

Islam M. Saadeldin, DVM, MVS, Ph.D.

Associate Professor, King Saud University

- Asian Universities Alliance (AUA) Scholar Award in 2019.
- Postdoctoral fellow at Seoul National University, South Korea (2013-2014).
- Misr Elkheir Foundation Prize for International Publications 2014.
- Ph.D. degree from Seoul National University, South Korea in 2012.
- Visiting scholar at Niigata University, Japan (2008).
- Patent of invention (The Korean Intellectual Property Office), transgenic bovine embryos.
- Authored more than 90 SCI/SCIE peer-reviewed papers.
- Editorial board of journals "Journal of Animal Reproduction & Biotechnology", "Cloning and Transgenesis", "Reproductive Medicine International", and an associate editor for "The Open Stem Cell journal".
- Ad hoc reviewer (Top 1% in Publons, WOS) for reviewing more than 200 international journals.
- Islamic Development Bank Merit Scholarship (IDB-MSP) 2009.

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Publons (Web of Science)

<https://publons.com/researcher/1281062/>

Patent of invention

Method of transgenic bovine cloned embryos using piggybac transposition.

Korean Intellectual Property Office (KIPO)

Registration No. 1015525950000 Date: 2015.09.07

Membership in the scientific societies

- The Korean Society of Animal Reproduction & Biotechnology (KSARB).
- Society of Physiological Sciences and their Applications (SPSA) Egypt.
- Egyptian Veterinary Surgeons Syndicate.
- Veterinary Sciences Society (VSS) of Zagazig University.

Work history

2017-12 -

Current

Associate Professor, Physiology

King Saud University, Riyadh, Saudi Arabia

- Supervised and evaluated MS and PhD students.
- Research
- Teaching undergraduates and postgraduates
- Distributed course syllabus and responded to student questions and concerns regarding standards, material, grading and progression.
- Tracked student assignments, attendance and test scores and entered into online database to provide real-time progress monitoring.

2017-02 -

Current

Adjunct Assistant Professor, Physiology

Zagazig University, Zagazig, Egypt

2019-07 -

2019-08

Visiting Professor

Seoul National University, Seoul, South Korea

2013-5-

2014-7

Postdoctoral Fellow, Reproductive Biology

Seoul National University, Seoul, South Korea

- Research
- Grant proposal writing

2013-02 -

2018-03

Lecturer, Physiology

Zagazig University, Zagazig, Egypt

- Developed and proctored exams to properly gauge information retention and student performance.
- Plan and manage development of standards based curriculum, instruction, and assessment plans and strategies.
- Developed semester outlines and instructional plans for class sessions to comply with course objectives.

Scopus *h*-index = 12
Citations = 461

Google scholar *h*-index = 13
Citations = 592

2008-4 Visiting Scholar, Nephrology institute
2008-10 Niigata University, Niigata, Japan
2004-9 Teaching Assistant, Physiology & Reproductive
2012-2 Biology
Zagazig University, Egypt and Seoul National University, Korea

Education & academic degrees

2009-09 - Ph.D.: Reproductive & Developmental Biology
2012-08 Seoul National University - South Korea
2005-03 - Master of Veterinary Sciences: Physiology
2007-05 Zagazig University - Egypt
1998-09 - Bachelor of Veterinary Medicine
2003-06 Zagazig University - Egypt

Book chapter publication

- 1- **Saadeldin IM**, Swelum AA, Alowaimer AN. (2019) In vitro culture of Camelid embryos. In: Comparative Embryo Culture Methods and Protocols, Herrick, Jason R. (Ed.). Methods in Molecular Biology, Vol. 2006. Humana Press, Springer Protocols, Springer-Nature. DOI: 10.1007/978-1-4939-9566-0_15
- 2- Abouelnour A, Noreldin A, **Saadeldin IM** (2019) Hsp90 Is a Pivotal Player in Retinal Disease and Cancer (In: Heat Shock Protein 90 in Human Diseases and Disorders). Heat Shock Proteins, Springer-Nature, DOI: 10.1007/978-3-030-23158-3_9

Peer-Reviewed papers in SCI/SCIE journals publication As First Author

1. **Saadeldin IM**, Swelum AA, ElsafadiM, Mahmood A, Osama A, Shikshaky H, Alfayez M, Alowaimer A, Magdeldin S (2020) Thermotolerance and plasticity of camel somatic cells exposed to acute and chronic heat stress. **Journal of Advanced Research**. <https://doi.org/10.1016/j.jare.2019.11.009>
2. **Saadeldin IM**, Swelum AA, Tukur H, Alowaimer A (2019) Thermotolerance of camel (*Camelus dromedarius*) somatic cells affected by the cell type and the dissociation method. **Environmental Science and Pollution Research** <https://doi.org/10.1007/s11356-019-06208-5>
3. **Saadeldin IM**, Swelum AA, ElsafadiM, Mahmood A, Yaqoob SH, Alfayez M, Alowaimer A (2019) Effect of all-trans retinoic acid on in vitro maturation of camel (*Camelus dromedarius*) cumulus-oocyte complexes. **Journal of Reproduction and Development**. 65(3):215-221. <https://doi.org/10.1262/jrd.2018-073>
4. **Saadeldin IM**, Swelum A, Noreldin A, Tukur H, Abdelazim A, Abomughaid M, Alowaimer A. (2019) Isolation and Culture of Skin-Derived Differentiated and Stem-Like Cells Obtained from the Arabian Camel (*Camelus dromedarius*). **Animals** 9(6): 378. <https://doi.org/10.3390/ani9060378>
5. **Saadeldin, IM**, Hussein, MA, Suleiman, AH et al. (2018) Ameliorative effect of ginseng extract on phthalate and bisphenol A reprotoxicity during pregnancy in rats. **Environ Sci Pollut Res** 25: 21205–21215 <https://doi.org/10.1007/s11356-018-2299-1> (IF: 2.8)
6. **Saadeldin IM**, Swelum AA, ElsafadiM, Mahmood A, Alfayez M, Alowaimer A (2018) Cumulus cells of camel (*Camelus dromedarius*) antral follicles are multipotent stem cells. **Theriogenology** 118: 233-242 <https://doi.org/10.1016/j.theriogenology.2018.06.009> (IF: 2.1)
7. **Saadeldin IM**, Swelum AA, ElsafadiM, Mahmood A, Alfayez M, Alowaimer A (2018) Differences between the tolerance of camel oocytes and cumulus cells to acute and chronic hyperthermia. **Journal of Thermal Biology** 74:47-54 (IF: 2.157) <https://doi.org/10.1016/j.jtherbio.2018.03.014>
8. **Saadeldin IM**, Swelum AA, Abdelazim AM, Elmadaly E. (2018) Effect of Kisspeptin on the Developmental

