

CURRICULUM VITAE (Last updated: Feb. 22nd, 2023)

Name: Mohammad Mehdi Ommati, Ph.D. – Distinguished Associate
Position: Professor (Talent-Type A)

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Date of Birth:

Place of Birth: 02nd May 1986.

Language:

Tehran, Iran

Persian, English, Chinese



ABOUT ME (A SUMMARY):

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● **Mehdi Ommati** held his degree in Animal Sciences in 2009 from Mohaghegh University and his M.Sc. (2011) and Ph.D. (2018) in the Reproductive Physiology Section at the same university (Shiraz University) under the guidance of Professor M. Javad Zamiri. During his education, he was a top student and a member of the National Elites Foundation (INEF). He moved to Shanxi Agricultural University (SXAU) for a sabbatical position in 2016. He is currently an associate professor at the College of Animal Science and Technology of Henan University of Science and Technology. He serves as an Editorial Board Member and Reviewer of over a dozen Toxicology and Reproduction-related journals. His research activities primarily focused on the various aspects of male and female reproductive indices, immuno-suppression methods in fertility, *xenobiotics-induced mitochondria injuries in reproductive and non-reproductive organs*, hepatotoxicology, behavioral traits, and xenobiotics-triggered reproductive toxicology, as well as *toxicology methods* with a beneficial effect on health; and all are documented by more than 189 publications in various peer-reviewed journals, with 3073 citations/ h-index 34/ i-10-index 75, about 20 chapters to international books, and three national and international books, as well as communications in international and domestic congresses, presenting main, oral and poster communications. Meanwhile, he has won the “Outstanding Scientist Award” in the “12th International Scientist Awards on Engineering, Science, and Medicine”. A diploma was bestowed to

him (2023) by Autonoma Metropolitan University (UAM) for his first-rank cooperation with a UAM master's degree in animal reproductive biology in the field of reproductive toxicology. Dr. Ommati is a visiting professor at the Shiraz University of Medicine (SUMS), Shiraz, Iran.

关于我(总结):

Mehdi Ommati 于 2009 年获得 Mohaghegh 大学动物科学学位，并在同一大学 (Shiraz University) 的生殖生理学专业获得硕士学位 (2011 年) 和博士学位 (2018 年)，导师是 M. Javad Zamiri。在受教育期间，他是一名优等生，还是国家精英基金会 (INEF) 的成员，2016 年进入山西农业大学做交换生，目前是河南科技大学动物科技学院的特邀副教授，同时也是十多家毒理学和生殖相关期刊的编委会成员和审稿人。他的研究主要集中于男性和女性生殖指标等各个方面，生殖和非生殖器官的免疫抑制方法，外源性诱导的线粒体损伤，肝毒理学，行为特征，外源性诱发的生殖毒理学，以及对健康有益的毒理学方法；在各种同行评议期刊上发表论文 189 余篇，被引用 3073 次/ h-index 34/ i-10-index 75，参与的国际图书编写中收录约 20 章，编写国内和国际图书 3 本，在国际和国内大会上多次做口头和海报交流。此外，他还获得了“第 12 届国际工程、科学和医学科学家奖”“杰出科学家奖”，也是伊朗设拉子大学医学院 (SUMS) 的客座教授。自治城市大学 (UAM) 授予他生殖毒理学领域动物生殖生物学硕士学位的一流合作证书 (2023 年)。

Research Keywords (*In-vivo* and *In-vitro* (Cell culture) studies)

Reproduction, fertility, reproductive toxicity, accessory gland, aging, AI, cryopreservation, embryo, endocrinology, female genital tract, male genital tract, follicle, folliculogenesis, gene and protein expression, immunology, neonates, nutrition / metabolism, oocyte, sperm, spermatogenesis, ovary, testis, pathology, puberty and maturity, sex differences / development, pharmacology/toxicology, in-vivo, in-vitro, biotechnology, biological imaging, genomics, translation, systems biology, bioengineering, biomolecular engineering, molecular pharmacology, drug discovery, enzymology, infectious disease, personalized medicine, proteomics, synthetic biology, gene/cell therapy systems, bioproducts, cell delivery, cell culture, cellular biology, molecular biology, epigenomics, microbial pathogenesis, regenerative medicine, carcinogenesis, gene editing, neurobiology, drug delivery, natural products, heavy metals, mitochondria, oxidative stress, cell death,

laboratory animal models (rabbits, rats, mice, guinea pigs, hamsters), drosophila melanogaster (the fruit fly), C. elegans, poultry, livestock.

Educational Qualifications

Visiting Professor, Pharmaceutical Sciences Research Center, Shiraz University of Medical Sciences (2020-23).

Associate Professor in Henan Key Laboratory of Environmental and Animal Product Safety, College of Animal Science and Technology, Henan University of Science and Technology, Luoyang 471000, Henan, China (Since 2023).

Associate Professor in College of Veterinary Medicine, Shanxi Agricultural University, Taigu, Jinzhong, Shanxi, China (Since 22.07 – 22.12).

Associate Professor in College of Life Sciences, Shanxi Agricultural University, Taigu, Shanxi Province, China (Since 22.06 - 22.07).

Assistant Professor in College of Life Sciences, Shanxi Agricultural University, Taigu, Shanxi Province, China (Since 2018).

Researcher and Advisor in the Toxicology department, Pharmaceutical Sciences Research Center, Shiraz University of Medical Sciences (Since 2017).

International Exchange Ph.D. Candidate in College of Animal Science and Veterinary Medicine, Reproductive Toxicology Center, Shanxi Agricultural University, Taigu, Shanxi Province, China (2016).

