

Curriculum Vitae

Name: Prof Dr. Emad A Ahmed

Professor of Molecular Physiology

Current Address: Biological Science department, College of Science, King Faisal University, Saudi Arabia

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Scholarships grants and prizes:

- Oct 2003** Ten months-scholarship provided by Norwegian Research Council, Tromso University, Norway.
- April 2005** PhD scholarship supported by the Egyptian government to The Netherlands.
- Sept 2008** Travel grant to the 36th annual meeting of European Radiation Research Society, to Tours, France, from the meeting of Dutch Society for Radiobiology, NVRB
- April 2010** Postdoctoral fellowship at stem cell center, Lund University, Sweden.
- July 2010** The applicant research grant proposal to the German Alexander von Humboldt foundation (AvH) was approved and on October 2010 he started postdoctoral fellowship (**Georg Forster Research Fellowship**).
- March 2013** Grant from the Egyptian STDF (project nr 4833) about "DNA double strands breaks repair at chromosomes" supported by the Egyptian STDF
- August 2013** Postdoctoral research grant from department of Molecular Biology and Biotechnology, University of Sheffield, United Kingdom.
- May 2017** The Egyptian state encouragement award (From The Egyptian minister of Higher education)
- August 2017** Medal of Excellence from the first class, signed by the Egyptian president in recognition of excellence

Work experiences:

- 1. From September 2019 till present, Professor, laboratory of Molecular Physiology, Zoology Department (teaching and doing research), Faculty of Science, Assiut University Egypt.*

2. From May 2018 till present, Associate Prof in Biological Sciences Department King Faisal University, KSA.
3. From July 2016 till present, Associate Prof, laboratory of Molecular Physiology, Zoology Department (teaching and doing research), Faculty of Science, Assiut University Egypt.
4. From August 2013 till July 2016, Research Associate in Department of Molecular Biology and Biotechnology, University of Sheffield, United Kingdom.
2. From October 2012 until August 2013, Lecturer postdoc. At Zoology department (teaching and doing research), Faculty of Science, Assiut University Egypt.
3. From October 2010 until October 2012, Postdoctoral fellow of Alexander von Humboldt foundation, in institute of Radiobiologie der Bundeswehr, affiliated to the University of ULM, Munich Germany).
4. From April, 2010 until October 2010, Postdoctoral fellowship at stem cell center, Lund University, Sweden.
5. From May 2009 until April 2010, Lecturer postdoc. at Zoology department (teaching and doing research), Faculty of Science, Assiut University Egypt.
6. From October 2003 until July 2004, Research student at Faculty of medical Biology, Tromso University, Norway.
5. From April 2001 till October 2003, Assistant lecturer (teaching and doing research) at Zoology department, Faculty of Science, Assiut University-Egypt.
7. From January 1997 until March 2001, Demonstrator (teaching and doing research) at Zoology department, Faculty of Science, Assiut University, Egypt.

International activities and conferences:

- Participated in more than 25 international conferences (Invited chairperson or oral talks and posters)
- Membership of Dutch Society of Radiation Biology.
- Membership of International Network for Young Researchers in Male Fertility.
- Reviewer for more than 30 journals including; journal of Cancer chemotherapy, Mutation research, Food and Chemical Toxicology, Life Sciences, journal of cell Science, International Journal of Molecular Sciences and other journals.
- Evaluated applications for fund for the research several research centers.
- Supervised 8 Master students in Germany, Sweden, Egypt and Saudi Arabia.

Publications of Emad A Ahmed

Book chapter,

1: [EA Ahmed](#), DG de Rooij. Staging of mouse seminiferous tubule crosssections. Meiosis: Volume 2, Cytological Methods, 263277, 2009, Humana press USA

Articles:

- [Ahmed EA](#), Ibrahim HM, Khalil HE Pinocembrin Reduces Arthritic Symptoms in Mouse Model via Targeting Sox4 Signaling Molecules. *J Med Food*. 2021 Mar;24(3):282-291. doi: 10.1089/jmf.2020.4862.
- Ibrahim HI, Ismail MB, Ammar RB, [Ahmed E](#). Thidiazuron suppresses breast cancer progression via targeting miR-132 and miR-202-5p/PTEN axis mediated dysregulation of PI3K/AKT signaling pathway. *Biochem Cell Biol*. 2020 Oct 24. doi: 10.1139/bcb-2020-0377.
- [Ahmed EA](#), Alzahrani AM, Scherthan H. Parp1-Dependent DNA Double-Strand Break Repair in Irradiated Late Pachytene Spermatocytes. *DNA Cell Biol*. 2021 Feb;40(2):209-218. doi: 10.1089/dna.2020.5727. Epub 2020 Dec 18.
- Hanieh H, [Ahmed EA](#), Vishnubalaji R, Alajez NM. SOX4: Epigenetic regulation and role in tumorigenesis. *Semin Cancer Biol*. 2020 Dec;67(Pt 1):91-104. doi: 10.1016/j.semcancer. 2019.06.022. Epub 2019 Jul 2.
- S. cerevisiae* Srs2 helicase ensures normal recombination intermediate metabolism during meiosis and prevents accumulation of Rad51 aggregates.
- Hunt LJ, [Ahmed EA](#), Kaur H, Ahuja JS, Hulme L, Chou TC, Lichten M, Goldman ASH. *Chromosoma*. 2019 Sep;128(3):249-265. doi: 10.1007/s00412-019-00705-9.
- [Ahmed EA](#), Rosemann M, Scherthan H. NHEJ Contributes to the Fast Repair of Radiation-induced DNA Double-strand Breaks at Late Prophase I Telomeres. *Health Phys*. 2018 Jul;115(1):102-107.
- Hossam El-Din M. Omar, Ph.D., Abdulrahman H. Almaeen, Ph.D., Sary Kh Abd Elghaffar, Sohair M. M. Ragab, Tarek H. El-Metwally, and [Emad A. Ahmed](#). Atherosclerotic Rat Model After a High-Fat, High-Sucrose Diet: Protective Role of Quercetin, O-Coumaric, and Berberine . Analytical and quantitative cytology and histopathology, Oct 2018.
- Badr G, Sayed LH, Omar HEM, Abd El-Rahim AM, [Ahmed EA](#), Mahmoud MH. Camel Whey Protein Protects B and T Cells from Apoptosis by Suppressing Activating Transcription Factor-3 (ATF-3)-Mediated Oxidative Stress and Enhancing Phosphorylation of AKT and IκB-α in Type I Diabetic Mice. *Cell Physiol Biochem*. 2017;41(1):41-54. doi: 10.1159/000455935. Epub 2017 Jan 17. PubMed PMID: 28142150. [Impact factor 5.1](#).
- [Ahmed EA](#), Vélaz E, Rosemann M, Gilbertz KP, Scherthan H. DNA repair kinetics in SCID mice Sertoli cells and DNA-PKcs-deficient mouse embryonic fibroblasts. *Chromosoma*. 2017 Mar;126(2):287-298. doi: 10.1007/s00412-016-0590-9. Epub 2016 May 2. PubMed PMID: 27136939; PubMed Central PMCID: PMC5371645. [Impact factor 4.4](#).
- [Ahmed EA](#), Scherthan H, de Rooij DG. DNA Double Strand Break Response and Limited Repair Capacity in Mouse Elongated Spermatids. *Int J Mol Sci*. 2015 Dec 16;16(12):29923-35. doi: 10.3390/ijms161226214. PubMed PMID: 26694360; PubMed Central PMCID: PMC4691157. [Impact factor 3.2](#).
- Lamkowski A, Forcheron F, Agay D, [Ahmed EA](#), Drouet M, Meineke V, Scherthan H. DNA damage focus analysis in blood samples of minipigs reveals acute partial body irradiation. *PLoS One*. 2014 Feb 3;9(2):e87458. doi: 10.1371/journal.pone.0087458. eCollection 2014. PubMed PMID: 24498326; PubMed Central PMCID: PMC3911974. [Impact factor 2.8](#).
- [Ahmed EA](#), Sfeir A, Takai H, Scherthan H. Ku70 and non-homologous end joining protect testicular cells from DNA damage. *J Cell Sci*. 2013 Jul 15;126(Pt 14):3095-104. doi: 10.1242/jcs.122788. PubMed PMID: 23857907; PubMed Central PMCID: PMC3711201. [Impact factor 4.4](#).
- [Ahmed EA](#), Agay D, Schrock G, Drouet M, Meineke V, Scherthan H. Persistent DNA damage after high dose in vivo gamma exposure of minipig skin. *PLoS One*. 2012;7(6):e39521. doi: 10.1371/journal.pone.0039521. Epub 2012 Jun 27. PubMed PMID: 22761813; PubMed Central PMCID: PMC3384646. [Impact factor 2.8](#).
- [Ahmed EA](#), Omar HM, elghaffar SKh, Ragb SM, Nasser AY. The antioxidant activity of vitamin C, DPPD and L-cysteine against Cisplatin-induced testicular oxidative damage in rats. *Food Chem Toxicol*. 2011 May;49(5):1115-21. doi: 10.1016/j.fct.2011.02.002. Epub 2011 Feb 15. PubMed PMID: 21310208. [Impact factor 3.8](#).
- 10: Badr G, Sayed D, Alhazza IM, Elsayh KI, [Ahmed EA](#), Alwasel SH. T lymphocytes from malnourished infants are short-lived and dysfunctional cells. *Immunobiology*. 2011 Mar;216(3):309-15. doi: 10.1016/j.imbio.2010.07.007. Epub 2010 Aug 19. PubMed PMID: 20822829. [Impact factor 2.7](#).