9. **Saadeldin IM**, Jang G. Sex differences in single IVF-derived bovine embryo cultured in chemically defined medium (2018). *Int. J. Vet. Sci. Med.* 6:S78–S80 (<https://doi.org/10.1016/j.ijvsm.2018.01.002>).
10. **Saadeldin IM**, Swelum AA, Alzahrani F, Alowaimer A. The current perspectives of dromedary camel stem cells research (Review) (2018). *Int. J. Vet. Sci. Med.* 6:S27–S30 (<https://doi.org/10.1016/j.ijvsm.2018.01.003>).
11. **Saadeldin IM**, Swelum AA, ElsafadiM, Moumen A, Alzahrani F, Mahmood A, Alfayez M, Alowaimer A (2017) Isolation and characterization of the trophoctoderm from the Arabian camel (*Camelus dromedarius*). *Placenta* 57(9):113–122. <https://doi.org/10.1016/j.placenta.2017.06.015> (IF:2.75)
12. **Saadeldin IM**, Abdelfattah-Hassan A, Swelum AA (2017) Feeder Cell Type Affects the Growth of In Vitro Cultured Bovine Trophoblast Cells. **BioMed Research International** Volume 2017 (2017), Article ID 1061589, 6 pages. <https://doi.org/10.1155/2017/1061589> (IF: 2.13)
13. **Saadeldin IM**, Swelum A, Yaqoob H, Alowaimer A (2017) Morphometric assessment of in vitro matured dromedary camel oocytes determines the developmental competence after parthenogenetic activation. *Theriogenology* 95 (6): 141–148 (<http://dx.doi.org/10.1016/j.theriogenology.2017.03.015>) (IF: 1.98).
14. **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).
15. **Saadeldin IM**, Oh HyunJu, Lee BC (2015): Embryonic-maternal crosstalk via exosomes: Potential implications (Opinion). *J Stem Cells & Cloning*, 8:103–107 (SJ: 0.8) DOI:10.2147/SCCAA.S84991
16. **Saadeldin IM**, Kim SJ, Lee BC (2015): Blastomere aggregation as an efficient alternative for trophoblast culture in pocine parthenotes. *Development, Growth and Differentiation* 57(5):362–368 (IF:2.47) (DOI: 10.1111/dgd.12215).
17. **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). PMID:[25757237](https://pubmed.ncbi.nlm.nih.gov/25757237/)
18. **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)).
19. **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)).
20. **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)).
21. **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).
22. **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). DOI: 10.1016/j.placenta.2014.02.003
23. **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). DOI: 10.1071/RD11118
24. **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). DOI: 10.1262/jrd.11-112H

25. **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). DOI:10.1016/j.theriogenology.2010.11.006
26. **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). doi:10.2754/avb201180010107

