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1995 B.S. Konkuk University, Republic of Korea
1998 M.S. Konkuk University, Republic of Korea
2002 Ph.D. Texas A&M University, USA
2002-2008 Baylor College of Medicine, Postdoctoral Fellow
2008-2012 CHA University, Assistant Professor
2012-2018 CHA University, Associate Professor
2018-2019 CHA University, Professor
2019- Konkuk University, Professor
2016- Michigan State University, Adjunct Associate Professor

SOCIETY & ACTIVITY

2012-2014 Korean Society for Reproductive Medicine, Editorial board member
2015-2017 Genetics Society of Korea, Advertisement Committee
2012-2018 Korean Society of Animal Reproduction, Associate Editor
2016-2017 Journal of Pineal Research, Editorial board member
2015- Korean Association for Laboratory Animal Science, Program Director
2017- Korean Society of Developmental Biology, Program Committee
2017- Genetics Society of Korea, Development Committee
2017- Korean Society for Reproductive Medicine, Program Committee
2018- Korean Society for Fertility Prevention, Program Committee
2020- Korean Society for Animal Biotechnology, Program Director

AWARD & FELLOWSHIP

1995 **Konkuk University Presidential Award**
2001 **CERH Fellowship**, Texas A&M University
2001 **Final list** on the Trainee Research Competition at the 34th Annual Meeting of the Society for the Study of Reproduction (SSR)
2001 **United States Department of Agriculture National Research Initiative (USDA-NRI) Travel Fellowship** at the 34th Annual Meeting of the Society for the Study of Reproduction (SSR)
2001 **Federation of American Societies for Experimental Biology (FASEB- MARC) program Travel Award** at the 34th Annual Meeting of the Society for the Study of Reproduction (SSR)

- 2002 **United States Department of Agriculture National Research Initiative (USDA-NRI) Travel Fellowship** at the 35th Annual Meeting of the Society for the Study of Reproduction (SSR)
- 2005 **Burroughs Wellcome Fund Travel Fellowship** at the 38th Annual Meeting of the Society for the Study of Reproduction (SSR)
- 2006 **Lalor Foundation Travel Fellowship** at the 39th Annual Meeting of the Society for the Study of Reproduction (SSR)
- 2006 **Honorable Mention** for outstanding poster presentation at the Texas Forum on Reproductive Sciences (TFRS)
- 2006 **Bioneer Award** at the Korean-American Bio-Medical Scientists Symposiums
- 2007 **Best platform presentation** at the Texas Forum on Reproductive Sciences (TFRS)
- 2007 **Bioneer Award (Best poster presentation)** at the Korean-American Bio-Medical Scientists Symposiums
- 2009 **Poster award for outstanding poster presentation** at 7th Conference of the Pacific Rim Society for Fertility and Sterility (PRSFS) and Annual meeting of Taiwanese Society for Reproductive Medicine (TSRM)
- 2011 **Outstanding Topic Presentation Award** at 15th CHA-BIO Conference
- 2014 **First scientific program prize poster** at 70th American Society for Reproductive Medicine Symposium (ASRM)
- 2015 **Best poster presentation award** at 10th Pacific-Rim Society for Reproductive Medicine Symposium (PSRM)
- 2016 **First scientific program prize poster** at 72nd American Society for Reproductive Medicine Symposium (ASRM)

PUBLICATIONS

1. Gurunathan S, Jeyaraj M, La H, Yoo H, **Choi Y**, Do JT, Park C, Kim JH, Hong K. Anisotropic Platinum Nanoparticle-Induced Cytotoxicity, Apoptosis, Inflammatory Response, and Transcriptomic and Molecular Pathways in Human Acute Monocytic Leukemia Cells. **International Journal of Molecular Sciences**. 2020 Jan; 21(2):440.
2. Yoo H, Lee YJ, Park C, Son D, Choi DY, Park JH, Choi HJ, La HW, Choi YJ, Moon EH, Saur D, Chung HM, Song H, Do JT, Jang H, Lee DR, Park C, Lee OH, Cho SG, Hong SH, Kong G, Kim JH, **Choi Y***, **Hong K***. Epigenetic priming by Dot1l in lymphatic endothelial progenitors ensures normal lymphatic development and function. **Cell Death & Disease**. 2020 Jan 6;11(1):14. doi: 10.1038/s41419-019-2201-1. (*Co-corresponding author)
3. Moon S, Lee OH, Lee S, Lee J, Park H, Park M, Chang EM, Park KH, **Choi Y**. STK3/4 Expression Is Regulated in Uterine Endometrial Cells during the Estrous Cycle. **Cells**. 2019 Dec 15;8(12). pii: E1643. doi: 10.3390/cells8121643.

