

COMPLETE LIST OF PUBLICATION

Journal Articles

2022

1. Rahman MS, Pang WK, Amjad S, Ryu DY, Adegoke EO, Park YJ, Pang MG. Hepatic consequences of a mixture of endocrine-disrupting chemicals in male mice. *J Hazard Mater.* 2022, 15;436:129236. doi: 10.1016/j.jhazmat.2022.129236
2. Ryu DY, Pang WK, Adegoke EO, Rahman MS, Park YJ, Pang MG. Abnormal histone replacement following BPA exposure affects spermatogenesis and fertility sequentially. *Environ Int.* 2022, 170:107617. doi: 10.1016/j.envint.2022.107617.
3. Park YJ, Rahman MS, Pang WK, Ryu DY, Jung MJ, Amjad S, Kim JM, Pang MG. Systematic multi-omics reveals the overactivation of T cell receptor signaling in immune system following bisphenol A exposure. *Environ Pollut.* 2022, 308:119590. doi: 10.1016/j.envpol.2022.119590.
4. Pang WK, Amjad S, Ryu DY, Adegoke EO, Rahman MS, Park YJ, Pang MG. Establishment of a male fertility prediction model with sperm RNA markers in pigs as a translational animal model. *J Anim Sci Biotechnol.* 2022, 13(1):84. doi: 10.1186/s40104-022-00729-9.
5. Pang WK, Son JH, Ryu DY, Rahman MS, Park YJ, Pang MG. Heat shock protein family D member 1 in boar spermatozoa is strongly related to the litter size of inseminated sows. *J Anim Sci Biotechnol.* 2022, 13(1):42. doi: 10.1186/s40104-022-00689-0.
6. Adegoke EO, Rahman MS, Amjad S, Pang WK, Ryu DY, Park YJ, Pang MG. Bisphenol A damages testicular junctional proteins transgenerationally in mice. *Environ Pollut.* 2022, 302:119067. doi: 10.1016/j.envpol.2022.119067.
7. Park YJ, Lee BM, Pang WK, Ryu DY, Rahman MS, Pang MG. Low Sperm Motility Is Determined by Abnormal Protein Modification during Epididymal Maturation. *World J Mens Health.* 2022, 40:e34. doi: 10.5534/wjmh.210180.

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8. Rahman MS, Adegoke EO, Pang MG. Drivers of owning more BPA. *J Hazard Mater.* 2021,417:126076. doi: 10.1016/j.jhazmat.2021.126076.
9. Rahman MS, Pang WK, Ryu DY, Park YJ, Ryu BY, Pang MG. Multigenerational impacts of gestational bisphenol A exposure on the sperm function and fertility of male mice. *J Hazard Mater.* 2021,416:125791. doi: 10.1016/j.jhazmat.2021.125791.
10. Rahman MS, Hossain KS, Das S, Kundu S, Adegoke EO, Rahman MA, Hannan MA, Uddin MJ, Pang MG. Role of insulin in health and disease: An Update, *Int. J. Mol. Sci.* 2021, 22, 3939. doi: 10.3390/ijms22126403.

11. Adegoke EO, Rahman MS, Park YJ, Kim YJ, Pang MG. Endocrine-Disrupting Chemicals and Infectious Diseases: From Endocrine Disruption to Immunosuppression. *Int J Mol Sci.* 2021;22(8):3939. doi: 10.3390/ijms22083939. Co-first author.
12. Amjad S, Rahman MS, Pang WK, Ryu DY, Adegoke EO, Park YJ, Pang MG. Effects of phthalates on the functions and fertility of mouse spermatozoa. *Toxicology.* 2021;454:152746. doi: 10.1016/j.tox.2021.152746.
13. Ryu DY, Pang WK, Rahman MS, Park YJ, Pang MG. Peroxiredoxin 4 directly affects the male fertility outcome in porcine. *Theriogenology.* 2021;171:85-93. doi: 10.1016/j.theriogenology.2021.05.020.
14. Park YJ, Pang WK, Ryu DY, Adegoke EO, Rahman MS, Pang MG. Bisphenol A exposure increases epididymal susceptibility to infection in mice. *Ecotoxicol Environ Saf.* 2021;208:111476. doi: 10.1016/j.ecoenv.2020.111476.
15. Park YJ, Kwon KJ, Song WH, Pang WK, Ryu DY, Rahman MS, Pang MG. New technique of sex preselection for increasing female ratio in boar sperm model. *Reprod Domest Anim.* 2021;56(2):333-341. doi: 10.1111/rda.13870.
16. Park YJ, Shin DH, Pang WK, Ryu DY, Rahman MS, Adegoke EO, Pang MG. Short-term storage of semen samples in acidic extender increases the proportion of females in pigs. *BMC Vet Res.* 2021 Nov 26;17(1):362. doi: 10.1186/s12917-021-03078-3.
17. Hannan MA, Rahman MA, Sohag AAM, Uddin MJ, Dash R, Sikder MH, Rahman MS, Timalisina B, Munni YA, Sarker PP, Alam M, Mohibullah M, Haque MN, Jahan I, Hossain MT, Afrin T, Rahman MM, Tahjib-Ul-Arif M, Mitra S, et al. Black Cumin (*Nigella sativa* L.): A Comprehensive Review on Phytochemistry, Health Benefits, Molecular Pharmacology, and Safety. *Nutrients.* 2021;13(6):1784. doi: 10.3390/nu13061784.
18. Rahman MA, Hannan MA, Uddin MJ, Rahman MS, Rashid MM, Kim B. Exposure to Environmental Arsenic and Emerging Risk of Alzheimer's Disease: Perspective Mechanisms, Management Strategy, and Future Directions. *Toxics.* 2021, 9, 188. doi: 10.3390/toxics9080188.