Equally contributed with the First author

27. Swelum AA, **Saadeldin IM**, Moumen A, Ali M, Ba-Awadh, Alowaimer AN (2019) Effects of long-term controlled internal drug release reuse on reproductive performance, hormone profiles, and economic profit of sheep. **R. Bras. Zootec. vol.48 Epub Nov 28, 2019** <http://dx.doi.org/10.1590/rbz4820180085>
28. Swelum AA, **Saadeldin IM**, Abdelnour S., BaAwadh H, Abd El-Hack M, Shieha A. (2020) Relationship between concentrations of macro and trace elements in serum and follicular, oviductal, and uterine fluids of the dromedary camel (*Camelus dromedarius*) Tropical Animal Health and Production. <https://doi.org/10.1007/s11250-019-02137-0>
29. Swelum AA, **Saadeldin IM**, Ba-Awadh, Alowaimer AN., Abdalla H. (2019) Efficiency of Commercial Egg Yolk-Free and Egg Yolk-Supplemented Tris-Based Extenders for Dromedary Camel Semen Cryopreservation. **Animals** 2019, 9(11), 999; <https://doi.org/10.3390/ani9110999>
30. Swelum AA, **Saadeldin IM**, Alowaimer AN. (2019). Effect of short artificial lighting and low temperature in housing rooms during non-rutting season on reproductive parameters of male dromedary camels. **Theriogenology**, 131:133-139. <https://doi.org/10.1016/j.theriogenology.2019.03.038>
31. Swelum AA, **Saadeldin IM**, Moumen A, Ali MA, Alowaimer AN (2018) Efficacy of controlled internal drug release treatment durations on the reproductive performance, hormone profiles, and economic profit of Awassi ewes. **Small Ruminant Research** <https://doi.org/10.1016/j.smallrumres.2018.07.018> (IF: 0.9)
32. Swelum AA, **Saadeldin IM**, Ba-Awadh H, Alowaimer AN (2018) Effects of melatonin implants on the reproductive performance and endocrine function of camel (*Camelus dromedarius*) bulls during the non-breeding and subsequent breeding seasons. **Theriogenology** <https://doi.org/10.1016/j.theriogenology.2018.06.017> (IF: 2.1)
33. Swelum AA, **Saadeldin IM**, Moumen A, Ba-Awadh H, Alowaimer AN (2018) Efficient follicular wave synchronization using a progesterone-releasing intravaginal device (PRIDA) in *Camelus dromedaries*. **Theriogenology** <https://doi.org/10.1016/j.theriogenology.2018.06.008> (IF: 2.1)
34. Swelum AA, **Saadeldin IM**, Ba-Awadh H, Alowaimer AN (2018) Shortened daily photoperiod during the non-breeding season can improve the reproductive performance of camel bulls (*Camelus dromedarius*). **Animal Reproduction Science** 195: 334–344. <https://doi.org/10.1016/j.anireprosci.2018.06.014>
35. Swelum AA, **Saadeldin IM**, Alanazi MB, Ba-Awadh H, Afifi ME. Alowaimer AN (2018) Effects of adding egg yolks of different avian species to Tris glycerol extender on the post-thawing quality of buck semen. **Animal Reproduction Science** 195: 345–354. <https://doi.org/10.1016/j.anireprosci.2018.06.016>
36. Swelum AA-A, **Saadeldin IM**, Moumen AF, et al. (2018) Efficacy of using previously used controlled internal drug release (CIDR) insert on the reproductive performance, hormone profiles and economic measures of sheep. **Reprod Dom Anim.** 2018; 00:1–9. <https://doi.org/10.1111/rda.13212>
37. AA Swelum, **IM Saadeldin**, M Bahadi, M Afifi, M Al-Mutary, AN Alowaimer (2018) The effect of heterologous seminal plasma from ram, buck or camel on the freezability of ram semen. **Veterinari Medicina**, 63(11): 500–512.
38. Yaqoob SH*, **Saadeldin IM***, Swelum AA, Alowaimer AN (2017) Optimizing camel (*Camelus dromedarius*) oocytes in vitro maturation and early embryo culture after parthenogenetic activation. **Small Ruminant Research**, 153: 81-86, <http://www.sciencedirect.com/science/article/pii/S0921448817301566> (IF: 1.08). *(Equally contributed with the first).

39. Swelum A*, **Saadeldin IM***, Zaher H, Sawsan A, Alowaimer A (2017) Effect of sexual excitation on testosterone and nitric oxide levels of water buffalo bulls (*Bubalus bubalis*) with different categories of sexual behavior and their correlation with each other. **Animal Reproduction Science** 181: 151-158. <https://doi.org/10.1016/j.anireprosci.2017.04.003> (IF: 1.3) *(Equally contributed with the first).
40. Swelum AA, **Saadeldin IM**, Abu-Heif M. (2017) Impacts of restricted feeding and realimentation on bone development and plasma concentrations of bone-specific biomarkers in lambs. **Journal of Animal and Feed Sciences**, 26:116–122 (IF: 1.05). <https://doi.org/10.22358/jafs/74008/2017>
41. 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 1st authors). DOI: 10.1292/jvms.11-0054

Co-author (shared Experiments and Writing)

42. Shahin, M. A., Khalil, W. A., **Saadeldin, I. M.**, Swelum, A. A. A., & El-Harairy, M. A. (2020). Comparison between the Effects of Adding Vitamins, Trace Elements, and Nanoparticles to SHOTOR Extender on the Cryopreservation of Dromedary Camel Epididymal Spermatozoa. **Animals**, 10(1), 78. <https://doi.org/10.3390/ani10010078>
43. Hussein M, Gad E, Ahmed M, Arisha A, Mahdy H, Swelum AA, Tukur H, **Saadeldin IM** (2019) Amelioration of titanium dioxide nanoparticle reprotoxicity by the antioxidants morin and rutin. **Environ Sci Pollut Res** <https://doi.org/10.1007/s11356-019-06091-0>
44. Abdelnour S, El-Hack M, Swelum AA, **Saadeldin IM**, Noreldin A, Khafaga A, Al-Mutary M, Arif M, Hussein EO (2019) The Usefulness of Retinoic Acid Supplementation during in Vitro Oocyte Maturation for the in Vitro Embryo Production of Livestock: A Review. **Animals** 2019, 9(8), 561; <https://doi.org/10.3390/ani9080561>
45. Hussein MMA, Elsadaawy HA, El-Murr A, Ahmed MA, Badawy AM, Tukur HA, Swelum AA, **Saadeldin IM** (2019) Endosulfan toxicity in Nile tilapia (*Oreochromis niloticus*) and the use of lycopene as an ameliorative agent. **Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology** 224:108573 <https://doi.org/10.1016/j.cbpc.2019.108573>
46. Mohamed A Hussein, Haytham A Ali, Bahgat A Abd El-Rhman, Timour N Morcoss, Ahmed Elsadek Fakhr, Ayman Abdel Aziz Swelum, Abdullah Alowaimerd, Hamed A Tukur, **Islam M Saadeldin** (2019) Efficacy of Montanide (IMS 3015) as an adjuvant for an inactivated Rift Valley fever (RVF) vaccine in sheep. **Acta Tropica** 190: 193-203.
47. Alzahrani F, El-Magd M, Abdelfattah-Hassan A, Saleh A, **Saadeldin IM**, El-Shetry E, Badawy A, Al-Karim S (2018) Potential effect of exosomes derived from cancer stem cells and MSCs on progression of DEN-induced HCC in rats. **Stem Cell International** <https://doi.org/10.1155/2018/8058979> 2018: 8058979 (IF: 3.9)
48. Abd El-Hack ME, Mahgoub S, Hussein M, **Saadeldin IM** (2018) Improving growth performance and health status of meat-type quail by supplementing the diet with black cumin cold-pressed oil as a natural alternative for antibiotics. **Environ Sci Pollut Res** 25:1157–1167. <https://doi.org/10.1007/s11356-017-0514-0> (IF:2.73).
49. Abdelazim AM, **Saadeldin IM**, Afifi M. Swelum AA (2018) Oxidative stress in the muscles of fish Nile tilapia caused by zinc oxide nanoparticles and its modulation by vitamins C and E. **Oxidative Medicine and Cellular Longevity**, 2018: Article ID 6926712 (IF: 4.593) <https://doi.org/10.1155/2018/6926712>
50. M Hussein, ME Abd El-Hack, SA Mahgoub, **IM Saadeldin**, AA Swelum (2018) Effects of clove (*Syzygium aromaticum*) oil on quail growth, carcass traits, blood components, meat quality, and intestinal microbiota. **Poultry Science**, <https://doi.org/10.3382/ps/pey348> (IF: 2.216).
51. Alzahrani F, Al-Karim S, **Saadeldin IM** (2018) Ameliorative Effect of Mesenchymal Stem Cells-derived Exosomes on Diethylnitrosamine-induced Liver Injury in Albino Rats. **International Journal of Pharmacology**. DOI: 10.3923/ijp.2018 (IF: 0.45).
52. Almadaly EA, Farrag FA, **Saadeldin IM**, El-Magd MA. (2016) Relationship between total protein concentration of seminal plasma and sperm characteristics of highly fertile, fertile and subfertile Barki ram semen collected by electroejaculation. **Small Ruminant Research** 144:90-99 <http://dx.doi.org/10.1016/j.smallrumres.2016.07.023>