4. Iqbal MA, Hong K, Kim JH, **Choi Y**. Severe combined immunodeficiency pig as an emerging animal model for human diseases and regenerative medicines. **BMB Reports**. 2019 Nov;52(11):625-634. Erratum in: **BMB Rep**. 2019 Dec;52(12):718-727.
5. Yoo I, Seo H, Choi Y, Jang H, Han J, Lee S, **Choi Y**, Ka H. Analysis of interferon- γ receptor IFNGR1 and IFNGR2 expression and regulation at the maternal-conceptus interface and the role of interferon- γ on endometrial expression of interferon signaling molecules during early pregnancy in pigs. **Molecular Reproduction & Development**. 2019 Dec;86(12):1993-2004. doi: 10.1002/mrd.23287.
6. Lee S, Jang H, Moon S, Lee OH, Lee S, Lee J, Park C, Seol DW, Song H, Hong K, Kim JH, Uhm SJ, Lee DR, Lee JW, **Choi Y**. Differential Regulation of *TLE3* in Sertoli Cells of the Testes during Postnatal Development. **Cells**. 2019 Sep 27;8(10). pii: E1156. doi: 10.3390/cells8101156. doi: 10.3390/cells8101156. PMID: 31569653
7. Gurunathan S, Arsalan Iqbal M, Qasim M, Park CH, Yoo H, Hwang JH, Uhm SJ, Song H, Park C, Do JT, **Choi Y**, Kim JH, Hong K. Evaluation of Graphene Oxide Induced Cellular Toxicity and Transcriptome Analysis in Human Embryonic Kidney Cells. **Nanomaterials (Basel)**. 2019 Jul 2;9(7). doi: 10.3390/nano9070969. PMID: 31269699
8. Gurunathan S, Qasim M, Park CH, Arsalan Iqbal M, Yoo H, Hwang JH, Uhm SJ, Song H, Park C, **Choi Y**, Kim JH, Hong K. Cytotoxicity and Transcriptomic Analyses of Biogenic Palladium Nanoparticles in Human Ovarian Cancer Cells (SKOV3). **Nanomaterials (Basel)**. 2019 May 22;9(5). PMID: 31121951
9. Hong K, **Choi Y**. Role of estrogen and RAS signaling in repeated implantation failure. **BMB Reports**. 2018 May;51(5):225-229. Review. PMID:29519295
10. Yoon H, Jang H, Kim EY, Moon S, Lee S, Cho M, Cho HJ, Ko JJ, Chang EM, Lee KA, **Choi Y**. Knockdown of PRKAR2B Results in the Failure of Oocyte Maturation. **Cellular Physiology and Biochemistry**. 2018;45:2009-2020. PMID: 29518769
11. Park HJ, Choi WS, Lee WY, **Choi Y**, Park C, Kim JH, Hong KH, Song H. A novel mouse model of atopic dermatitis that is T helper 2 (Th2)-polarized by an epicutaneous allergen. **Environmental Toxicology and Pharmacology**. 2018 Mar;58:122-130. PMID: 29329020
12. Jang H, Na Y, Hong K, Lee S, Moon S, Cho M, Park M, Lee OH, Chang EM, Lee DR, Ko JJ, Lee WS, **Choi Y**. Synergistic effect of melatonin and ghrelin in

preventing cisplatin-induced ovarian damage via regulation of FOXO3a phosphorylation and binding to the p27^{Kip1} promoter in primordial follicles. **Journal of Pineal Research**. 2017 Oct;63(3):e12432. PMID: 28658519