Research Assistant in Pharmaceutical Sciences Research Center of Shiraz University of Medical Sciences, Shiraz Medical University, Shiraz, Iran (Since 2015).

Ph.D., Department of Animal Sciences, College of Agriculture, Shiraz University, Shiraz, Iran (2014-2017).

Research Assistant in Comparative and Experimental Medicine, Shiraz University of Medical Sciences, Shiraz, Iran (2009-2013).

Research Assistant in Transgenic Technology Research Center of Shiraz University of Medicine, Shiraz, Iran (2009-2013).

M.Sc., Department of Animal Sciences, College of Agriculture, Shiraz University, Shiraz, Iran (2009-2011).

B.Sc., Department of Animal Science, College of Agriculture, Mohaghegh Ardebili University, Ardebil, Iran (2005.02-2009.07).

Research Techniques and Experiences

- **Reproductive Physiology (*In-vivo* and cell Culture)**
 - Sperm evaluation
 - Ovary and testis verification and transplantation
 - Artificial insemination
 - Reproductive serum biochemical assay
 - Hypothalamic nuclear evaluation
 - Leydig and Sertoli cell isolation/culture
 - Mitochondrial isolation
 - Cell culture
- **Reproductive Toxicology- Mechanistic Toxicology**
 - Xenobiotics-induced infertility (Male/Female)
 - Single & repeated dose toxicity on fertility
 - Embryo-fetal toxicity
 - Teratogenicity
 - Peri -/ postnatal toxicity
- **Laboratory animal surgery**
 - Gonadectomy
 - Microsurgical rat varicocele model
 - Bile duct ligation (BDL) for cirrhosis and/or cholestasis induction in rats/mice
 - Surgery and dissection
 - Biological samples collection
 - Surgical suture
 - Cardiac and vein puncture
 - Different routes of drug administration
- **Animal behavior**
- **Endocrinology**
- **Transgenic animal and stem cells**
- **Assessing sperm mitochondrial function**
- **Cirrhosis/Cholestasis and their Associated Complications**
- **Hepatic Encephalopathy and Disturbed Locomotor Activity**
- **Drug-Induced Liver Injury (DILI)**

- **Xenobiotics-Induced Mitochondrial Dysfunction**
- **Cellular Responses to Oxidative Stress**
- **Target Organ Toxicity**

Research Articles and Books in Referred Journals (Academic Addresses)

- **ORCID:** <https://orcid.org/0000-0003-0514-2414>
- **Google Scholar:** <https://scholar.google.com/citations?user=GpySIVMAAAAJ&hl=en&oi=ao>
- **Research gate:** https://www.researchgate.net/profile/Mohammad_Mehdi_Ommati3
- **Publons:** <https://publons.com/researcher/3704287/mohammad-mehdi-ommati/>
- **Web of Science Researcher ID:** [AAQ-7091-2020](https://www.webofscience.com/wos/authorid/AAQ-7091-2020)
- **Loop:** <https://loop.frontiersin.org/people/707770/overview>
- **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=55696276900>

BOOKS:

1. **Ommati, M. M.,** and Heidari R. (2023). Taurine and the Mitochondria: Applications in the pharmacotherapy of human disease. Bentham Science. (In English). ISBN: 978-981-5124-49-1.
2. Heat Stress and Animal Productivity (In Persian). (2017). Agricultural Education Research Publications.
3. Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets (In Persian). 2020. Haghshenas Publication.

Book Chapters:

1. **Ommati, M. M.,** Retana-Márquez, R., Najibi, A., and Heidari R. (2023). Advances in Nanopharmacology: Focus on Reproduction, Endocrinology, Developmental Alterations, and Next Generational Effects. Chapter 5. Ahmadian. E., Cucchiarini, M., Eftekhari, A (Eds.). Nanopharmacology and Nanotoxicology: Clinical Implications and Methods. Bentham Science Publishers. Pp. 100-138 (139). ISBN: 978-981-5079-70-8. **Doi:** 10.2174/9789815079692123010008.

2. Heidari R. and **Ommati, M. M. (Corresponding Author)**. (2023). Gastroenterological Aspects of Nanopharmacology. *Nanopharmacology and Nanotoxicology: Clinical Implications and Methods*. Chapter 6. Ahmadian, E., Cucchiarini, M., Eftekhari, A (Eds.). Bentham Science Publishers. Pp.139-167 (29). ISBN: 978-981-5079-70-8. Doi: 10.2174/9789815079692123010009.
3. Heidari, R., **Ommati, M. M.** Retana-Marquez, S. (2023). Sex Hormones in Neuroprotection and Neurodegeneration. In book: *Natural Molecules in Neuroprotection and Neurotoxicity* Publisher: Elsevier.
4. Heidari, R., **Ommati, M. M.** (2023). Taurine: Synthesis, Dietary Sources, Homeostasis, and Cellular Compartmentalization. Chapter 1. Heidari R & Ommati M. Mehdi (Eds.). Bentham Science Publishers. pp. 1-21 (21). ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010003.
5. Heidari, R., **Ommati, M. M.** (2023). Taurine and the Mitochondrion. Chapter 2. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 22-44. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010004.
6. Heidari, R., **Ommati, M. M.** (2023). Applications of Taurine in The Central Nervous System Disorders Linked with Mitochondrial Impairment. Chapter 3. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 45-75. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010005.
7. Heidari, R., **Ommati, M. M.** (2023). Taurine and the Cardiovascular System: Focus on Mitochondrial-Related Pathologies. Chapter 4. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 76-107. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010006.
8. Heidari, R., **Ommati, M. M.** (2023). Taurine and the Liver: A Focus on Mitochondria-Related Liver Disease. Chapter 5. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 108-136. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010007.
9. **Ommati, M. M.**, Heidari, R. (2023). Taurine As an Anti-Aging Compound: Focus on Mitochondria related Mechanisms. Chapter 6. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 137-173 (37). ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010008.
10. Heidari, R., **Ommati, M. M.** (2023). Taurine and Skeletal Muscle Disorders: Highlighting the Mitochondria-Dependent Mechanisms. Chapter 7. Heidari R &

Ommati M. M (Eds.). Bentham Science Publishers. pp. 174-199. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010009.