(IF: 1.01)

53. Hussein MH, Ali HA, **Saadeldin IM**, Ahmed MM. (2016) Quercetin Alleviates Zinc Oxide Nanoreprotoxicity in Male Albino Rats. **J Biochem Molecular Toxicology** 30(10):489-496. (IF:2.1) (DOI: 10.1002/jbt)
54. 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)
55. 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: [10.5713/ajas.15.0341](https://doi.org/10.5713/ajas.15.0341)).
56. 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
57. 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. **Zygote** (IF: 1.241) 23(5):704-711, (DOI: 10.1017/S0967199414000355).
58. 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).
59. 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). DOI: [10.1262/jrd.2012-134](https://doi.org/10.1262/jrd.2012-134)
60. 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). DOI: 10.5897/AJB12.2027
61. 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).
62. 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). DOI:[10.1371/journal.pone.0041256](https://doi.org/10.1371/journal.pone.0041256)
63. 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). DOI:[10.1017/S0967199411000773](https://doi.org/10.1017/S0967199411000773)
64. 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.

Co-author (shared writing and supervision)

65. Nasr MA, Mohamed H, Hassan R, Swelum AA, **Saadeldin IM** (2019) Does light intensity affect the behavior, welfare, performance, meat quality, amino acid profile and egg quality of Japanese quails? **Poultry Science** 98(8): 3093–3102. <https://doi.org/10.3382/ps/pez089>.
66. Rab N. Soomro Mohamed E. Abd El-Hack Syed S. Shah Ayman E. Taha Mahmoud Alagawany Ayman A. Swelum Elsayed O.S. Hussein Hani A. Ba-Aawdh **Islam Saadeldin** Mohamed A. El-Edel Vincenzo Tufarelli (2019) Impact of restricting feed and probiotic supplementation on growth performance, mortality and carcass traits of meat-type quails. **Animal Science Journal** <https://doi.org/10.1111/asj.13290>
67. EOS Hussein, GM Suliman, AN Al-Owaimer, SH Ahmed, AM Abudabos, ME Abd El-Hack, AE Taha, Islam M Saadeldin, AA Swelum (2019) Effects of stock, sex, and muscle type on carcass characteristics and meat quality attributes of parent broiler breeders and broiler chickens. **Poultry Science** 98:6586–6592 <https://doi.org/10.3382/ps/pez464>
68. Hany F Ellakany, Ahmed R Elbestawy, Abd El-Hamid, S Hatem, Rasha E Zedan, Ahmed R Gado, Ayman E Taha, Mohamed A Soliman, Mohamed E Abd El-Hack, Ayman A Swelum, Islam M Saadeldin, Hani Ba-Awadh,

- Elsayed OS Hussein (2019) Role of Pigeons in the Transmission of Avian Avulavirus (Newcastle Disease-Genotype VIIId) to Chickens. **Animals** 9(6): 338. <https://doi.org/10.3390/ani9060338>
69. EA Ashour, ME Abd El-Hack, M. Alagawany, AA Swelum, AO Osman, **IM Saadeldin**, Abdel-Hamid, EO Hussein (2019) Use of Whey Protein Concentrates in Broiler Diets. **The Journal of Applied Poultry Research**, pfz070, <https://doi.org/10.3382/japr/pfz070>
 70. M Arif, Z Hayat, ME Abd El-Hack, M Saeed, HM Imran, AN Alowaimer, **IM Saadeldin**, AE Taha, AA Swelum (2019) Impacts of supplementing broiler diets with a powder mixture of black cumin, Moringa and chicory seeds. **South African Journal of Animal Science** 49: 564-572.
 71. EA Ashour, ME Abd El-Hack, MM El-Hindawy, AI Attia, AO Osman, AA Swelum, AN Alowaimer, **IM Saadeldin**, V Laudadio (2019) Impacts of dietary inclusion of dried brewers' grains on growth, carcass traits, meat quality, nutrient digestibility and blood biochemical indices of broilers. **South African Journal of Animal Science** 49: 573-584.
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 81. Abdelnour S, Alagawany M, Abd El-Hack ME, Sheiha AM, **Saadeldin IM**, Swelum AA. (2018) Growth, Carcass Traits, Blood Hematology, Serum Metabolites, Immunity, and Oxidative Indices of Growing Rabbits Fed Diets Supplemented with Red or Black Pepper Oils. **Animals** 8, 168; doi:10.3390/ani8100168
 82. Mervat A. Abdel-Latif, Mohamed E. Abd El-Hack, Ayman A. Swelum, Islam M. Saadeldin, Ahmed R. Elbestawy,