- Badr G, Saad H, Waly H, Hassan K, Abdel-Tawab H, Alhazza IM, [Ahmed EA](#). Type I interferon (IFN-alpha/beta) rescues B-lymphocytes from apoptosis via PI3Kdelta/Akt, Rho-A, NFkappaB and Bcl-2/Bcl(XL). *Cell Immunol.* 2010;263(1):31-40. doi: 10.1016/j.cellimm.2010.02.012. Epub 2010 Feb 24. PubMed PMID: 20231019. [Impact factor 3.2.](#)
- [Ahmed EA](#), Philippens ME, Kal HB, de Rooij DG, de Boer P. Genetic probing of homologous recombination and non-homologous end joining during meiotic prophase in irradiated mouse spermatocytes. *Mutat Res.* 2010 Jun 1;688(1-2):12-8. doi: 10.1016/j.mrfmmm.2010.02.004. Epub 2010 Feb 16. PubMed PMID: 20167225. [Impact factor 2.4.](#)
- [Ahmed EA](#), de Boer P, Philippens ME, Kal HB, de Rooij DG. Parp1-XRCC1 and the repair of DNA double strand breaks in mouse round spermatids. *Mutat Res.* 2010 Jan 5;683(1-2):84-90. doi: 10.1016/j.mrfmmm.2009.10.011. PubMed PMID: 19887075. [Impact factor 2.4.](#)
- [Ahmed EA](#), Barten-van Rijbroek AD, Kal HB, Sadri-Ardekani H, Mizrak SC, van Pelt AM, de Rooij DG. Proliferative activity in vitro and DNA repair indicate that adult mouse and human Sertoli cells are not terminally differentiated, quiescent cells. *Biol Reprod.* 2009 Jun;80(6):1084-91. doi: 10.1095/biolreprod.108.071662. Epub 2009 Jan 21. PubMed PMID: 19164176. [Impact factor 3.4](#)
- [Ahmed EA](#), van der Vaart A, Barten A, Kal HB, Chen J, Lou Z, Minter-Dykhouse K, Bartkova J, Bartek J, de Boer P, de Rooij DG. Differences in DNA double strand breaks repair in male germ cell types: lessons learned from a differential expression of Mdc1 and 53BP1. *DNA Repair (Amst).* 2007 Sep 1;6(9):1243-54. Pub 2007 Mar 21. PubMed PMID: 17376750. [Impact factor 3.7.](#)
- HM Omar, [EA Ahmed](#), S AbdelGhafar, S Mohammed, AY Nasser Hepatoprotective effects of vitamin C, DPPD, and Lcysteine against cisplatin induced oxidative stress in male rats *Journal of Biology and Earth Sciences* 2 (1), 2836 2012
- TH Saleem, AM Attya, [EA Ahmed](#), SM Ragab, MAA Abdallah, HM Omar Possible protective effects of quercetin and sodium gluconate against colon cancer induction by dimethylhydrazine in mice *Asian Pac J Cancer Prev* 16, 58235828 2015. [Impact factor 2.5 \(2015\)](#)
- Muhtadi, EA Ahmed, H Scherthan, Spermatocytes Spreading during Meiotic Cell preparation is a Two Step Process *J Cytol Histol* 8 (1000450), 2017
- C Adelfalk, [EA Ahmed](#), H Scherthan, Reproductive phynotypes of Mouse Models Illuminate Human Infertility, *Journal für Reproduktionsmedizin und Endokrinologie* *Journal of Reproductive* 2011.