11. Heidari, R., **Ommati, M. M.** (2023). Taurine and the Renal System: Effects on Mitochondrial Function and Energy Metabolism. Chapter 8. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 200-225. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010010.
12. Heidari, R., **Ommati, M. M.** (2023). The Mechanism of Action of Taurine in the Digestive System. Bentham Science Publishers. Chapter 9. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 226-238. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010011.
13. **Ommati, M. M.**, Heidari, R. (2023). The Role of Taurine in the Reproductive System: A Focus on Mitochondria-related Mechanisms. Chapter 10. Heidari R & Ommati M. M (Eds.). Bentham Science Publishers. pp. 239-273. ISBN: 978-981-5124-49-1. Doi: 10.2174/9789815124484123010012.
14. **Ommati, M. M.**, Heidari, R. (2023). Role of Taurine Supplementation in Obesity: Stimulating Fats to Burn in Cellular Power Plants. Chapter 11. Heidari R & Ommati M. M (Eds.). pp. 274-307. Bentham Science Publishers. Doi: 10.2174/9789815124484123010013.
15. Heidari, R., **Ommati, M. M.** (2023). The Importance of Appropriate Taurine Formulations to Target Mitochondria. Chapter 12. Heidari R & Ommati M. M (Eds.). pp. 308-327. Bentham Science Publishers. Doi: 10.2174/9789815124484123010014.
16. Heidari, R., **Ommati, M. M.**, Niknahad, H. (2022). Ammonia. Chapter 12. in Book: Mitochondrial Intoxication. Elsevier Publications. Accepted.
17. Heidari, R., **Ommati, M. M.**, Niknahad, H. (2022). Drug-induced mitochondrial impairment: Mechanisms and testing systems. Chapter 3. In Book: Mitochondrial Intoxication. Elsevier Publications. <https://doi.org/10.1016/B978-0-323-88462-4.00009-2>.
18. Heidari, R., **Ommati, M. M.**, Niknahad, H. (2021). Mitochondria as Biosynthetic Centers and Targeted Therapeutics. Chapter 2. In Book: Mitochondrial Metabolism. Elsevier Publications. Mitochondrial Metabolism, pp. 19-47. Academic Press. DOI: 10.1016/B978-0-12-822416-8.00008-7.

19. **Ommati, M. M.**, and Heidari, R. (2021). Amino acids ameliorate heavy metals-induced oxidative stress in male/female reproductive tissue. Chapter 37. Preedy, V. R., & Patel, V. B. (Eds.). In *Toxicology*, pp. 371-386. Academic Press. DOI: <https://doi.org/10.1016/C2018-0-04534-X>.
20. **Ommati, M. M.**, and Heidari, R. (2021). Betaine, heavy metal protection, oxidative stress, and the liver. Chapter 38. Preedy, V. R., & Patel, V. B. (Eds.). In *Toxicology*, pp. 387-395. Academic Press. DOI: <https://doi.org/10.1016/C2018-0-04534-X>.

Original Research:

1. **Ommati, M. M.**, Sabouri, S., Niknahad, H., Arjmand, A., Alidaee, S., Mazloomi, S., Najibi, A., Rezaei, H., Ghiasvand, A.,, Heiari, R. (2023). Pulmonary inflammation, oxidative stress, and fibrosis in a mice model of cholestasis: The potential protective properties of the dipeptide carnosine. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 396(6):1129-1142. DOI: 10.1007/s00210-023-02391-y.
2. **Ommati, M. M.**, Mobasheri, A., Niknahad, H., Rezaei, M., Alidaee, S., Arjmand, A.,, Heiari, R. (2023). Low-dose ketamine improves animals' locomotor activity and decreases brain oxidative stress and inflammation in ammonia-induced neurotoxicity. *Journal of Biochemical and Molecular Toxicology*. DOI: 10.1002/jbt.23468
3. **Ommati, M. M.**, Niknahad, H., Najibi, A., Arjmand, A., Alidaee, S., Mazloomi, S., Ahmadi, P., Ghiasvand, A., Javadi, M., Yazdani, J., Sabouri, S., Rezaei, H., Azarpira, N., Heiari, R. (2023). Cholestasis-Associated Pulmonary Inflammation, Oxidative Stress, and Tissue Fibrosis: The Protective Role of the Biogenic Amine Agmatine. *Pharmacology*. DOI: 10.1159/000530307.
4. Niknahad, H., Mehraban, P., Arjmand, A., Mazloomi, S., Ahmadi, P., Abdoli, N., Saeed, M., Rezaei, M., **Ommati, M. M (Corresponding Author)**., Heidari, R. (2023). Cirrhosis-induced oxidative stress in erythrocytes: The therapeutic potential of taurine. *Clinical and Experimental Hepatology*. 9, 1: 1–15. DOI: DOI:10.5114/ceh.2023.126028.
5. **Ommati, M. M (Corresponding Author)**., Sabouri, S., Retana-Marquez, S., NateghAhmadi, H., Arjmand, A., Alidaee, S., Mazloomi, S., Akhlagh, A., Abdoli, N., Niknahad, H., Jamshidzadeh, A., Ma, Y., Azarpira, N., Asefi, Y., Heidari, R. (2022). Taurine improves sperm mitochondrial indices, blunts oxidative stress

parameters, and enhances steroidogenesis and kinematics of sperm in lead-exposed mice. Accepted. Reproductive sciences. DOI:10.1007/s43032-022-01140-5.