- Ramadan S. Shewita, Hani A. Ba-Awadh, Abdullah N. Alowaimier and Hatem S. Abd El-Hamid, 2018. Single and Combined Effects of *Clostridium butyricum* and *Saccharomyces cerevisiae* on Growth Indices, Intestinal Health, and Immunity of Broilers. **Animals** 2018, 8(10), 184; <https://doi.org/10.3390/ani8100184>
83. M F A Farghly, M E Abd El-Hack, M Alagawany, **IM Saadeldin**, A A Swelum. (2018) Wet feed and cold water as heat stress modulators in growing Muscovy ducklings. **Poultry Science**. 97: 1588–1594. <https://doi.org/10.3382/ps/pey006> (IF: 2.216)
 84. M F A Farghly, M E Abd El-Hack, M Alagawany, **IM Saadeldin**, A A Swelum. (2018) Ameliorating deleterious effects of heat stress on growing Muscovy ducklings using feed withdrawal and cold water. **Poultry Science**. pey396, <https://doi.org/10.3382/ps/pey396>
 85. Asmaa T. Y. Kishawy, Shimaa A. Amer, Ali Osman, Shafika A. M. Elsayed, Mohamed E. Abd El-Hack, Ayman A. Swelum, Hani Ba-Awadh, **Islam M. Saadeldin** (2018) Impacts of supplementing growing rabbit diets with whey powder and citric acid on growth performance, nutrient digestibility, meat and bone analysis, and gut health. **AMB Express**. 8:86. <https://doi.org/10.1186/s13568-018-0617-0> (IF: 1.825)
 86. M Alagawany, M E Abd El-Hack, M R Farag, S S Elnesr, M S El-Kholy, **I M Saadeldin**, A A Swelum (2018) Dietary supplementation of *Yucca schidigera* extract enhances productive and reproductive performances, blood profile, immune function, and antioxidant status in laying Japanese quails exposed to lead in the diet. **Poultry Science** pey186, <https://doi.org/10.3382/ps/pey186> (IF: 2.216)
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 88. H F Ellakany A R Elbestawy H S Abd-Elhamid A R Gado A A Nassar M A Abdel-Latif I I Abo Ghanima M E Abd El-Hack A A Swelum I M Saadeldin H A Ba-Awadh A N Alowaimier (2018) Effect of experimental *Ornithobacterium rhinotracheale* infection along with live infectious bronchitis vaccination in broiler chickens. **Poultry Science**, pey324, <https://doi.org/10.3382/ps/pey324> (IF: 2.216)
 89. Hany F Ellakany, Ahmed R Gado, Ahmed R Elbestawy, Hatem S Abd El-Hamid, Hafez M Hafez, Mohamed E Abd El-Hack, Ayman A Swelum, Abdullah Al-Owaimier, **Islam M Saadeldin**. (2018) Interaction between avian influenza subtype H9N2 and Newcastle disease virus vaccine strain (LaSota) in chickens. **BMC Veterinary Research** 14 (1), 358
 90. AE Taha, AS El-Tahawy, ME Abd El-Hack, AA Swelum, **IM Saadeldin** (2018) Impacts of various storage periods on egg quality, hatchability, post-hatching performance, and economic benefit analysis of two breeds of quail. **Poultry Science**, pey468, <https://doi.org/10.3382/ps/pey468>
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Ph.D.: [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.

Master of Veterinary Sciences: 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.

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 trophoctoderm karyoplast by nuclear transfer. 8th ERD day of Seoul national University, Seoul, Korea, November 5th, 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. 8th ERD day of Seoul national University, Seoul, Korea, November 5th, 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 2nd 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 Trophoctoderm 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 11th 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 3rd 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 22nd World Congress of Controversies in Obstetrics, Gynecology and Infertility (COGI22), 17-19th September, 2015. Budapest, Hungary.
23. Kim GA*, Jin JX, Tawechaipaisankul A, Oh HJ, Ahn C, **Saadeldin IM**, Lee BC. Oxidative stress of liver in transgenic piglets with multiple copies of transgenes soluble human tumour necrosis factor receptor type ig-fc and human heme oxygenase-1. **Proceedings of the Annual Conference of the International Embryo Technology Society, Austin, Texas, 14–17 January 2017** (Cited: *Reproduction, Fertility and Development*, 29(1) 121-121 <http://dx.doi.org/10.1071/RDv29n1Ab27>).
24. Swelum A, **Saadeldin I**, Ba-Awad H*, Alowaimier A. Effect of melatonin treatment on libido and endocrine function of dromedary camel bulls out of the breeding season. **Proceedings of the Annual Conference**

of the International Embryo Technology Society, Austin, Texas, 14–17 January 2017 (Cited: *Reproduction, Fertility and Development*, 29(1) 163-164 <http://dx.doi.org/10.1071/RDv29n1Ab110>).

