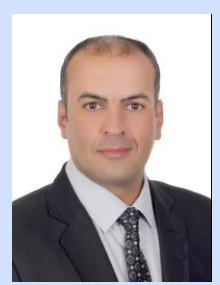


# Dr. Mohammad Alsmadi

Doctor of philosophy in molecular genetics



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**Nationality:** Jordanian

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## Experience

Sep 2004 - Oct 2008	<b>Medical laboratory technician</b> <b>Blood bank at King Hussein Medical Centre (KHMC).</b> Amman (Jordan)
Nov 2008 - Feb 2014	<b>Medical laboratory technician</b> <b>Queen Alia Heart institute (QAHI)</b> Amman (Jordan)
Mar 2014 - Aug 2023	<b>Senior clinical embryologist</b> In vitro fertilization (IVF) unit at King Hussein Medical Centre (KHMC) Amman (Jordan)
Feb 2023-July 2023	<b>Teaching biochemistry coarse</b> at Princess Aisha Bint Al Hussein College for Nursing and Health
Aug 2023- Present	<b>IVF Lab director at King Hussein Medical Centre (KHMC).</b> Amman (Jordan)

## Education

1997 - Aug 1998	<b>General Secondary Education Certincate</b> <b>Ministry of education</b> Amman (Jordan) Scientinc stream with percentage average 83.1 %
Sep 1998 - Jan 2003	<b>Bachelor degree of science</b> <b>Yarmouk University IRBID</b> (Jordan) With a major in Biological Sciences, with cumulative average 69.7 %
Sep 2016 - Jul 2018	<b>Master degree in biotechnology</b> <b>Yarmouk University IRBID</b> (Jordan) With cumulative average 90.4 %, thesis title:" The Association between Human Mitochondrial DNA Deletion in Sperm and Infertile Jordanian Men with Asthenozoospermia"
Nov 2018 - Jul 2021	<b>Doctor of philosophy in molecular genetics</b> <b>The medical faculty of Saarland University</b> Homburg, Germany With overall grade cum laude, thesis title:"Impact of Mitochondrial Genetic Variants in ND1, ND2, ND5 and ND6 Genes on Sperm Motility and Intracytoplasmic Sperm Injection (ICSI) Outcomes"

## Languages

Arabic

English

## Skills

Teamwork

Problem-Solving

## Projects

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Molecular biology and biochemistry of reproductive medicine

I am interested in studying the genetic basis of male and female infertility by using molecular techniques such as PCR and DNA sequencing, in addition to studying the effect of oxidative stress on sperm by using biochemical analysis such as measurement of protein carbonyl concentration by ELISA

## Certifications & Courses

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- (1.11.2015 - 27.12.2015): IVF Training course at Saarland University, Homburg (Germany).
- (01/11/2018 - 03/11/2018): Attended the 25th annual scientific meeting program of the Middle East fertility society (MEFS). Beirut (Lebanon).
- (3-6 July 2022) : Attended the European Society of Human Reproduction and Embryology (ESHRE) 38th Annual Meeting - ( Milan, Italy )
- (04/11/2018 - 14/11/2018): Workshop in stem cells, cancer and reproduction. Hashemite University, Zarqa (Jordan).
- (4/Nov/2014-07/Nov/2014): Attended 4th ICMM Pan Arab Regional Working Group Congress on Military Medicine (Jordan).
- (10/May/2015) : Attended First Scientific Day For Allied Health Professions (Jordan).
- (28/Jan/2016-30/Jan/2016): Attended First international medical conference of Al Zarqa new Governmental Hospital (Jordan).
- (27/July/2016-28/July/2016): Attended First International Medical Conference of Jerash Governmental Hospital.
- (07/Sep/2016-09/Sep/2016): Attended Third International Medical Conference of Al-Nadeem Governmental Hospital/Madaba (Jordan).
- (15/Nov/2016-18/Nov/2016) :Attended 7th Regional Assembly of the Pan Arab Regional Working Group of The IMM (Jordan).
- (04/Apr/2019-06/Apr/2019):Attended The 3rd International Medical Conference of the Sub-Committee of the Medical Association / (Jordan).
- (24/Apr/2019-26/Apr/2019): Attended The Eighth International Congress of The Jordanian Society for Fertility and Genetics / ( Jordan).
- (7/Oct/2020-10/Oct/2020): Attended 4th International Medical Conference of the Sub-Committee of the Medical Association - ( Jordan).
- (27/May/2021-29/May/2021): Attended The First International Civil Military Medical Conference ( Jordan).
- (23/Jun/2021-27/Jun/2021): Attended The Second International Medical of Al-Salt Conference ( Jordan).
- (08/Sep/2021-11/Sep/2021) :Attended The 5TH-International Medical Congress of the Sub-Committee of the Medical Association - ( Jordan).
- (07/Oct/2021-10/Oct/2021): Participated as a Speaker in The Second International Health Conference for the Jordan Healing and Health .Bank
- (09/Mar /2022-11/Mar/2022): Attended Pre-congress Course Genetics The Ninth International Congress of The Jordanian Society for Fertility and Genetics.
- (07/Mar /2023-10/Mar/2023 ):Participated as a Speaker at 10th International Conference of the Royal Medical Services ( Jordan).