6. **Ommati, M. M (Corresponding Author)**., NateghAhmadi, H., Sabouri, S., Retana-Marquez, S., Abdoli, N., Rashno, S., Niknahad, H., Jamshidzadeh, A., Mousavi, Kh., Rezaei, M., Akhlagh, A., Azarpira, N., Khodaei, F., Heidari, R. (2022). Glycine protects the male reproductive system against lead toxicity via alleviating oxidative stress, preventing sperm mitochondrial impairment, kinematics of sperm, and blunting the downregulation of enzymes involved in the steroidogenesis. *Environmental Toxicology*. 37(12):2990-3006. DOI: 10.1002/tox.23654.
7. **Ommati, M. M.**, Abdoli, N., Firouzi, M., Mazloomi, S., Mousavi, Kh., Niknahad, H., Heidari, R. (2022). Sildenafil blunts lung inflammation and oxidative stress in a rat model of cholestasis. *Pharmaceutical Sciences*. Accepted. DOI:10.34172/PS.2022.38.
8. **Ommati, M. M.**, Jamshidzadeh, A., Saeed, M., Rezaei, M., Heidari, R. (2022). Dextromethorphan improves locomotor activity and decreases brain oxidative stress and inflammation in an animal model of acute liver failure. *Clinical and Experimental Hepatology*. 8, 3: 1–10. DOI: 10.5114/ceh.2022.118299.
9. **Ommati, M.M.**, Mobasheri, A., Ma, Y. et al. Xu, D., Tang, Zh., Manthari, R. K., Abdoli, N., Azarpira, N., Lu, Y., Sadeghian, I., Mousavifaraz, A., Nadgaran, A., Nikoozadeh, A., Mazloomi, S., Mehrabani, P., Rezaei, M., Xin, H., Mingyu, Y., Niknahad, H., Heidari, R. (2022). Taurine mitigates the development of pulmonary inflammation, oxidative stress, and histopathological alterations in a rat model of bile duct ligation. *Naunyn-Schmiedebergs Archives of Pharmacology*. <https://doi.org/10.1007/s00210-022-02291-7>.
10. Najibi, A., Rezaei, H., Kumar Manthari, R., Niknahad, H., Jamshidzadeh, A., Farshad, O., Yan, F., Ma, Y., Xu, D., Tang, Zh., **Ommati, M. M (Corresponding Author)**., Heidari, R. (2022). Cellular and mitochondrial taurine depletion in bile duct ligated rats: a justification for taurine supplementation in cholestasis/cirrhosis. *Clinical and Experimental Hepatology*. 8, 3: 1–16. DOI: <https://doi.org/10.5114/ceh.2022.119216>.
11. **Ommati, M. M.**, Mobasheri, A., Heidari, R. (2021). Drug-Induced Organ Injury in Coronavirus Disease 2019 (COVID-19) Pharmacotherapy: Mechanisms and Challenges in Differential Diagnosis and Potential Protective Strategies. *Journal of Biochemical and Molecular Toxicology*. 35:e22795. DOI: 10.1002/jbt.22795. SCI: 3.

12. **Ommati, M. M (Corresponding Author),** Arabnezhad, M. R., Farshad, O., Jamshidzadeh, A., Niknahad, H., Retana-Marquez, S., Jia, Zh., Nateghahmadi, M. H., Heidari, R. (2021). The role of mitochondrial impairment and oxidative stress in the pathogenesis of lithium-induced reproductive toxicity in male mice. *Frontiers in Veterinary Science*. 8: 603262. DOI: 10.3389/fvets.2021.603262. SCI: 2.
13. **Ommati, M. M (Corresponding Author),** Retana-Marquez, S., Jia, Zh., M. H., Heidari, R. (2022). The crucial role of oxidative stress in non-alcoholic fatty liver disease-induced male reproductive toxicity: the ameliorative effects of Iranian indigenous probiotics. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 395(2):247-265. DOI: 10.1007/s00210-021-02177-0. SCI: 4.
14. **Ommati, M. M.,** Farshad, O., Azarpira, N., Ghazanfari, E., Niknahad, H., Heidari, R. (2021). Silymarin Mitigates Bile Duct Obstruction-Induced Cholemic Nephropathy. *Naunyn-Schmiedebergs Archives of Pharmacology*. 394: 1301–1314. DOI: 10.1007/s00210-020-02040-8. SCI: 4.
15. **Ommati, M. M.,** Hojatnezhad, S., Abdoli, N., Manthari, R. K., Jia, Zh., Najibi, A., Akbarizadeh, A. R., Sadeghian. I., Farshad, O., Azarpira, N., Niknahad, H., Heidari, R. (2021). Pentoxifylline mitigates cholestasis-related cholemic nephropathy. *Clinical and Experimental Hepatology*. DOI: 10.5114/ceh.2021.111014.
16. **Ommati, M. M.,** Amjadnia, A., Mousavi, Kh., Azarpira, N., Jamshidzadeh, A., Heidari, R. (2021). N-acetyl cysteine treatment mitigates biomarkers of oxidative stress in different tissues of bile duct ligated rats. *Stress-the International Journal on the Biology of Stress*. 24:2, 213-228, DOI: 10.1080/10253890.2020.1777970. SCI: 3.
17. Mousavi, Kh., Manthari, R. K., Najibi, A., Jia, Zh., **Ommati, M. M (Corresponding Author),** Heidari, R. (2021). Mitochondrial dysfunction and oxidative stress are involved in the mechanism of tramadol-induced renal injury. *Current Research in Pharmacology and Drug Discovery*. 24 (2): 100049. DOI: 10.1016/j.crphar.2021.100049.
18. Ahmadi, N., Niknahad, H., Li, H., Mobasheri, A., Manthari, R. K., Azarpira, N., Mousavi, Kh., Khalvati, B., Zhao, Y., Sun, J., Zong, Y., **Ommati, M. M (Corresponding Author),** Heidari, R. (2022). The inhibition of NFκB signaling and inflammatory response as a strategy for blunting bile acid-induced hepatic and renal toxicity. *Toxicology Letters*. 349: 12-29. DOI: 10.1016/j.toxlet.2021.05.012. SCI: 2.
19. **Ommati, M. M.,** Niknahad, H., Farshad, O., Azarpira, N., Heidari, R. (2021). In vitro and in vivo evidence on the role of mitochondrial impairment as a mechanism