25. Majdi Bahadi*, Ayman Swelum, **Islam Saadeldin**, Abdullah Alowaimier. Effect of adding seminal plasma of camel and bucks on the chilling preservation of ram semen. **Proceedings of the 32nd meeting of Saudi Biological Society, Umm-al-Qura University, Mekkah, Saudi Arabia, 18-20 April 2017.**

26. **Saadeldin IM**, Swelum AA, ElsafadiM, Moumen A, Alzahrani F*, Mahmood A, Alfayez M, Alowaimier A. Expression of pluripotency genes in embryonic stem-like cells and trophoblast of camels. **The Center for iPS Cell Research and Application (CiRA) International Symposium, November 6-8, 2017, Kyoto University, Japan.**

27. **Saadeldin IM**, Swelum AA, ElsafadiM, Mahmood A, Alfayez M, Alowaimier A. Cumulus cells of camel (*Camelus dromedarius*) antral follicles are multipotent stem cells. The Fourth Stem Cell International Conference, October 24-25, 2018, King Abdullah International Medical Research Center, Riyadh, KSA.

28. Alzahrani F, **Saadeldin IM***, Alkarim S. Effect of MSC-derived exosomes on DEN-induced liver injury in rats. (**Oral Presentation**). The Fourth Stem Cell International Conference, October 24-25, 2018, King Abdullah International Medical Research Center, Riyadh, KSA.

29. Swelum A. Saadeldin IM et al. Shortened photoperiod in non-breeding season can improve reproductive parameters in camel bulls. **ISOCARD 2018**, Morocco, La'Ione.

30. Swelum A. Saadeldin IM et al. Chronobiotic effect of exogenous melatonin in bull and she-camels. **ISOCARD 2018**, Morocco, La'Ione.

Ad hoc reviewer

(Publons ID: <https://publons.com/author/1281062/>) REVIEWED more than 200 manuscripts 2011-2020:

-  (40) Journal of Veterinary Science **WOS**
-  (29) Environmental Science and Pollution Research **WOS**
-  (8) Frontiers in Pharmacology **WOS**
-  (7) Animals **WOS**
-  (6) Revista Brasileira de Zootecnia **WOS**
-  (5) Science of the Total Environment **WOS**
-  (5) The Open Stem Cell Journal
-  (4) Journal of Cellular Physiology **WOS**
-  (4) Journal of Fertilization: In Vitro-IVF-Worldwide, Reproductive Medicine, Genetics & Stem Cell Biology
-  (4) Reproduction in Domestic Animals **WOS**
-  (4) Scientific Reports **WOS**
-  (4) Theriogenology **WOS**
-  (3) Journal of Animal Physiology and Animal Nutrition **WOS**
-  (3) Journal of Immunoassay and Immunochemistry
-  (3) Molecular Reproduction & Development **WOS**
-  (3) Poultry Science **WOS**
-  (3) Reproductive Biology **WOS**
-  (2) Advances in Dairy Research
-  (2) Animal Reproduction Science **WOS**
-  (2) Annals of Animal Science **WOS**
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-  (2) Biomedicine & Pharmacotherapy **WOS**
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-  (2) Microorganisms **WOS**
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-  (2) Reproductive Medicine International
-  (2) Toxicology Research **WOS**
-  (2) Veterinary Medicine and Science **WOS**
-  (2) Zagazig Veterinary Journal (Egypt)
-  (2) Zygote **WOS**
-  (1) Advances in Animal and Veterinary Sciences
-  (1) Advances in Life Sciences
-  (1) American Journal of Medicine and Medical Sciences
-  (1) Animal Biotechnology **WOS**
-  (1) Animal Genetics **WOS**
-  (1) Animal Models and Experimental Medicine
-  (1) Animal Reproduction **WOS**
-  (1) Arab Journal of Basic and Applied Sciences
-  (1) Arabian Journal of Medical Sciences
-  (1) Artificial Cells, Nanomedicine, and Biotechnology **WOS**
-  (1) Asian Journal of Fisheries and Aquatic Research
-  (1) BMC Genomics **WOS**
-  (1) Biological Trace Element Research **WOS**
-  (1) Brazilian Archives of Biology and Technology **WOS**
-  (1) Cell & Developmental Biology
-  (1) Cellular Reprogramming **WOS**
-  (1) Drug and Chemical Toxicology **WOS**
-  (1) Drug, Healthcare and Patient Safety **WOS**
-  (1) European Journal of Obstetrics & Gynecology and Reproductive Biology **WOS**
-  (1) Future Science OA **WOS**
-  (1) Imaging in Medicine
-  (1) International Journal of Anatomy and Physiology
-  (1) International Journal of Nanomedicine **WOS**
-  (1) International Journal of Peptide Research and Therapeutics **WOS**

-  (1) International Journal of Research and Method in Education **WOS**
-  (1) Journal of Aquatic Food Product Technology **WOS**
-  (1) Journal of Forensic Science and Medicine
-  (1) Journal of Medical & Health Sciences
-  (1) Journal of Pineal Research **WOS**
-  (1) Journal of Toxicology and Risk Assessment
-  (1) Journal of the Saudi Society of Agricultural Sciences
-  (1) Kuwait Journal of Science **WOS**
-  (1) Middle East Journal of Applied Sciences
-  (1) OncoTargets and Therapy **WOS**
-  (1) Open Veterinary Journal **WOS**
-  (1) Oxidative Medicine and Cellular Longevity **WOS**
-  (1) PeerJ **WOS**
-  (1) Research and Reports in Biology **WOS**
-  (1) Systems Biology in Reproductive Medicine **WOS**

PROJECTS

- 1- PI, research group RG-1438-018 “Reproduction in Farm Animals”, funded by King Saud University.
- 2- “Molecular selection of reproductive traits for Improvement of Egyptian buffalo productivity” Funded by STDF, Egypt; 2012-2016.
- 3- Researcher, research group RG-1438-066 “Therigenology in Farm Animals”, funded by King Saud University.
- 4- ParOwn research cycle 0607, from the Minster of Higher Education and Scientific Research (MHESR), Egypt.

