

BIOGRAPHICAL SKETCH

NAME Yang, Qi-En	POSITION TITLE Postdoctoral Scholar		
eRA COMMONS USER NAME			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
China Agricultural University, Beijing, China	B.S.	2004	Animal Sciences
China Agricultural University, Beijing, China	M.S.	2006	Reproductive Biology
University of Florida, Gainesville, FL, USA	Ph.D.	2010	Animal Molecular and Cellular Biology

A. Personal Statement

Dr. Qi-En Yang works as a Lalor Foundation postdoctoral fellow in Dr. Jon Oatley's lab at the Washington State University. Dr. Yang uses spermatogonial stem cell (SSC) culture, germ cell transplantation and conditional knockout animal models to address key questions in the field of male germline stem cell biology. Currently, his research focuses on the function of Id proteins and their binding partners in SSC fate decisions. He is also interested in understanding the influence of niche factor SDF-1 on SSC self-renewal and differentiation. Yang studied the roles of fibroblast growth factors in peri-implantation embryo development and lineage commitment at the University of Florida.

B. Positions and Honors

Positions and Employment

- 2006.08-2010.10 Research Assistant in Animal Molecular and Cellular Biology Graduate Program, University of Florida, Advisor: Alan D. Ealy
- 2011.01-2011.06 Postdoctoral Scholar, Center for Reproduction and Health, Pennsylvania State University, Advisor: Jon M. Oatley
- 2011.6-present Postdoctoral Scholar, Center for Reproductive Biology, School of Molecular Biosciences, Washington State University, Advisor: Jon M. Oatley

Other Experience and Professional Memberships

- 2008-2009 American Society of Animal Sciences
- 2008-2010 Sigma Xi Scientific Research Society
- 2009-2010 Vice president, ASGSA, University of Florida
- 2008- Society for the Study of Reproduction

Honors

- 2002-2004 Zeng Xian-Zi Educational Foundation Fellowship, Ministry of Education, China
- 2004 The Outstanding Undergraduate Award, China Agricultural University
- 2006-2009 Grinter Scholarship, University of Florida
- 2008 Fontenot Graduate Student Travel Scholarship, American Society of Animal Sciences
- 2010 LEMTTF Award, Society for the Study of Reproduction
- 2012 Lalor Foundation Merit Award, Society for the Study of Reproduction
- 2012 SSR Trainee Platform Competition 3rd Place, Society for the Study of Reproduction
- 2012-2013 Lalor Foundation Postdoctoral Fellowship, the Lalor Foundation

C. Selected peer-reviewed publications

1. Tong MH, **Yang QE**, Davis JC & Griswold MD. Retinol dehydrogenase 10 is indispensable for spermatogenesis in juvenile males. *Proc. Natl. Acad. Sci. USA*. **Accepted. 2012**
2. **Yang QE**, Kim D, Kuacher A, Oatley MJ & Oatley JM. CXCL12/CXCR4 signaling is essential for the maintenance of mouse spermatogonial stem cells. *Journal of Cell Science*. **Accepted. 2012**
3. **Yang QE**, Racicot K, Kaucher A, Oatley MJ & Oatley JM. MicroRNAs 221 and 222 regulate the undifferentiated state in mammalian male germ cells. *Development*. **Accepted. 2012**

4. Ozawa M, **Yang QE** & Ealy AD. The expression of fibroblast growth factor receptors during early bovine conceptus development and their importance as regulators of trophoblast growth. **Reproduction. In revision. 2012.**
5. **Yang QE**, Fields SD, Zhang K, Ozawa M, Johnson SE & Ealy AD. Fibroblast growth factor 2 promotes primitive endoderm development in bovine blastocyst outgrowths. **Biology of Reproduction.** 2011; 85(5):946-53.
6. **Yang QE**, Johnson SE & Ealy AD. Protein kinase C delta mediates fibroblast growth factor-2-induced interferon-tau expression in bovine trophoblast. **Biology of Reproduction.** 2011;84(5):933-43.
7. **Yang QE**, Giassetti MI & Ealy AD. Fibroblast growth factors activate mitogen-activated protein kinase pathways to promote migration in ovine trophoblast cells. **Reproduction.** 2011;141(5):707-14.
8. Thompson IM, Ozawa M, Bubolz JW, **Yang QE** & Dahl GE. Bovine luteal prolactin receptor expression: potential involvement in regulation of progesterone during the estrous cycle and pregnancy. **J Anim Sci.** 2011;89(5):1338-46.
9. Pennington KA, Oliveira LJ, **Yang QE** & Ealy AD. The enrichment of trophoblast giant cells from mid gestation bovine placentae using fluorescence-activated cell sorting. **Placenta.** 2010;31(8):738-40.
10. Cooke FN, Pennington KA, **Yang QE** & Ealy AD. Several fibroblast growth factors are expressed during pre attachment bovine conceptus development and regulate interferon-tau expression from trophectoderm. **Reproduction.** 2009 Feb;137(2):259-69.
11. Ealy AD & **Yang QE**. Control of interferon-tau expression during early pregnancy in ruminants. **Am J Reprod Immunol.** 2009;61(2):95-106.
12. Yan CL, **Yang QE**, Zhou GB, Hou YP, Zhao XM, Fan ZQ, Liu MQ, Liu L & Zhu SE. Open-pulled straw (OPS) vitrification of in vitro fertilised mouse embryos at various stages. **Acta Vet Hung.** 2008; 56(2):245-53.
13. **Yang QE**, Hou YP, Zhou GB, Yang ZQ & Zhu SE. Stepwise in-straw dilution and direct transfer using open pulled straws (OPS) in the mouse: a potential model for field manipulation of vitrified embryos. **J Reprod Dev.** 2007;53(2):211-8.
14. Zhou GB, Hou YP, Jin F, **Yang QE**, Yang ZQ, Quan GB, Tan HM & Zhu SE. Vitrification of mouse embryos at various stages by open-pulled straw (OPS) method. **Anim Biotechnol.** 2005;16(2):153-63.

Manuscript in Preparation:

1. **Yang QE**, Gwost I et al., Rb1 dictates fate decisions in male germline stem cells. **2012**
2. **Yang QE**, Kaucher A, Oatley MJ and Oatley JM. Interplay between ID4 and NGN3 controls the lineage decisions of spermatogonial stem cells. **2013**
3. **Yang QE**, Gwost I, Oatley MJ & Oatley JM. E2A and HEB control Sertoli cell maturation and spermatogenesis. **2013**
4. **Yang QE**, Ozawa M & Ealy AD. Requirements of PRKCD for IFNT production and blastocyst formation in bovine embryos. **2013**