of lithium-induced nephrotoxicity. *Biological Trace Element Research*. 199: 1908–1918. DOI: 10.1007/s12011-020-02302-9. (SCI). SCI: 3.

20. **Ommati, M. M.**, Farshad, O., Azarpira, N., Shafaghat, M., Niknahad, H., Heidari, R. (2021). Betaine alleviates cholestasis-associated renal injury by mitigating oxidative stress and enhancing mitochondrial function. *Biologia*. 76, 351–365. DOI: 10.2478/s11756-020-00576-x. SCI: 4.
21. **Ommati, M. M (Corresponding Author).**, Shi, X., Li, H., Zamiri, M. J., Farshad, O., Jamshidzadeh, A., Heidari, R., Ghaffari, H., Zaker, L., Sabouri, S., Chen, Y. (2020). The Mechanisms of Arsenic-Induced Ovotoxicity, Ultrastructural Alterations, and Autophagic Related Paths: An Enduring Developmental Study in Folliculogenesis of Mice. *Ecotoxicology and Environmental Safety*. 204: 110973. DOI: 10.1016/j.ecoenv.2020.110973. SCI: 1.
22. **Ommati, M. M.**, Manthari, R. K., Tikka, S. Ch. J., Niu, R., Sun, Z., Sabouri, S., Zamiri, M. J., Nategh Ahmadi, H., Ghaffari, H., Heidari, R., Wang, J. (2020). Arsenic-induced Autophagic Alterations and Mitochondrial Impairments in HPG-S Axis of Mature Male Mice Offspring (F1-generation): A persistent toxicity study. *Toxicology Letters*. 326 (15). 83-98. DOI: 10.1016/j.toxlet.2020.02.013. SCI: 2.
23. **Ommati, M. M.**, Farshad, O., Ghanbarinejad, V., Mohammadi, H. R., Mousavi, Kh., Ilkhaninasab, F., Azarpira, N., Moezi, L., Heidari, R. (2020). The nephroprotective role of carnosine against ifosfamide-induced renal injury and electrolytes imbalance is mediated via the regulation of mitochondrial function and alleviation of oxidative stress. *Arzneimittel-Forschung-Drug Research*. 70 (01): 49-56. DOI: 10.1055/a-1017-5085. (ISI).
24. **Ommati, M. M.**, Farshad, O., Mousavi, Kh., Khalili, M., Jamshidzadeh, A., Heidari, R. (2020). Chlorogenic acid supplementation improves skeletal muscle mitochondrial function in a rat model of resistance training. *Biologia*. 75:1221–1230. DOI: 10.2478/s11756-020-00429-7. SCI: 4.
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98. Heidari, R., Ghanbarinejad, V., **Ommati, M. M.**, Jamshidzadeh, A., Niknahad, H. (2018). Regulation of Mitochondrial Function and Energy Metabolism: A Primary Mechanism of Cytoprotection Provided by Carnosine. *Trends in Pharmaceutical Sciences*. 4(1): 43-52.
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Swelling upon Interaction with Manganese: Implication in the Treatment of Cirrhosis-Associated Central Nervous System Complications. *Journal of Biochemical and Molecular Toxicology*. 32 (11): DOI: 10.1002/jbt.22216. (SCI).

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114. Rezvani, M. R., Akhlaghi, A., Saemi, F., **Ommati, M. M.**, Dadpasand, M., Atashi, H. (2016). Determination of standardized prececal protein digestibility of canola meal in British United turkeys Big 6 at different ages using multiple linear regression procedure. *Iran Agricultural Research*. 35 (2): 41-46. (SCI).
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117. Pazhoohi, F., Shojaee, S., **Ommati, M. M.**, Saemi, F., Zamiri, M. J., Akhlaghi, A. (2014). Fear response in roosters orally exposed to alcohol: an alternative animal model. *Iranian Journal of Applied Animal Science*. 4 (3): 647-649.
118. Saemi, F., Zamiri, M. J., Akhlaghi, A., Niakousari, M., Dadpasand, M., **Ommati, M. M.** (2012). Dietary inclusion of dried tomato pomace improves the seminal

characteristics in Iranian native roosters. Poultry Science. 91(9):2310–2315. DOI: 10.3382/ps.2012-02304. (SCI).

