

## Saadeldin's PUBLICATIONS

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### A- Patent of Invention:

“Method of transgenic bovine cloned embryos using piggybac transposition” at European patent Office, Filled #KR20130083311 (2013-07-22) and Granted #KR101552595 (2015-09-14); Lee BC, Jang G, K SJ, **Saadeldin IM**, Lee SJ, Lee WW, Kim BH, Choi WJ.

### B- Thesis:

Islam M. Saadeldin (2012): Temporal interplay between the genes that control interferon *tau* in early *in vitro* fertilization- and nuclear transfer-derived bovine embryos, PhD in Veterinary Medicine from Seoul National University, **South Korea**.

Islam M. Saadeldin (2007): Effect of electromagnetic field on some physiological parameters in rats, Master in Veterinary Medical Sciences from Zagazig University, Zagazig University Press.

### C- Peer-Reviewed papers in SCI and SCIE journals (Impact Factor-2015):

1. **Saadeldin IM**, Chandriani K, Kim SJ, Mooh JH, El-Maadly E, Lee BC. 2016 Blastocysts derivation from somatic cell fusion with premature oocytes (Prematuration somatic cell fusion). **Development, Growth and Differentiation** 58 (2): 157-166, (IF: 2.47) (DOI: 10.1111/dgd.12264).
2. Hussein MH, Ali HA, **Saadeldin IM**, Ahmed MM. 2016 Querectin Alleviates Zinc Oxide Nanoreprotoxicity in Male Albino Rats. **J Biochem Molecular Toxicology**. (IF:2.1) (DOI: 10.1002/jbt)
3. Abdelfattah-Hassan A, **Saadeldin IM**, Ghonimi W (2016): Optimization of the isolation process of putative bovine mammary stem cells. **The Japanese journal of veterinary research**, 64:S65-S71 (IF: 0.27)
4. **Saadeldin IM**, Oh HyunJu, Lee BC (2015): Embryonic-maternal crosstalk via exosomes: Potential implications (Opinion). **J Stem Cells & Cloning**, 8:103-107
5. Oh HJ, Kim GA, Rhee SH, Kim MJ, **Saadeldin IM**, Lee BC (2015): Age-dependent Alteration of Transgene Expression and Cytomegalovirus Promoter Methylation in Transgenic Cloned and Recloned Dogs. **Molecular Reproduction and Development** 82(5):330-331 (IF: 2.475) DOI 10.1002/mrd.22481

6. **Saadeldin IM**, Kim SJ, Lee BC (2015): Blastomere aggregation as an efficient alternative for trophoblast culture in porcine parthenotes. **Development, Growth and Differentiation** 57(5):362-368 (IF:2.47) (doi: 10.1111/dgd.12215)
7. Kim SJ, Moon JH, da Torre BR, **Saadeldin IM**, Lee BC, Jang G (2015): Oct4 overexpression Facilitates Proliferation of Porcine Fibroblasts and Development of Cloned Embryos. 23(5):704-711, **Zygote** (IF: 1.241) (DOI: <http://dx.doi.org/10.1017/S0967199414000355>).
8. **Saadeldin IM**, Kim SJ, Choi YB, Lee BC (2014): Improvement of cloned embryos development by co-culturing with parthenotes: a possible role of exosomes/microvesicles for embryos paracrine communication. **Cellular Reprogramming**. 16(3):223-234 (IF: 2.744) (doi:10.1089/cell.2014.0003).
9. Jung-Taek Kang, Joon Ho Moon, Ji-Yei Choi, Sol Ji Park, Su Jin Kim, Islam M. Saadeldin, Byeong Chun Lee (2016): Effect of antioxidant flavonoids (Quercetin and Taxifolin) on in vitro maturation of porcine oocytes. **Asian-Australasian J. Animal Science**, 29(3): 352-358 (IF: 0.77)(Doi: <http://dx.doi.org/10.5713/ajas.15.0341>).
10. **Saadeldin IM**, Oh HJ, Lee BC (2015): Improvement of cloned embryos development by co-culturing with parthenotes using microdrop culture system. **Cloning & Transgenesis** 4:e117. (doi: [10.4172/2168-9849.1000e117](https://doi.org/10.4172/2168-9849.1000e117)).
11. **Saadeldin IM** (2015): Cloning and its Applications (Editorial). **Cloning & Transgenesis**, 4:e118. (doi: [10.4172/2168-9849.1000e118](https://doi.org/10.4172/2168-9849.1000e118)).
12. **Saadeldin IM** (2015): Transgenesis through blastomeres transfection (Clinical image). **Cloning & Transgenesis**, 4:i103. (doi: [10.4172/2168-9849.1000i103](https://doi.org/10.4172/2168-9849.1000i103)).
13. **Saadeldin IM**, Kim SJ, Choi YB, Lee BC (2014): Post-maturation zona perforation improves porcine parthenogenetic trophoblast culture. **Placenta** 35(4):286-288 (IF: 3.117).
14. **Saadeldin IM**, Koo OJ, Kang JT, Kwon DK, Park SJ, Kim SJ, Moon JH, Oh HJ, Jang G, Lee BC (2012): Paradoxical effects of kisspeptin: it enhances oocytes in vitro maturation while it has an adverse impact on hatched blastocysts during in vitro culture. **Reproduction, Fertility and Development** 24(5):656-668 (IF: 2.553).
15. **Saadeldin IM**, Kim BH, Lee BC and Jang G (2011): Effect of different culture media on the temporal gene expression in the bovine developing embryos. **Theriogenology** 75(6):995-1004 (IF: 2.045).
16. **Saadeldin IM**, Choi WJ, da Torre BR, Kim BH, Lee BC, Jang G (2012): Embryonic development and implantation related gene expression of reconstructed oocyte with bovine trophoblast cells. **Journal of Reproduction and Development** 58(4):425-431 (IF: 1.637).
17. Kim SJ\*, **Saadeldin IM\***, Lee SJ, Lee WW, Kim BH, Lee BC and Jang G (2011): Production of transgenic bovine cloned embryos using piggybac transposition. **J. Vet.**