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19. Rahman MS, Pang WK, Ryu DY, Park YJ, Pang MG. Multigenerational and transgenerational impact of paternal bisphenol A exposure on male fertility in a mouse model. *Hum Reprod.* 2020;35(8):1740-1752. doi: 10.1093/humrep/deaa139.
20. Rahman MS, Pang MG. New Biological Insights on X and Y Chromosome-Bearing Spermatozoa. *Front Cell Dev Biol.* 2020;7:388. doi: 10.3389/fcell.2019.00388.
21. Amjad S, Rahman MS, Pang MG. Role of Antioxidants in Alleviating Bisphenol A Toxicity. *Biomolecules.* 2020;10(8):E1105. doi: 10.3390/biom10081105. Co-first author.

22. Park YJ, Rahman MS, Pang WK, Ryu DY, Kim B, Pang MG. Bisphenol A affects the maturation and fertilization competence of spermatozoa. *Ecotoxicol Environ Saf.* 2020,196:110512. doi: 10.1016/j.ecoenv.2020.110512.
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24. Rahman MA, Rahman MS, Rahman MH, Rasheduzzaman M, Mamun-Or-Rashid A, Uddin MJ, Rahman MR, Hwang H, Pang MG, Rhim H. Modulatory Effects of Autophagy on APP Processing as a Potential Treatment Target for Alzheimer's Disease. *Biomedicines*, 2020,9,5. doi: 10.3390/biomedicines9010005.
25. Adegoke EO, Rahman MS, Pang MG. Bisphenols threaten male reproductive health via testicular cells. *Front. Endocrinol.* 2020,11,624. doi: 10.3389/fendo.2020.00624.
26. Rahman MA, Saha SK, Rahman MS, Uddin MJ, Uddin MS, Pang MG, Rhim H, Cho SG. Molecular Insights Into Therapeutic Potential of Autophagy Modulation by Natural Products for Cancer Stem Cells. *Front Cell Dev Biol.* 2020, 8:283. doi: 10.3389/fcell.2020.00283.
27. Hannan MA, Rahman MA, Rahman MS, Sohag AAM, Dash R, Hossain KS, Farjana M, Uddin MJ. Intermittent fasting, a possible priming tool for host defense against SARS-CoV-2 infection: Crosstalk among calorie restriction, autophagy and immune response. *Immunol Lett.* 2020, 226:38-45. doi: 10.1016/j.imlet.2020.07.001.
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31. Rahman MS, Kang KH, Arifuzzaman S, Pang WK, Ryu DY, Song WH, Park YJ, Pang MG. Effect of antioxidants on BPA-induced stress on sperm function in a mouse model. *Sci Rep.* 2019, 9(1):10584. doi: 10.1038/s41598-019-47158-9.
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35. Ryu DY, Song WH, Pang WK, Yoon SJ, Rahman MS, Pang MG. Freezability biomarkers in bull epididymal spermatozoa. *Sci Rep.* 2019, 9(1):12797. doi: 10.1038/s41598-019-49378-5.
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38. Kwon WS, Kim YJ, Ryu DY, Kwon KJ, Song WH, Rahman MS, Pang MG. Fms-like tyrosine kinase 3 is a key factor of male fertility. *Theriogenology.* 2019, 126:145-152. doi: 10.1016/j.theriogenology.2018.12.019.

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39. Rahman MS, Kwon WS, Ryu DY, Khatun A, Karmakar PC, Ryu BY, Pang MG. Functional and Proteomic Alterations of F1 Capacitated Spermatozoa of Adult Mice Following Gestational Exposure to Bisphenol A. *J Proteome Res.* 2018, 17(1):524-535. doi: 10.1021/acs.jproteome.7b00668.
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Books

1. Rahman MS, Shamsuddin M. Progesterone ELISA improve the understanding of Buffalo reproduction: milk progesterone ELISA, a reliable tool for monitoring ovarian cyclicity, LAP LAMBERT Academic Publishing, Germany. Corresponding author.
2. Kamal MM, Rahman MS, Shohag AS, Postpartum anestrus in water buffaloes: Bangladesh perspective: anestrus in Buffaloes, LAP LAMBERT Academic Publishing, Germany.

Book Chapters

1. Rahman MA, Rahman MS, Uddin MJ, Mamun-Or-Rashid ANM, Rahman MR, Pang MG, Rhim H. Proteostasis and neurodegeneration: perspectives in the pathogenesis of molecular and cellular mechanisms. In quality control of cellular protein in neurodegenerative disorders. 2020, IGI Global, Hershey, PA, USA, 154-178. doi: 10.4018/978-1-7998-1317-0.ch006