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Papers Presented at National and Overseas Conferences

Overseas Conferences:

1. **Keynote speaker** in International Conference on “**Reprotoxicants Mechanisms of action**” organized by Biology of Reproduction Research Academy (AIBIR) Committee, Mexico “Academia de Investigación en Biología de la Reproducción, A.C. A IB IR; <https://www.sites.google.com/site/aibirac/>; aibir2011@gmail.com”. Boca del Río, Veracruz, Mexico, May 27th, 2021.
Title: “Single-walled and Multi-walled Carbon Nanotubes-Induced Spermatotoxicity”.
2. Delivered **an invited talk** in International Conference on **Environment and Animal Health – 2019** organized by College of Animal Science and Veterinary Medicine, Shanxi Agricultural University, Taigu, Shanxi Province, China during 14-16th, September 2019.
Title: “Arsenic-induced Autophagic Alterations and Mitochondrial Impairments in HPG-S Axis in Pubertal and Mature Male Mice Offspring (F1-generation): A Two-Generation Reproductive Toxicity Study”
3. Delivered **an invited talk** in International Conference on **Environment and Animal Health – 2017** organized by College of Animal Science and Veterinary Medicine, Shanxi Agricultural University, Taigu, Shanxi Province, China during 14-16th, July 2017.
Title: “Is immunosuppression, induced by neonatal thymectomy, compatible with poor reproductive performance in adult male rats?”
4. Delivered **an invited talk** in International Conference on **Environment and Animal Health – 2016** organized by College of Animal Science and Veterinary Medicine, Shanxi Agricultural University, Taigu, Shanxi Province, China during 09-12th, October 2016.
Title: “Livestock production systems and trends in livestock Industry in Iran”

5. Delivered **an invited talk** in organized by College of Animal Science and Veterinary Medicine, Shanxi Agricultural University, Taigu, Shanxi Province, China during 09-12th, October 2016.
Title: “Effect of Arsenic and/or Lead on sperm mitochondrial characteristics and the expressions of reproductive related genes of hypothalamus–pituitary–gonad axis (HPG) ”.

National Conferences

1. Zandi, E., **Ommati, M. M. (Corresponding author)** (2011). Review: Effect of heat stress on gene expression. In: Proceedings of the 1st Kerman Congress on Animal Science.
2. Daryabari, H., Zare Sheibani, A. A., **Ommati, M. M. (Corresponding author)** (2011). Review: Control of Heat Stress in Broiler chickens. Proc. The 1st National Seminar of Animal Production in Hot Climates, September 7, 2011, Shahid Bahonar University of Kerman, Kerman, Iran (In Persian with English Abstract).
3. **Ommati, M. M.**, Zamiri, M. J., Akhlaghi, A., Saemi, F. (2011). Effect of sage (*Salvia officinalis*) extract on seminal characteristics of indigenous Fars chickens. Proc. The 1st national seminar of animal production in hot climates, September 7, 2011, Shahid Bahonar University of Kerman, Kerman, Iran, p.1098-1101 (In Persian with English Abstract).
4. **Ommati, M. M.**, Zamiri, M. J. (2011). Review: Control of broodiness in tropical areas. Proc. The 1st national seminar of animal production in hot climates, September 7, 2011, Shahid Bahonar University of Kerman, Kerman, Iran, (In Persian with English Abstract).
5. Saeme, F., Zamiri, M. J., Akhlaghi, A., **Ommati, M. M.**, Dadpasand, M., Atashi, H. (2012). Effect of age on prececal protein digestibility of rapeseed meal and carcass characteristics in British United Turkey. Proc. 5th Iranian Congress on Animal Science. Esfahan. p.168-172 (In Persian with English Abstract).
6. Saeme, F., zamiri, M. J., Akhlaghi, A., **Ommati, M. M.** (2011). Effect of tomato pulp powder addition to the diet on semen characteristics of roosters. In: Proceedings of the 1st Kerman Congress on Animal Science.
7. Saeme, F., **Ommati, M. M.**, Dadpasand, M., zamiri, M. J. (2011). Effect of tomato pulp powder and sage (*Salvia officinalis*) extract seminal characteristics of indigenous Fars chickens. Proc. The 1st National Seminar of Animal Production in

Hot Climates, September 7, 2011, Shahid Bahonar University of Kerman, Kerman, Iran (In Persian with English Abstract).

8. Saemee, F., Rezvani, M. R., Akhlaghi, A., **Ommati, M. M.** (2011). British united turkey rearing in Fars province. Proc. The 1st National Seminar of Animal Production in Hot Climates, September 7, 2011, Shahid Bahonar University of Kerman, Kerman, Iran, p.1116-1119 (In Persian with English Abstract).
9. **Ommati, M. M.**, Rezvani, M. R., Akhlaghi, A., Zafari, S. (2010). Effect of ration physical form and environmental temperature on performance and several carcass parameters in broilers. Proc. 4th Iranian Congress on Animal Science. September 20-21, 2010, Agriculture College of Tehran University, Karaj, Iran, p. 554-558 (In Persian with English Abstract).
10. Javan, A. A., Lotfollahian, H., Mirhadi, S. A., Arab, M., Zamiri, M. J., Roowghani, E., Shivazad, M., **Ommati, M. M.** (2010). Determination of metabolisable energy of domestic sorghum of Sistan and Baluchestan province in broilers. Proc. 4th Iranian Congress on Animal Science. September 20-21, 2010, Agriculture College of Tehran University, Karaj, Iran, p.70 (In Persian with English Abstract).
11. Rezvani, M. R., Rodehutsord, M., **Ommati, M. M** (2010). Survey of Marker transit time in the gastrointestinal tract of caeectomised laying hens. Proc. 4th Iranian Congress on Animal Science. September 20-21, 2010, Agriculture College of Tehran University, Karaj, Iran, p.61 (In Persian with English Abstract).
12. Zafari, S., Rezvani, M. R., Jahanian, H., Abbasian Najafabadi, A., **Ommati, M. M.**, 2010. Effect of using different fat and oil supplements in diets on the performance and some carcass parameters of broiler chickens. Proc. 4th Iranian Congress in Animal Science. September 20-21, 2010, Agriculture College of Tehran University, Karaj, Iran, p.60 (In Persian with English Abstract).

