang, L., S. Jiang, P. J. Wozniak, X. Yang and R. A. Godke. 1994. Cumulus cell function during bovine oocytes maturation, fertilization, and embryo development *in vitro*. *Mol. Reprod. Dev.* 40:338-344.

Zhang, L., A. M. Weston, R. S. Denniston, L. L. Goodeaux, R. A. Godke and D. P. Wolf. 1994. Developmental potential of rhesus monkey embryos produced by *in vitro* fertilization. *Biol. Reprod.* 51:433-440.

Zhang, L., D. M. Barry, R. S. Denniston, T. D. Bunch and R. A. Godke. 1993. Birth of live calves after transfer of frozen-thawed bovine embryos fertilized *in vitro*. *Vet. Record* 132: 247-249.

Chen, Y., R. H. Foote, C. Tobback, **L. Zhang** and S. Hough. 1993. Survival of bull spermatozoa seeded and frozen at different rates in egg yolk-tris and whole milk extenders. *J. Dairy Sci.* 76:1028-1034.

- Zhang, L.**, R. S. Denniston and R. A. Godke. 1992. A simple method for *in vitro* maturation, *in vitro* fertilization, and co-cultural of bovine oocytes. *J. Tiss. Cult. Meth.* 14: 107-112.
- Zhang, L.**, M. R. Flood, T. D. Bunch, W. Hansel and R. A. Godke. 1992. Evaluating bovine oviduct cells used in combination with bovine cumulus cells to co-culture IVF-derived bovine embryos *in vitro*. 12th International Congress on Animal Reproduction 2:403-405.
- Myers, M. W., **L. Zhang**, B. K. Stroud and R.A. Godke. 1992. Development of *in vitro* matured bovine oocytes fertilized either *in vitro* or *in vivo*. 12th International Congress on Animal Reproduction 2:668-670.
- Yang, X., **L. Zhang**, A. Kovacs, C. Tobback and R. H. Foote. 1990. Potential of hypertonic medium treatment for embryo micromanipulation: II. Assessment of nuclear transplantation methodology, isolation, subzona insertion, and electrofusion of blastomeres to intact or functionally enucleated oocytes in rabbits. *Mol. Reprod. Dev.* 27:118-129.
- Jiang, S., **L. Zhang**, J. Liu, S. Huang, Z. Jin, C. Gao, W. Meng and Y. Zhu. 1989. *In vitro* fertilization and embryo transfer in cattle. Proc. FAO/CAAS Workshop on Biotechnology in Animal Production and Health in Asia and Latin America, Beijing, Oct. 9-13, pp 292-294.
- Jiang, S., **L. Zhang** and Y. Zhu. 1988. A simple technique of sheep embryo bisection. Scientific Report, CAAS. pp300-303 (in Chinese).
- Zhu, Y., S. Jiang, **L. Zhang** and S. Huang. 1987. Study on the *in vitro* fertilization in the rabbit. Scientific Report, CAAS. pp246-249 (in Chinese).
- Zhang, L.** and P. Cheng. 1987. Study on seasonal fluctuation of PGs in ram semen and adding PGs to frozen-thawed ram semen on conception rate of ewes. Scientific Report, CAAS. pp281-290 (in Chinese).

Dissertation and Thesis:

- Zhang, L.** 1995. *In vitro* Maturation, *In vitro* Fertilization, and Development of Bovine Oocytes.
PhD's Dissertation: Department of Animal Science, Louisiana State University.
- Zhang, L.** 1986. Study on Seasonal Fluctuation of PGs in Ram Semen and the effect of adding PGs to Frozen-Thawed Ram Semen on Conception rate of Ewes.
Master's Thesis: Chinese Academy of Agricultural Sciences (in Chinese).

Abstracts:

- Pinto, A.B., R.D. Dickerson, J.M. Putman, S.P. Marynick, R. Basuray, **L. Zhang**. 2005. Pregnancies and births achieved from in vitro matured metaphase I (MI) oocytes retrieved in patients undergoing in vitro fertilization (IVF). ASRM 61st Annual Meeting. Montreal, Quebec, Canada.
- Pinto, A.B., Putman, M.J., Marynick, S., Broyles, N., Dickerson, R.D., **Zhang, L.** 2004. Role of back-up frozen semen in couples undergoing in vitro fertilization (IVF). ASRM 60th Annual Meeting. Philadelphia, USA.
- Marynick, M.P., **L. Zhang** and S.P. Marynick. 1999. Molecular size of embryo toxins in human. ASRM 55th Annual Meeting. Toronto, Canada.
- Blakewood, E. G. and **L. Zhang**. 1993. The use of chick embryo amniotic fluids for the *in vitro* culture of early-stage mammalian embryos. *Therio*. 39:189.
- Zhang, L.**, D. P. Wolf, J. A. Thomson, L. L. Goodeaux, J. K. Thibodeaux and R. A. Godke. Developing frozen-thawed IVF-derived rhesus monkey embryos to the hatched blastocyst stage using somatic cell co-culture. Symposium on *In Vitro* Fertilization and Embryo Transfer in Primates. pp38.
- Zhang, L.**, D. M. Barry, R. S. Denniston T. D. Bunch and R. A. Godke. 1992. Successful transfer of frozen-thawed IVF-derived bovine embryos. *Therio*. 37:331.
- Zhang, L.**, B. G. Blakewood, R. S. Denniston and R. A. Godke. 1991. The effect of insulin on maturation and development of *in vitro*-fertilized bovine oocytes. *Therio*. 35:301.
- Zhang, L.**, R. S. Denniston, T. D. Bunch and R. A. Godke. 1991. Cows vs. heifers for the production of *in vitro*-matured, *in vitro*-fertilized (IVF) embryos. Annual Meeting of the American Society of Animal Science.
- Zhang, L.**, R. S. Denniston and R. A. Godke. 1991. The effect of insulin on the development of *in vitro*-fertilized porcine oocytes. Annual Meeting of the American Society of Animal Science.
- Yang, X., **L. Zhang**, A. Kovacs, C. Tobback and R. H. Foote. 1990. Isolation at culture of single 8-cell blastomere in rabbits with a novel approach. *Therio*. 33:353.
- Zhang, L.**, E. G. Bleakwood, R. S. Denniston and R. A. Godke. 1990. The effect of ovary temperature on oocytes maturation, *in vitro* fertilization and embryo development in cattle. 67th Annual Meeting of the American Dairy Sciences Association. S045.
- Zhang, L.**, E. G. Bleakwood, R. S. Denniston and R. A. Godke. 1990. The effect of insulin on the development of *in vitro* fertilized bovine oocytes. 67th Annual Meeting of the American Dairy Science Association. S046.

Blackewood, E. G., Y. Kajihara, **L. Zhang** and R. A. Godke. 1990. Culture of *in vitro* fertilized bovine embryos in the chick embryo amnion. 67th Annual Meeting of the American Dairy Science Association.

Zhang, L., H. N. Kim, J. D. Roussel and R. A. Godke. 1990. Incubation bovine oocytes under an oil cover during *in vitro* fertilization procedures. Louisiana Academy of Science.

Kim. H. N., **L. Zhang**, J. D. Roussel and R. A. Godke. 1990. The use of cumulus cells and oviduct cells to co-culture *in vitro* fertilized bovine oocytes. Louisiana Academy of Science.

Jiang, S., **L. Zhang** and Y. Zhu. 1988. A simple technique of sheep embryo bisection. Therio. 29:305.