13. Lee SE, Hyun H, Park MR, **Choi Y**, Son YJ, Park YG, Jeong SG, Shin MY, Ha HJ, Hong HS, Choi MK, Im GS, Park EW, Kim YH, Park C, Kim EY, Park SP. Production of transgenic pig as an Alzheimer's disease model using a multicistronic vector system. **PLoS One**. 2017 Jun 6;12(6):e0177933. PMID: 28586343
14. Jang H, Hong K, **Choi Y**. Melatonin and fertoprotective adjuvants: Prevention against premature ovarian failure during chemotherapy. **International Journal of Molecular Sciences**. 2017 June 7; 18(6):1221. PMID: 28590419
15. Kim HR, Cho KS, Kim E, Lee OH, Yoon H, Lee S, Moon S, Park M, Hong K, Na Y, Shin JE, Kwon H, Song H, Choi DH, **Choi Y**. Rapid expression of RASD1 is regulated by estrogen receptor-dependent intracellular signaling pathway in the mouse uterus. **Molecular and Cellular Endocrinology**. 2017 May 5; 446:32-39. PMID: 28188843
16. Lee Y, Kim KH, Yoon H, Lee OH, Kim E, Park M, Jang H, Hong K, Song H, Ko JJ, Lee WS, Lee KA, Chang EM, **Choi Y**. RASD1 Knockdown Results in Failure of Oocyte Maturation. **Cellular Physiology and Biochemistry**. 2016 Dec 19; 40(6):1289-1302. PMID: 27997888
17. **Choi Y**, Kim JO, Shim SH, Lee Y, Kim JH, Jeon YJ, Ko JJ, Lee WS, Kim NK. Genetic Variation of Methylenetetrahydrofolate Reductase (MTHFR) and Thymidylate Synthase (TS) Genes Is Associated with Idiopathic Recurrent Implantation Failure. **PLoS One**. 2016 Aug 25; 11(8):e0160884. PMID: 27560137
18. **Choi Y**, Kim HR, Lim EJ, Park M, Yoon JA, Kim YS, Kim EK, Shin JE, Kim JH, Kwon H, Song H, Choi DH. Integrative Analyses of Uterine Transcriptome and MicroRNAome Reveal Compromised LIF-STAT3 Signaling and Progesterone Response in the Endometrium of Patients with Recurrent/Repeated Implantation Failure (RIF). **PLoS One**. 2016 Jun 15; 11(6):e0157696. PMID:27304912
19. **Jang HG***, **Choi Y***, Kim JO, Jeon YJ, Rah H, Cho SH, Kim JH, Lee WS, Kim NK. Polymorphisms in tumor necrosis factor-alpha (-863C>A, -857C>T and +488G>A) are associated with idiopathic recurrent pregnancy loss in Korean women. **Human Immunology**. 2016 Jun; 77(6):506-11. PMID:27083536 (***Equal contribution**)
20. Kim M, Ki BS, Hong K, Park SP, Ko JJ, **Choi Y**. Tudor Domain Containing Protein TDRD12 Expresses at the Acrosome of Spermatids in Mouse Testis.

Asian-Australasian Journal of Animal Sciences. 2016 Jul; 29(7):944-51.
PMID:26954166

21. Bae S, Kwon H, Yoon H, Park M, Kim HR, Song H, Hong K, **Choi Y**. Estrogen-dependent expression of sine oculis homeobox 1 in the mouse uterus during the estrous cycle. **Biochemical and Biophysical Research Communications.** 2016 Apr 8; 472(3):489-95. PMID: 26940739
22. Jang H, Lee OH, Lee Y, Yoon H, Chang EM, Park M, Lee JW, Hong K, Kim JO, Kim NK, Ko JJ, Lee DR, Yoon TK, Lee WS, **Choi Y**. Melatonin prevents cisplatin-induced primordial follicle loss via suppression of PTEN/AKT/FOXO3a pathway activation in the mouse ovary. **Journal of Pineal Research.** 2016 Apr;60(3):336-47. PMID: 26882203
23. Lee KH, Lee WY, Kim DH, Lee SH, Do JT, Park C, Kim JH, **Choi YS**, Song H. Vitri-fied canine testicular cells allow the formation of spermatogonial stem cells and seminiferous tubules following their xenotransplantation into nude mice. **Scientific Reports.** 2016 Feb 24;6:21919. PMID: 26907750
24. Lee KH, Lee WY, Kim JH, Park CK, Do JT, Kim JH, **Choi YS**, Kim NH, Song H. Subculture of Germ Cell-Derived Colonies with GATA4-Positive Feeder Cells from Neonatal Pig Testes. **Stem Cells International.** 2016; 2016: 6029271. PMID: 26880974
25. Park M, Lee Y, Jang H, Lee OH, Park SW, Kim JH, Hong K, Song H, Park SP, Park YY, Ko JJ, **Choi Y**. SOHLH2 is essential for synaptonemal complex formation during spermatogenesis in early postnatal mouse testes. **Scientific Reports.** 2016 Feb 12;6:20980. PMID:26869299
26. Kim YS, Kim HR, Kim H, Yang SC, Park M, Yoon JA, Lim HJ, Hong SH, DeMayo FJ, Lydon JP, **Choi Y**, Lee DR, Song H. Deficiency in DGCR8-dependent canonical microRNAs causes infertility due to multiple abnormalities during uterine development in mice. **Scientific Reports.** 2016 Feb 2;6:20242. PMID: 26833131
27. Chang EM, Lim E, Yoon S, Jeong K, Bae S, Lee DR, Yoon TK, **Choi Y***, **Lee WS***. Cisplatin induces overactivation of the dormant primordial follicle through PTEN/AKT/FOXO3a pathway which leads to loss of ovarian reserve in mice. **PLoS One.** 2015 Dec 14;10(12):e0144245. PMID: 26656301 (*Co-corresponding author)
28. Ko HY, Lee J, Lee YS, **Choi Y**, Ali BA, Al-Khedhairy AA, Kim S. Bioimaging of transcriptional activity of microRNA124a during neurogenesis. **Biotechnology Letters.** 2015 Nov; 37(11):2333-40. PMID: 26174608.