Supervisor and Advisor of Theses (Some of the selected ones)

Supervisor: [Student's Name (**TITLE, Registration code (RC)**)]

1. **Dr. Heresh Rezaei;** DVM, Toxicology PhD Student (Maternal gestational and weaning time taurine supplementation improves cognitive function, reflexive motor

- activity, and emotional behaviors in mice offspring: A persistent developmental study from puberty to maturity, 2021).
2. **Yu Lu** (Histidine mitigates the reprotoxicity induced by Pb through improvement of mitochondrial function, 2021, 18834067314).
 3. **Asrin Ahmadi**, Toxicology PhD Student (The inhibition of NFkB signaling and inflammatory response as a strategy for blunting bile acid-induced hepatic and renal toxicity, 2020, #98 01-05 19529).
 4. **Khadijah Mousavi**, Toxicology PhD Student (Mitochondrial dysfunction and oxidative stress are involved in the mechanism of tramadol-induced renal injury, 2020, IR.SUMS.REC.1397.095).
 5. **Vahid Ghanbarinejad**, Toxicology PhD Student (Disturbed Mitochondrial Redox State and Tissue Energy Charge in Cholestasis, 2020, Registration No. 19529).
 6. **Sun Jianyu** (Ameliorative Role of Carnosine Against Lead-Induced Reprotoxicity through Oxidative Stress Indices: With an Eye to Bioinformatics, 2021, 20171311030).
 7. **Zong Yuqi** (Mitigating Role of Carnosine Against Lead-Induced Reproductive toxicity via Mitochondrial-Related Mechanisms: Focus on Bioinformatics, 2021, 20171311039).
 8. **Fatemeh Danaeizadeh**, Pharm. D. (Effects of Piracetam on Locomotor Impairment, Mitochondrial Dysfunction, and Brain Markers of Oxidative stress in a Mice Model of Hyperammonemia, 2021, **Registration code (RC: 9910874054)**).
 9. **Hadi Razavi**, Pharm. D. (Effects of Memantin on Locomotor Impairment and Brain Markers of Oxidative stress in a Mice Model of Hepatic Encephalopathy, 2021, **RC: 9920312053**).
 10. **Saeed Ahmadifar**, Pharm. D. (Evaluating the role of moderate hypothermia on animal locomotor activity, mitochondrial function, and brain biomarkers of oxidative stress in a mice model of hepatic encephalopathy, 2021, **RC: 9920312055**).
 11. **Abolghasem Mousavifaraz**, Pharm. D. (Effects of Taurine on Lung Inflammation and Fibrosis in a Rat Model of Cholestasis, 2021, **RC: 9920312056**).
 12. **Wu Peizhi** (Cholestasis-Associated Reproductive Toxicity in Male Mice: The Fundamental Role of Oxidative Stress, 2020).

13. **Yang Shung** (Ovatoxicity in BDL Female Mice via Oxidative Stress Indices, 2020).
14. **Zhang Mengjie** (Detrimental Effects of Hepatic Encephalopathy on Brain and Liver Mitochondrial Function in A Mouse Model of Fulminant Hepatic Failure and Hyperammonemia, 2020).
15. **Yang Heming** (Oxidative Stress Involved in the Pathogenesis of Cholestasis-Associated Cholemic Nephropathy, 2020).
16. **Bai Bin** (Intestinal Barrier Disintegrity and Bacterial Endotoxin Translocation in Cirrhotic rats through Oxidative Stress Related Routes, 2020).
17. **Elham Bahraminia**, Pharm.D. (*In-vitro* evaluation of heavy metals-induced toxicity in primary cultured Sertoli cells and other *in-vivo* related indices; **RC: 8915574054**).
18. **Mohaddese Ghanbari**, Pharm.D. (*In-vitro* and *in-vivo* evaluation of some crucial heavy metals-induced reprotoxicity; **RC: 9399003040**).
19. **Shiva Akrami**, Pharm.D. (Cholestasis-associated reproductive toxicity in female rats; **RC: 97-01-36-17516**).
20. **Omid Farshad**, Pharm.D. (Mechanisms of arsenic-induced reproductive toxicity; **RC: 97-01-36-17549**).
21. **Fatemeh Ahmadi**, Pharm.D. (Effect of carnosine and histidine on lead-induced damage on reproductive function in male rats; **RC: 95-01-36-11290**).
22. **Nafiseh Javanmard**, Pharm.D. (Effects of Sulfasalazine on Rat Sperm: In vitro and In vivo; **RC: 94-01-36-11083**).
23. Pharm.D. (Evaluating the role of carnosine against ammonia-induced oxidative stress in CNS in a rat model of fulminant liver failure and hyperammonemia; **RC: 95-01-36-12054**).
24. Pharm.D. (Effect of methimazole metabolite, N-methylthiourea on isolated rat liver mitochondria; **RC: 95-01-36-11415**).
25. Pharm.D. (Evaluating the role of taurine in a rat model of fulminant liver failure; **RC: 93-01-36-7218**).
26. **Anahita Marhoonian**, Pharm.D. (In vitro evaluation of manganese- induced toxicity in primary cultured LCs; **RC: 97-01-36-16776**).