**Med. Sci.** 73(11): 1453–1457 (IF: 0.722) (\* **equally contributed 1<sup>st</sup> authors**).

18. Saadeldin **IM**, Ali MF, Hamada MZ, El-Badry AA (2011): Effects of exposure to 50 Hz, 1 Gauss magnetic field on reproductive traits in male albino rats. **Acta Vet Brno** 80(1):107-111 (IF: 0.534).

19. Saadeldin **IM**, Elsayed A. Kim SJ, Moon JH, Lee BC (2015): A spatial model showing differences between juxtacrine and paracrine mutual oocyte-granulosa cells interactions. **Ind. J. of Experimental Biology**. 53(2), 75-81 (IF: 0.75).

20. Kwon DK, Saadeldin **IM**, Koo OJ, Park SJ, Kang JT, Park HJ, Kim SJ, Moon JH, Jang G, and Lee BC (2014): Optimizing Electrical Activation of Porcine Oocytes by Adjusting Pre- and Post- Activation Mannitol Exposure Times. **Reprod Domest Anim** 49(6): 995-999 (IF: 1.117) (DOI: 10.1111/rda.12420).

21. Park JE, Kim MJ, Ha SK, Hong SG, Oh HJ, Kim GA, Park EJ, Kang JT, Saadeldin **IM**, Jang G, Lee BC (2012): Altered cell cycle gene expression and apoptosis in post-implantation dog parthenotes. **PloS one** 7(8):e41256. (IF: 3.5).

22. Moon JH, Kim SJ, Park HJ, Kang JT, Park SJ, Koo OJ, da Torre BR, Saadeldin **IM**, Lee BC, Jang G (2012): Production of porcine cloned embryos derived from conditionally exogenous gene expressing cells using Cre-loxP. **Zygote**. 20(4):423-425. (IF: 1.241).

23. Choi JY, Kang JT, Park SJ, Kim SJ, Moon JH, Saadeldin **IM**, Jang G, Lee BC (2013): Effect of 7,8-Dihydroxyflavone as an Antioxidant on In Vitro Maturation of Oocytes and Development of Parthenogenetic Embryos in Pigs. **J Reprod Develop**. 59(5):450-456 (IF: 1.637).

24. Kim SJ, Moon JH, da Torre BR, Saadeldin **IM**, Kang JT, Choi JY, Park SJ, Lee BC, Jang G (2013): DsRed gene expression by doxycycline in porcine fibroblasts and cloned embryo using transposon. **Afr J Biotechnology** 12(21): 3188-3190. (IF: 0.57).

25. Oh HJ, Saadeldin **IM**, Lee BC (2013): Toward A Transgenic Dog as a Human Disease Model. **J IVF Reprod Med Genet** 1: e102. (doi:10.4172/ jfiv.1000e102)

26. Saadeldin **IM**, Fadel MA, Hamada MZ and El-Badry AA (2008): Hazards from exposure to 50 Hz, 1 Gauss magnetic field on reproduction in male albino rats. **Egypt J Basic Appl Physiol**, 7(1): 85-97.

27. Magdeldin S, Ismail T, Saadeldin **I**, and Yamamoto T (2008): Dehydration- inducible changes on the genetic expression of aquaporin family in C57BL/6J mice. **Egypt J Basic Appl Physiol**, 7(S1): 35-51.