29. Park SY, Choi HK, Seo JS, Yoo JY, Jeong JW, **Choi Y**, Choi KC, Yoon HG. DNAJB1 negatively regulates MIG6 to promote epidermal growth factor receptor signaling. **Biochimica et Biophysica Acta (BBA-Molecular Cell Research)**. 2015 Oct; 1853(10 Pt A):2722-30. PMID: 26239118
30. Lee J, Choi K, **Choi Y**, Ali BA, Al-khedhairi AA, Kim S. Sperm DNA-mediated reduction of nonspecific fluorescence during cellular imaging with quantum dots. **Chemical Communications (Camb)**. 2015 Jul 25; 51(58):11584-11586. PMID: 26096719
31. **Choi HK***, **Choi Y***, **Park ES***, Park SY, Lee SH, Seo J, Jeong MH, Jeong JW, Jeong JH, Lee PC, Choi KC, Yoon HG. Programmed cell death 5 mediates HDAC3 decay to promote genotoxic stress response. **Nature Communications**. 2015 Jun 16; 6:7390. PMID: 26077467 (***Equal contribution by these authors**)
32. Park SY, Choi HK, Jo SH, Seo J, Han EJ, Choi KC, Jeong JW, **Choi Y***, **Yoon HG***. YAF2 promotes TP53-mediated genotoxic stress response via stabilization of PDCD5. **Biochimica et Biophysica Acta (BBA-Molecular Cell Research)**. 2015 May;1853 (5):1060-1072. PMID: 25603536 (***Co-corresponding author**)
33. Hong K, Kim YJ, **Choi Y**. Function of TET proteins in germ cell reprogramming. **Genes & Genomics**. 2015 Mar;37(3):223-229. PMID:
34. Hong KS, Bae D, **Choi Y**, Kang SW, Moon SH, Lee HT, Chung HM. A porous membrane-mediated isolation of mesenchymal stem cells from human embryonic stem cells. **Tissue Engineering Part C: Methods**. 2015 Mar;21(3):322-329. PMID: 25190318
35. Park SY, Choi HK, **Choi Y**, Kwak S, Choi KC, Yoon HG. Deubiquitinase OTUD5 mediates the sequential activation of PDCD5 and p53 in response to genotoxic stress. **Cancer Letters**. 2015 Feb 1;357(1):419-427. PMID: 25499082
36. Cui X, Choi HK, **Choi YS**, Park SY, Sung GJ, Lee YH, Lee J, Jun WJ, Kim K, Choi KC, Yoon HG. DNAJB1 destabilizes PDCD5 to suppress p53-mediated apoptosis. **Cancer Letters**. 2015 Feb 1;357(1):307-315. PMID: 25444898
37. Lee OH, Lee J, Lee KH, Woo YM, Kang JH, Yoon HG, Bae SK, Songyang Z, Oh SH, **Choi Y**. Role of the focal adhesion protein TRIM15 in colon cancer development. **Biochimica et Biophysica Acta (BBA-Molecular Cell Research)**. 2015 Feb;1853(2):409-421. PMID: 25450970
38. **Choi HK***, **Choi Y***, Kang H, Lim EJ, Park SY, Lee HS, Park JM, Moon J, Kim YJ, Choi I, Joe EH, Choi KC, Yoon HG. PINK1 positively regulates HDAC3 to suppress dopaminergic neuronal cell death. **Human Molecular Genetics**. 2015 Feb 15;24(4):1127-1141. PMID: 25305081 (***Equal contribution**)