## Publications

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- Batiha, O., Haifawi, S., **AlSmadi, M.**, Burghel, G. J., Naber, Z., Elbetieha, A. M., ... & Abdelnour, A. (2018). Molecular analysis of CAG repeatlength of the androgen receptor gene and Y chromosome microdeletions among Jordanian azoospermic infertile males. *Andrologia*, 50(4), e12979.
- Batiha, O., Alahmad, N. A., Sindiani, A., Bodoor, K., Shaaban, S., & **Al-Smadi, M.** (2019). Genetics of female infertility: Molecular study of newborn ovary homeobox gene in poor ovarian responders. *Journal of human reproductive sciences*, 12(2), 85.
- Al Zoubi, M. S., AlBatayneh, K., **Alsmadi, M.**, Rashed, M., AlTrad, B., Al Khateeb, W., ... & Batiha, O. (2020). 4,977bp human mitochondrialDNA deletion is associated with asthenozoospermic infertility in Jordan. *Andrologia*, 52(1), e13379.
- Al Zoubi, M. S., Al-Talafha, A. M., Al Sharu, E., Al-Trad, B., Alzu'bi, A., AbuAlarjah, M. I., **Al Smadi** ... & Al-Batayneh, K. M. (2021). Correlation of Sperm Mitochondrial DNA 7345 bp and 7599 bp Deletions with Asthenozoospermia in Jordanian Population. *Journal of Reproduction & Infertility*, 22(3), 165.
- Batiha, O., Shaaban, S. T., **Al-Smadi, M.**, Jarun, Y., Maswadeh, A., Alahmad, N. A., & Al-Talib, M. M. (2020). A study on the role of FMR1CGG trinucleotide repeats in Jordanian poor ovarian responders. *Gene*, 767, 145174.

- **Al Smadi, M.A.**, Hammadeh, M.E., Solomayer, E. et al. Impact of Mitochondrial Genetic Variants in ND1, ND2, ND5, and ND6 Genes on Sperm Motility and Intracytoplasmic Sperm Injection (ICSI) Outcomes. *Reprod. Sci.* (2021). <https://doi.org/10.1007/s43032-020-00449-3>
- Jahmani, M. Y., Hammadeh, M. E., **Al Smadi, M. A.**, & Baller, M. K. (2021). Label-free evaluation of chromatin condensation in human normal morphology sperm using Raman spectroscopy. *Reproductive Sciences*, 28, 2527-2539.
- Batiha, O., Burghel, G. J., Alkofahi, A., Alsharu, E., Smith, H., Alobaidi, B., **Al Smadi, M. A.**, ... & Veltman, J. (2022). Screening by single-molecule molecular inversion probes targeted sequencing panel of candidate genes of infertility in azoospermic infertile Jordanian males. *Human Fertility*, 25(5), 939-946.
- **Al Smadi, M. A.**, Hammadeh, M. E., Batiha, O., Al Sharu, E., Altalib, M. M., Jahmani, M. Y., ... & Amor, H. (2021). Elevated seminal protein carbonyl concentration is correlated with asthenozoospermia and affects adversely the laboratory intracytoplasmic sperm injection (ICSI) outcomes. *Andrologia*, e14232.
- Saleh Jaweesh, M., Hammadeh, M. E., Dahadhah, F. W., **Al Smadi, M. A.**, Al Zoubi, M. S., Alarjah, M. I. A., & Amor, H. (2022). A lack of a definite correlation between male sub-fertility and single nucleotide polymorphisms in sperm mitochondrial genes MT-CO3, MT-ATP6 and MT-ATP8. *Molecular Biology Reports*, 49(11), 10229-10238.
- Abu-Halima, M., Becker, L. S., **Al Smadi, M. A.**, Abdul-Khaliq, H., Raeschle, M., & Meese, E. (2023). Sperm Motility Annotated Genes: Are They Associated with Impaired Fecundity?. *Cells*, 12(9), 1239.
- Becker, L. S., **Al Smadi, M. A.**, Koch, H., Abdul-Khaliq, H., Meese, E., & Abu-Halima, M. (2023). Towards a More Comprehensive Picture of the MicroRNA-23a/b-3p Impact on Impaired Male Fertility. *Biology*, 12(6), 800.
- Becker, L. S., **Al Smadi, M. A.**, Raeschle, M., Rishik, S., Abdul-Khaliq, H., Meese, E., & Abu-Halima, M. (2023). Proteomic Landscape of Human Sperm in Patients with Different Spermatogenic Impairments. *Cells*, 12(7), 1017.
- Abu-Halima, M., Becker, L. S., **Al Smadi, M. A.**, Kunz, L. S., Gröger, L., & Meese, E. (2023). Expression of SPAG7 and its regulatory microRNAs in seminal plasma and seminal plasma-derived extracellular vesicles of patients with subfertility. *Scientific Reports*, 13(1), 3645.
- Becker, L. S., **Al Smadi, M. A.**, Koch, H., Meese, E., & Abu-Halima, M. (2023). O-255 microRNA-23a/b-3p regulate expression levels of testis-specific transcripts in men with impaired fecundity. *Human Reproduction*, 38(Supplement\_1), dead093-309.

## Memberships

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Member of the Jordanian Society for Fertility and Genetics (JSFG).

An expert in Medical Sector at Jordan Accreditation and Standardization System/ Accreditation Unit (JAS-AU) since 11/07/2023