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#### **D- Peer-Reviewed Abstracts presented at International Conferences and cited in SCI journals**

1. Saadeldin **IM**, Kim BH, da Torre BR, Jang G and Lee BC: Reprogramming of bovine trophectoderm karyoplast by nuclear transfer. 8<sup>th</sup> ERD day of Seoul national University, Seoul, Korea, November 5<sup>th</sup>, 2010. P94.

2. Kim BH, **Saadeldin IM**, Lee BC and Jang G: The synergic effect of nerve growth factor and vascular endothelial growth factor on in vitro maturation and developmental competence in bovine oocytes. 8<sup>th</sup> ERD day of Seoul national University, Seoul, Korea, November 5<sup>th</sup>, 2010. P100.
3. **Saadeldin IM**, Kim BH, da Torre BR, Koo OJ, Jang G and Lee BC: Isolation of bovine trophoblast and its reprogramming by nuclear transfer. The proceedings of 37th annual conference of IETS, Florida, USA, January 8-12, 2011 (Cited: *Reproduction, Fertility and Development, 2011, 23:134-135*) (PMID: 21367041).
4. Kim BH, **Saadeldin IM**, Lee BC and Jang G: The synergic effect of nerve growth factor and vascular endothelial growth factor on in vitro maturation and developmental competence in bovine oocytes. The proceedings of 37th annual conference of IETS, Florida, USA, January 8-12, 2011 (Cited: *Reproduction, Fertility and Development, 2011, 23:169-170*) (PMID: 21367114).
5. **Saadeldin IM**, Kim BH, da Torre BR, Koo OJ, Jang G and Lee BC: IVF- or NT-derived trophoblast culture: An easy model for revealing interferon tau epigenetics and transgenesis. The 2<sup>nd</sup> International Joint Workshop between the United Graduate School of Veterinary Sciences, Gifu University (UGSVS-GU) and College of Veterinary Medicine, Seoul National University (SNU), February 19-21, 2011. Shiba-Yayoi hotel, Tokyo, Japan.
6. **Saadeldin IM**, Koo OJ, Kang JT, Kwon DK, Park SJ, Kim SJ, Moon JH, Oh HJ, Jang G, and Lee BC: Kisspeptin enhances porcine oocyte in vitro maturation but may adversely affect early embryonic development. Poster presentation at the 44th SSR Annual Meeting, July 31 - August 4, 2011, in Portland, Oregon, USA (Cited; *Biology of Reproduction, 2011, 85:434*).
7. Kwon DK, Koo OJ, Park SJ, Kang JT, Park HJ, Kim SJ, Moon JH, **Saadeldin IM**, Jang G, and Lee BC: Optimizing porcine oocytes electrical activation by adjusting pre- and post-activation mannitol exposure time. Oral presentation at the 44th SSR Annual Meeting, July 31 - August 4, 2011, in Portland, Oregon, USA (Cited; *Biology of Reproduction, 2011, 85:176*).
8. Kang JT, Kwon DK, Park SJ, Kim SJ, Moon JH, **Saadeldin IM**, Koo OJ, Jang G, and Lee BC: Quercetin improves in vitro development of porcine oocytes by decreasing reactive oxygen species levels. Poster presentation at the 44th SSR Annual Meeting, July 31 - August 4, 2011, in Portland, Oregon, USA (Cited; *Biology of Reproduction, 2011, 85:589*).
9. Jang G, Kim SJ, **Saadeldin I**, Choi WJ, Lee SJ, Lee WW, Lee BC, Cho JK, Moon JH. Production of transgenic bovine cloned embryos using piggyBac transposition. Poster presentation at the 10th transgenic technology (TT) meeting, October 24-26, 2011, in TradeWinds Island Grand Resort, St Pete Beach, Florida, USA. (Cited;