39. Lim W, Bae SM, Jo G, Bazer FW, **Choi Y***, **Song G***. Prostaglandin D₂ synthase related to estrogen in the female reproductive tract. **Biochemical and Biophysical Research Communications**. 2015 Jan 2;456(1):355-360. PMID: 25475724 (*Co-corresponding author)
40. Jeong JH, Park M, Park M, Lim EJ, Kim HR, Song H, Park SG, Choi EJ, Hong KH, Lee DR, Ko JJ, **Choi Y**. The expression of aminoacyl-tRNA-synthetase-interacting multifunctional protein-1 (Aimp1) is regulated by estrogen in the mouse uterus. **Molecular and Cellular Endocrinology**. 2015 Jan 5;399:78-86. PMID: 25132647
41. Bae H, Lim W, Bae SM, Bazer FW, **Choi Y***, **Song G***. Avian prostatic acid phosphatase: estrogen regulation in the oviduct and epithelial cell-derived ovarian carcinomas. **Biology of Reproduction**. 2014 Jul;91(1):3, 1-8. PMID: 24829029 (*Co-corresponding author)
42. Joo JY, Lee J, Ko HY, Lee YS, Lim DH, Kim EY, Cho S, Hong KS, Ko JJ, Lee S, Lee YS, **Choi Y**, Lee KA, Kim S. Microinjection free delivery of miRNA inhibitor into zygotes. **Scientific Report**. 2014 Jun 24;4:5417. PMID:24957209
43. Hong KS, Byun KH, Seo J, Lee HJ, Choi JJ, Kim KS, **Choi Y**, Moon SH, Chung HM. Modification to the injection needle to a screw needle improves effective cell delivery in acute myocardial infarction. **Biotechnology Letters**. 2014 Apr;36(4):859-868. PMID: 24322769
44. Rah H, Jeon YJ, Ko JJ, Kim JH, Kim YR, Cha SH, **Choi Y**, Lee WS, Kim NK. Association of inhibin α gene promoter polymorphisms with risk of idiopathic primary ovarian insufficiency in Korean women. **Maturitas**. 2014 Feb;77(2):163-167. PMID: 24269065
45. Habib O, Habib G, Moon SH, Hong KS, Do JT, **Choi Y**, Chang SW, Chung HM. Ground-state conditions promote robust Prdm14 reactivation and maintain an active Dlk1-Dio3 region during reprogramming. **Molecular Cells**. 2014 Jan;37(1):31-35. PMID: 24552707
46. Lee OH, Kim J, Kim JM, Lee H, Kim EH, Bae SK, **Choi Y**, Nam HS, Heo JH. Decreased expression of sirtuin 6 is associated with release of high mobility group box-1 after cerebral ischemia. **Biochemical and Biophysical Research Communications**. 2013 Aug 23;438(2):388-394. PMID:23899523
47. Kim M, Park HJ, Seol JW, Jang JY, Cho YS, Kim KR, **Choi Y**, Lydon JP, Demayo FJ, Shibuya M, Ferrara N, Sung HK, Nagy A, Alitalo K, Koh GY. VEGF-A regulated by progesterone governs uterine angiogenesis and vascular remodelling during pregnancy. **EMBO Molecular Medicine**. 2013 Sep;5(9):1415-1430. PMID: 23853117