ACADEMIC SUPERVISION AND THESIS DEFENSE

Supervision:

- 1- Mahmoud Gamel (2018): M.Sc., graduated.
- 2- Salah Farag: Ph.D., currently working.
- 3- Tukur Hammed: M.Sc., currently working.
- 4- Zafer Alhakmi: Ph.D., currently working.

Defense Committee:

- 1- Hani Ba-Awadh: M.Sc. (2018)
- 2- Musaad Alanzi: M.Sc. (2018)
- 2- Madgi Ba-Hadi: M.Sc. (2017)

GRANTS & SCHOLARSHIPS

- **2014:** Brain Korea for 21st century (BK21-PLUS) Post-Doctoral fellowship for 1 year (June 2014), Seoul National University, Korea.
- **2013:** Brain Korea for 21st century (BK21-PLUS) Post-Doctoral fellowship for 6 months (November 2013-May

2014), Seoul National University, Korea.

- **2013:** Post-Doctoral fellowship for 6 months (May-November, 2013), Seoul National University, Korea.
- **2009:** Brain Korea for 21st century (BK21) grant, 3-year promotion for SNU veterinary PhD students, SNU, Korea.
- **2008:** Merit Scholarship Programme for High Technology (MSP) year/2007-2008, from the Islamic Development Bank (IDB), Jeddah, Saudi Arabia. To obtain Ph.D. from Seoul National University (SNU), Seoul, Korea.
- **2007:** ParOwn research cycle 0607, from the Minister of Higher Education and Scientific Research (MHESR), Egypt, entitled "*training on Physiology, Pathology and Proteomics of Aquaporins*" Principal researcher at Institute of Nephrology, Graduate School of Medical and Dental Sciences, Niigata University, Japan (Supervised by Prof. Tadashi Yamamoto).

AWARDS & HONORS

- 2019: Asian Universities Alliance (AUA) scholars' award.
- 2019: Top 1% Reviewer in the Global Peer Review Awards, Publons, Web of Science.
- 2014: Misr Elkheir foundation award for international publishing in high impact journals.
- 2012 and 2014: "Who's who in the world, 2013 and 2015", respectively.
- 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019: Zagazig University award for international publishing "The excellence date of ZU".
- 2013: One from the "2000 outstanding intellectuals of the 21st century, 2013" International Biographical centre, the Great Britain.
- 2013: One from the "Leading Educators of the World, 2013" International Biographical centre, the Great Britain.
- 2004: Honor of Veterinary Syndicate, Zagazig, Egypt, for graduates' scientific excellence.
- 2001 and 2002: Awards of Faculty of Veterinary Medicine, Zagazig University, for the undergraduates' scientific excellence.

TEACHING EXPERIENCE

- Teaching the theoretical courses for Animal Production subjects (ANPR 106, 456, 534) for bachelor and post-graduate students (Master) at King Saud University.
- Teaching the theoretical courses for Physiology subject for the first year students including; Cell Physiology, Central Nervous system, Autonomic Nervous System, Muscle Physiology, Respiration Physiology, Blood and Cardiovascular system.
- Teaching the theoretical courses for Physiology subject for the second year students including; Urinary system, Digestive system, Endocrinology, Reproductive system.
- Teaching the theoretical courses for Physiology subject for post-graduate students (Diploma, Master and PhD graduates) including; Acid-Base balance, Body fluids, Membrane Physiology and Cell Signaling.
- Teaching the practical courses for both undergraduates and postgraduates.

ACQUIRED RESEARCH SKILLS AND EXPERIENCE

- Proteomics and Bioinformatics.
- Embryonic and adult stem cell-related techniques; culture, isolation and microinjection.
- Improving Embryo production and Assisted Reproductive Biotechnology (*in vitro* maturation (IVM) of oocytes, parthenogenesis, Somatic Cell Nuclear Transfer (Animal cloning), Transgenesis, Gene Regulation, In Vitro Fertilization, Embryo Culture Techniques, Embryo Biotechnology, Implantation, Reproduction Biology, Semen Evaluation, Hormonal Analysis, Assisted hatching, Reproductive Endocrinology, Micromanipulation and Cryopreservation.
- Molecular biological techniques (Genomic DNA and total RNA isolation, RT-PCR, real-time RT-PCR, cell

- culture, gene cloning, bacterial transformation, cell transfection,).
- ELISA, Immunohistochemistry and Immunofluorescent techniques.
- Karyotyping and cytogenetic analysis.
- Gynaecological and Andrological procedures (estrous detection, estrous synchronization, semen analysis, Reproductive endocrinology reports ...).
- Hematology reports (CBC, Hemostasis assay, immunity ...).