*Transgenic Research, 2011, 30:1176–1177).*

10. **Saadeldin IM**, Elsayed A, Kang JT, Park SJ, Kim SJ, Moon JH, Jang G, Lee BC: Using of Porcine Granulosa Cells as Feeders for Porcine and Bovine Trophectoderm Cell Culture. The proceedings of the 38th annual conference of IETS, Arizona, USA, 2012 (Cited: *Reproduction, Fertility and Development, 2012, 24:144*).
11. Moon JH, Kim SJ, Park HJ, Kang JT, Park SJ, Koo OJ, da Torre BR, **Saadeldin IM**, Lee BC, Jang G: Production of porcine cloned embryos derived from conditionally exogenous gene expressing cells using Cre-loxP. The 11<sup>th</sup> international Symposium on Developmental Biotechnology, October 21-22, 2011 & The 9th day of Education, Research and Development (2010-ERD-day), Seoul National University, November 11, 2011, Seoul, Korea.
12. Kim SJ, **Saadeldin IM**, Lee SJ, Lee WW, Kim BH, Lee BC and Jang G: Production of transgenic bovine cloned embryos using piggybac transposition. The 3<sup>rd</sup> International Joint Workshop between the United Graduate School of Veterinary Sciences, Gifu University (UGSVS-GU) and College of Veterinary Medicine, Seoul National University (SNU), February 8-9, 2012, Lotte city hotel, Gimpo, Korea.
13. **Saadeldin IM**, Elsayed A, Jang G, Lee BC: Juxtacrine and paracrine mutual oocytes-granulosa cells interaction: a proposed model. Proceedings of the 17th International Congress on Animal Reproduction (ICAR2012), Vancouver, Canada; 29 July - 2 August 2012 (Cited; *Reproduction in Domestic Animals 2012, 47; Suppl. 4:535*).
14. Choi JY, Kang JT, Park SJ, Kim SJ, Moon JH, **Saadeldin IM**, Kim T, Jang G, Lee BC: 7,8-Dihydroxyflavone Improves In Vitro Development of Porcine Oocytes/Embryos by Decreasing Reactive Oxygen Species Levels. Poster presentation at the 45th SSR Annual Meeting, August 12-15, 2012, in The Pennsylvania State University, State College, Pennsylvania, USA.
15. Moon JH, Kim SJ, Kang JT, Park SJ, Choi JY, Lee JH, **Saadeldin IM**, Oh HJ, Park JE, Kim MJ, Kim GA, Park EJ, Choi J, Jang G, Lee BC: Effects of Porcine Seminal Plasma in In Vitro Culture of Embryos. (Cited: *Reproductive & Developmental Biology, 2012, 36 (2-Supplement):106*).
16. Moon JH, Kim SJ, Kang JT, Park SJ, Choi JY, Lee JH, **Saadeldin IM**, Oh HJ, Park JE, Kim MJ, Kim GA, Park EJ, Choi J, Jang G, Lee BC: Effects of Porcine Seminal Plasma in In Vitro Culture of Embryos. The proceedings of the 39th annual conference of IETS, Hannover, Germany, 2013 (*Cited: Reproduction, Fertility and Development, 2013, 25:219*).
17. Choi WJ, Lee SJ, Lee WW, Kim SJ, **Saadeldin IM**, Cho JK, Lee BC, Jang G: Implantation of transgenic bovine cloned embryos derived from transfected cells by piggybac transposition. The proceedings of the 39th annual conference of IETS,

Hannover, Germany, 2013 (Cited: Reproduction, Fertility and Development, 2013, 25:173-174).

18. **Saadeldin IM**, Kim SJ, Choi YB, Lee BC. Improvement of cloned embryos development via co-culturing with parthenotes: a possible role of exosomes/microvesicles for embryos paracrine communication. In the proceeding of the Third International Meeting of ISEV 2014. Rotterdam, The Netherlands, April 30th – May 3rd, 2014; Citation: Journal of Extracellular Vesicles 2014, 3: 24214 - <http://dx.doi.org/10.3402/jev.v3.24214>
19. **Saadeldin IM**, Kim SJ, Lee SH, Lee BC. Blastomeres aggregation is an efficient alternative for trophoblast stem cells culture of parthenogenetic porcine embryos. In the proceeding of Swine In biomedical Research 2014 International Conference, North Carolina State University, July 6-8, 2014, Raleigh, NC, USA.
20. **Saadeldin IM**, Moon JH, Kim SJ, Park EJ, Lee BC. Advantageous effects of porcine parthenogenetic embryos aggregation. In the proceeding of the [47th SSR Annual Meeting](#), July 19-23, 2014, Grand Rapids, Michigan, USA.
21. Candrani Khoirinaya, **Saadeldin IM**, SuJin Kim, SangHoon Lee, HyunJu Oh, ByeongChun Lee. Electro-osmotic parthenogenetic activation of porcine oocyte. Asia Life Sciences 2014 The Inaugural Asian Conference on the Life Sciences and Sustainability August 27th to 29th, 2014 KKR Hotel Hiroshima, Japan <http://www.esdfocus.org/life-sciences-conference/>
22. **Saadeldin IM**, Khoirinaya C, Lee S, Oh H, Lee BC. Blastocysts derivation after somatic cell fusion with premature oocytes. The 22<sup>nd</sup> World Congress of Controversies in Obstetrics, Gynecology and Infertility (COGI22), 17-19<sup>th</sup> September, 2015. Budapest, Hungary.