48. Lim EJ, **Choi Y**. Transcription factors in the maintenance and survival of primordial follicles. **Clin Exp Reprod Med**. 2012 Dec;39(4):127-131. PMID: 23346521
49. Rah H, Jeon YJ, **Choi Y**, Shim SH, Yoon TK, Choi DH, Cha SH, Kim NK. Association of methylenetetrahydrofolate reductase (MTHFR 677C>T) and thymidylate synthase (TSER and TS 1494del6) polymorphisms with premature ovarian failure in Korean women. **Menopause**. 2012 Nov;19(11):1260-1266. PMID: 22713864
50. Rah H, Jeon YJ, **Choi Y**, Shim SH, Ko JJ, Yoon TK, Cha SH, Kim NK. Association between kinase insert domain-containing receptor polymorphisms (-604T>C, 1192G>A, 1719A>T) and premature ovarian failure in Korean women. **Menopause**. 2012 Sep;19(9):1037-1042. PMID: 22510937
51. Seo H, Choi Y, Shim J, **Choi Y**, Ka H. Regulatory mechanism for expression of IL1B receptors in the uterine endometrium and effects of IL1B on prostaglandin synthetic enzymes during the implantation period in pigs. **Biology of Reproduction**. 2012 Aug 9;87(2):31. PMID:22572995
52. Rah H, Choi YS, Jeon YJ, **Choi Y**, Cha SH, Choi DH, Ko JJ, Shim SH, Kim NK. Solute Carrier Family 19, member 1 (SLC19A1) polymorphisms (-43T>C, 80G>A, and 696C>T), and haplotypes in idiopathic recurrent spontaneous abortion in a Korean population. **Reproductive Sciences**. 2012 May;19(5):513-519. PMID: 22344739
53. Bak CW, Yoon TK, **Choi Y**. Functions of PIWI proteins in spermatogenesis. **Clin Exp Reprod Med**. 2011 Jun;38(2):61-67. PMID: 22384420
54. Jeon YJ, **Choi Y**, Shim SH, Choi YS, Ko JJ, Yoon TK, Cha SH, Kim NK. Vascular endothelial growth factor gene polymorphisms in Korean patients with premature ovarian failure. **Eur J Obstet Gynecol Reprod Biol**. 2011 Nov;159(1):138-142. PMID: 21831507
55. Choi HW, Kim JS, Choi S, Jang HJ, Kim MJ, **Choi Y**, Schöler HR, Chung HM, Do JT. Neural stem cells achieve and maintain pluripotency without feeder cells. **PLoS One**. 2011;6(6):e21367. PMID: 21738644
56. Choi YS, Kwon H, Kim JH, Shin JE, **Choi Y**, Yoon TK, Choi DH, Kim NK. Haplotype-based association of ACE I/D, AT1R 1166A>C, and AGT M235T polymorphisms in renin-angiotensin-aldosterone system genes in Korean women with idiopathic recurrent spontaneous abortions. **Eur J Obstet Gynecol Reprod Biol**. 2011 Oct;158(2):225-228. PMID: 21636204
57. Lechowska A, Bilinski S, **Choi Y**, Shin Y, Kloc M, Rajkovic A. Premature ovarian failure in nobox-deficient mice is caused by defects in somatic cell

- invasion and germ cell cyst breakdown. **J Assist Reprod Genet.** 2011 Jul;28(7):583-589. PMID: 21369782
58. Shin YH, **Choi Y**, Erdin SU, Yatsenko SA, Kloc M, Yang F, Wang PJ, Meistrich ML, Rajkovic A. Hormad1 mutation disrupts synaptonemal complex formation, recombination, and chromosome segregation in mammalian meiosis. **PLoS Genetics.** 2010 Nov 4;6(11):e1001190. PMID: 21079677
 59. Do JT, Choi HW, **Choi Y**, Schöler HR. Pluripotent hybrid cells contribute to extraembryonic as well as embryonic tissues. **Stem Cells and Development.** 2011 Jun;20(6):1063-1069. PMID:20946016
 60. Choi M, Lee OH, Jeon S, Park M, Lee DR, Ko JJ, Yoon TK, Rajkovic A, **Choi Y**. The oocyte-specific transcription factor, Nobox, regulates the expression of Pad6, a peptidylarginine deiminase in the oocyte. **FEBS Letters.** 2010 Aug 20;584(16):3629-3634. PMID: 20659469
 61. **Choi Y**, Jeon S, Choi M, Lee MH, Park M, Lee DR, Jun KY, Kwon Y, Lee OH, Song SH, Kim JY, Lee KA, Yoon TK, Rajkovic A, Shim SH. Mutations in SOHLH1 gene associate with nonobstructive azoospermia. **Human Mutation.** 2010 Jul;31(7):788-793. PMID: 20506135
 62. **Kang HB***, **Choi Y***, Lee JM, Choi KC, Kim HC, Yoo JY, Lee YH, Yoon HG. The histone methyltransferase, NSD2, enhances androgen receptor-mediated transcription. **FEBS Letters.** 2009 Jun 18;583(12):1880-1886. PMID: 19481544
(Equal contribution by these authors)
 63. Fleming JA, Song G, **Choi Y**, Spencer TE, Bazer FW. Interferon regulatory factor 6 (IRF6) is expressed in the ovine uterus and functions as a transcriptional activator. **Molecular and Cellular Endocrinology.** 2009 Feb 27;299(2):252-260. PMID: 19022341
 64. **Choi Y**, Yuan D, Rajkovic A. Germ cell-specific transcriptional regulator sohlh2 is essential for early mouse folliculogenesis and oocyte-specific gene expression. **Biology of Reproduction.** 2008 Dec;79(6):1176-1182. PMID: 18753606
 65. Krotz SP, Ballow DJ, **Choi Y**, Rajkovic A. Expression and localization of the novel and highly conserved gametocyte-specific factor 1 during oogenesis and spermatogenesis. **Fertility & Sterility.** 2009 May;91(5 Suppl):2020-2024. PMID: 18706558
 66. **Choi Y**, Ballow DJ, Xin Y, Rajkovic A. Lim homeobox gene, lhx8, is essential for mouse oocyte differentiation and survival. **Biology of Reproduction.** 2008 Sep;79(3):442-449. PMID: 18509161
 67. Zhao H, Chen ZJ, Qin Y, Shi Y, Wang S, **Choi Y**, Simpson JL, Rajkovic A.