EDITORIAL BOARD MEMBER

- Editorial Board member at Journal of Animal Reproduction and Biotechnology (ISSN: 2671-4639) Section Editor of Reproductive Clinics. http://www.e-jarb.org/content/about/editorial_board.html
- [Editorial Board member](#) at Journal of Applied Cell Biology (ISSN: 2320-1991)
- [Editorial Board member](#) at Journal Cloning & Transgenesis (ISSN: 2168-9849).
- [Editorial Board member](#) at Reproductive Medicine International (ISSN: 2643-4555).
- [Associate Editorial Member](#) at The Open Stem Cell Journal (ISSN: 1876-8938).
- [Editorial Board member](#) at World Journal of Veterinary Science (ISSN: 2310-0796)

INVITED TALKS

- Principles and applications of real-time PCR, Kafr Elsheikh University, Egypt. October, **2012**.
- International publication in peer-reviewed journals, Zagazig Veterinary Syndicate, Zagazig, Egypt, March **2015**
- Transgenesis and Gene transfer to the Tilapia eggs, Alexandria University, Egypt, August **2015**
- Animal genomics and embryo technology, National Research Center, Giza, Egypt, December **2015**
- Recent advances in transgenesis, College of Medicine, Zagazig University, Egypt, April **2016**.
- Oocyte activation and rescue ICSI + Follicular fluid cells as source for stem cells in IVF clinics. The first international conference on Infertility and Reproduction, Arar, Saudi Arabia, 27-29 April **2019**
- Novel methods for assisted reproductive techniques and stem cell derivation from animals, College of Veterinary Medicine, Seoul National University, Korea, July **2019**.
- Thermotolerance and plasticity of camel cells, Alfaisal University, Riyadh, Saudi Arabia, November **2019**.

TRAINING COURSES and WORKSHOPS

- Professional Management of Projects (PMP) @KSU DSR (2017).
- Project writing @KSU DSR (2018).
- Scientific Writing and Endnote @ZU FLDC (2018).
- Strategic Planning @ZU FLDC (2018).
- Faculty leaderships and staff training courses (from 2006-2012); (Interactive communication skills, Effective presentation, University Laws, Preparation of University teachers, Macro teaching, Micro teaching, Ethics of scientific research, management of meetings and conferences, the international publishing and management of the time), Faculty Leadership and Development Center (FLDC), Zagazig University.
- Computer and Information technology (IT) training courses; at Department of Computer Science, Faculty of Science, Zagazig University.
- Quality assurance training courses; at the Quality assurance Unit, Faculty of Veterinary Medicine, Zagazig University.
- Environmental and Laboratory Safety, College of Social Sciences, Seoul National University, August 25-26, 2009.
- Implementation Principles of Saemaulundong for Rural Development and International Cooperation Projects, Saemaulundong Central Training Institute, Kyonggi-do, Korea, November 28-29, 2009.
- Joint workshop (Encapsulation for xeno-transplantation) between Pohang University of Science and Technology (POSTECH) and College of Veterinary Medicine, Seoul National University, June 3-4, 2010, HanWha resort, Busan, Korea.

- The 8th ERD day of Seoul national University, Seoul, Korea, November 5th, 2010. P94.
- Workshop (Adipose mesenchymal-derived stem cells: horizons in treatment of female infertility), BK21 program, College of Veterinary Medicine, Seoul National University, August 3rd, 2010, Seoul, Korea.
- Workshop (Solid freeform fabrication “SFF” technology and its bio-applications; Xenotransplantation), BK21 program, College of Veterinary Medicine, Seoul National University, September 17th, 2010. Seoul, Korea.
- The proceedings of 37th annual conference of IETS, Florida, USA, January 8-12, 2011.
- **The 2nd 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.
- The 44th SSR Annual Meeting, July 31 - August 4, 2011, in Portland, Oregon, USA.
- The 10th transgenic technology (TT2011) meeting, October 24-26, 2011, in TradeWinds Island Grand Resort, St Pete Beach, Florida, USA.
- The proceedings of the 38th annual conference of IETS, Arizona, USA, 2012.
- The 11th 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.
- **The 3rd 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.
- The 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).
- The 45th SSR Annual Meeting, August 12-15, 2012, in The Pennsylvania State University, State College, Pennsylvania, USA.
- The proceedings of the 39th annual conference of IETS, January 2013, Hannover, Germany,
- The proceeding of the Third International Meeting of ISEV 2014. Rotterdam, The Netherlands, April 30th – May 3rd, 2014.
- The 47th SSR Annual Meeting, July 19-23, 2014, Grand Rapids, Michigan, USA.
- Asia Life Sciences 2014 The Inaugural Asian Conference on the Life Sciences and Sustainability August 27th to 29th, 2014 KKR Hotel Hiroshima, Japan
- The Fourth Stem Cell International Conference, October 24-25, 2018, King Abdullah International Medical Research Center, Riyadh, KSA.
- ISOCARD 2018, Morocco, La'Ione. 12-14 November, 2018.
- The 8th-international-conference-on-water-resources-and-arid-environments. KSU, KSA. 22-24th Jan. 2019.
- The first international conference on Infertility and Reproduction, Arar, Saudi Arabia, 27-29 April **2019** (Oral speaker)

REFEREES

- 1- Byeong Chun Lee: Professor and Head, Department of Theriogenology/Biotechnology, College of Veterinary Medicine, Seoul National University, South Korea, E.mail; bclee@snu.ac.kr
- 2- Goo Jang: Professor, Department of Theriogenology/Biotechnology, College of Veterinary Medicine, Seoul National University, South Korea, E.mail; snujang@snu.ac.kr
- 3- Tadashi Yamamoto, Director and Professor, Department of Structural Pathology, Institute of Nephrology, Graduate School of Medical and Dental sciences, Niigata University, Japan, E-mail; tdsymmt@med.niigata-u.ac.jp
- 4- Adel Elbadry, Emeritus Professor of Physiology, Faculty of Veterinary Medicine, Zagazig University, Egypt. E-mail; adelaelbadry@gmail.com

5- Fadel M. Ali, Emeritus Professor of Medical Biophysics, Faculty of Science, Cairo University, Egypt. E.mail;
fadel_mali@yahoo.com