- Transcription factor FIGLA is mutated in patients with premature ovarian failure. **Am J Hum Genet.** 2008 Jun;82(6):1342-1348. PMID: 18499083
68. Qin Y, **Choi Y**, Zhao H, Simpson JL, Chen ZJ, Rajkovic A. NOBOX homeobox mutation causes premature ovarian failure. **Am J Hum Genet.** 2007 Sep;81(3):576-581. PMID: 17701902
69. **Choi Y**, Qin Y, Berger MF, Ballow DJ, Bulyk ML, Rajkovic A. Microarray analyses of newborn mouse ovaries lacking Nobox. **Biology of Reproduction.** 2007 Aug;77(2):312-319. PMID: 17494914
70. **Choi Y**, Rajkovic A. Characterization of NOBOX DNA binding specificity and its regulation of Gdf9 and Pou5f1 promoters. **J Biol Chem.** 2006 Nov 24;281(47):35747-35756. PMID: 16997917
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73. Gray CA, Abbey CA, Beremand PD, **Choi Y**, Farmer JL, Adelson DL, Thomas TL, Bazer FW, Spencer TE. Identification of endometrial genes regulated by early pregnancy, progesterone, and interferon tau in the ovine uterus. **Biology of Reproduction.** 2006 Feb;74(2):383-394. PMID: 16251498
74. Yoon HG, **Choi Y**, Cole PA, Wong J. Reading and function of a histone code involved in targeting corepressor complexes for repression. **Molecular and Cellular Biology.** 2005 Jan;25(1):324-335. PMID: 15601853
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76. Kim S, **Choi Y**, Spencer TE, Bazer FW. Effects of the estrous cycle, pregnancy and interferon tau on expression of cyclooxygenase two (COX-2) in ovine endometrium. **Reproductive and Biological Endocrinology.** 2003 Aug 20;1:58. PMID: 12956885
77. **Choi Y**, Johnson GA, Spencer TE, Bazer FW. Pregnancy and interferon tau regulate major histocompatibility complex class I and beta2-microglobulin expression in the ovine uterus. **Biology of Reproduction.** 2003 May;68(5):1703-1710. PMID: 12606392

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79. **Choi Y**, Johnson GA, Burghardt RC, Berghman LR, Joyce MM, Taylor KM, Stewart MD, Bazer FW, Spencer TE. Interferon regulatory factor-two restricts expression of interferon-stimulated genes to the endometrial stroma and glandular epithelium of the ovine uterus. **Biology of Reproduction**. 2001 Oct;65(4):1038-1049. PMID: 11566724
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(**Equal contribution by these authors**)
81. Johnson GA, Stewart MD, Gray CA, **Choi Y**, Burghardt RC, Yu-Lee LY, Bazer FW, Spencer TE. Effects of the estrous cycle, pregnancy, and interferon tau on 2',5'-oligoadenylate synthetase expression in the ovine uterus. **Biology of Reproduction**. 2001 May;64(5):1392-1399. PMID: 11319143.