27. **Aysooda Arazi**, Pharm.D. (Effect of lithium on reproductive parameters and sperm abnormalities (In-vivo); (RC: 97-01-36-18761)).
28. **Fereshteh Khoshghadam**, Pharm.D. (Effect of probiotics on male reproductive system; (RC: 96-01-36-16455)).
29. **Meghdad Khalili**, Pharm.D. (Nano-tubes and reproductive toxicity; (RC: 97-01-36-181816)).

Advisor- Major Contributire: [Student's Name (TITLE, RC)]

1. **Mojtaba Shafiekhani**, Clinical Pharmacy PhD Student (Effect of glycine supplementation on lead-induced nephrotoxicity; (RC: 1396-01-36-15283)).
2. **Mehdi Zarei**, Pharm.D. (Amino acids against ammonia-induced mitochondrial swelling; (RC: 95-01-36-12472)).
3. **Omid Farshad**, Pharm.D. (Effect of proline supplementation on liver cirrhosis; (RC: 95-01-36-13555)).
4. **Asrin Ahmadi**, Toxicology PhD Student (Role of mitochondrial dysfunction in methotrexate-induced Fanconi syndrome; (RC: 95-01-36-12347)).
5. **Ala Sadeghi** Pharm.D. (Effect of betaine administration on liver mitochondrial function in acute hepatic encephalopathy; (RC: 95-01-36-12046)).
6. **Saniya Alahyari** Pharm.D. (Amino Acid Containing Krebs-Henseleit Buffer Preserved Rat Liver Functionality in a Long Term Perfusion Model; (RC: 95-01-36-12164)).
7. **Elaheh Rashidi** Pharm.D. (Effect of Betaine on Liver Mitochondrial Function in a Bile Duct Ligated (BDL) Rat Model of Cirrhosis; (RC: 94-01-36-10930)).
8. **Elham Ghodsimanesh** Pharm.D. (Hepatoprotective effects of boldine in a rat model of acute liver failure; (RC: 95-01-36-12118)).
9. **Nahid Najafi** Toxicology M.Sc. (The effect of Thiol Reductants on Valproic Acid-Induced Toxicity; (RC: 95-01-36-12163)).
10. **Morgan Abasvali** Pharm.D. (Effect of taurine on CNS oxidative stress in a rat model of acute liver failure and hepatic encephalopathy; (RC: 95-01-36-12042)).

11. **Faraz Kasra** Pharm.D. (Effect of Carnosine on Heavy Metals–Induced Oxidative Stress in Liver Post Nuclear Supernatant (PNS); **(RC: 95-01-36-11630)**).
12. **Athena Esfandiari** Pharm.D. (Effect of Dithioeritol on Liver Fibrosis in a Bile Duct Ligated (BDL) Mice Model of Cirrhosis; **(RC: 94-01-36-9613)**).
13. **Maryam Azadbakht** Pharm.D. (Propylthiouracil-induced mitochondrial dysfunction; **(RC: 95-01-36-11453)**).
14. **Amir Khosravi** Pharm.D. (Effect of taurine administration on liver and brain mitochondria in acute hepatic encephalopathy; **(RC: 94-01-36-9823)**).
15. **Behnam Asadi** Pharm.D. (Effects of Boldine in a Bile Duct Ligated (BDL) Rat Model of Cirrhosis; **(RC: 94-01-36-10649)**).
16. **Faezeh Jafari** Pharm.D. (Mechanisms of valproic acid-induced renal injury; **(RC: 94-01-36-10650)**).
17. **Roya Mohammadzadeh** Pharm.D. (Mechanisms of sulfasalazine-induced renal injury; **(RC: 94-01-36-9606)**).
18. **Nahid Keshavarz** Pharm.D. (Antithyroid Drugs-Induced Mitochondrial Dysfunction; **(RC: 94-01-36-9576)**).
19. **Hamdollah Azizi** Pharm.D. (Chemotherapy-induced liver injury in isolated perfused rat liver: a model for screening hepatoprotective agents; **(RC: 94-01-36-9535)**).
20. **Farzaneh Abazari** Pharm.D. (Evaluating the effects of carnosine against amodiaquine-induced hepatotoxicity in rats; **(RC: 93-01-36-7610)**).
21. **Maryam Rasti** Pharm.D. (Evaluating the role of taurine administration on the hepatotoxicity and nephrotoxicity induced by sulfasalazine in rat; **(RC: 93-01-36-7612)**).
22. **Azita Zarei** Pharm.D. (Evaluating the role of taurine on liver injury and regeneration in a bile duct ligated (BDL) rat model of cirrhosis; **(RC: 93-01-36-7220)**).
23. **Zahra Latifpour** Pharm.D. (Evaluating the role of carnosine on hepatic encephalopathy in bile duct ligated (BDL) rats; **(RC: 93-01-36-7207)**).
24. **Farshad Safari** Pharm.D. (An investigation on the role of taurine and glycine administration on sulfasalazine induced hepatic injury in isolated perfused rat liver; **(RC: 93-01-36-7208)**).

25. **Milad Niknahad** (MD)., (Role of oxidative stress in the mechanism of manganese-induced renal injury; (RC: 97-01-36-17660)).

Memberships

- Member of American Chemical Society; ACS Member Number – 31906718 (Application ID: 176366).
- Member of Iran's National Elites Foundation (Number: 50565.15; Date: 2013/09/14).

Honors and Achievements

- **Award winner** “Outstanding Scientist Award” in “12th International Scientist Awards on Engineering, Science and Medicine” 20&21-Nov-2020| Visakhapatnam, India. Profile ID: VDSA3119.
- **American Chemical Society**; ACS Member Number - 31906718 (Application ID: 176366).
- Shiraz University of Medicine (SUMS) Inbound Visiting Professor (2020).
<http://gsia.sums.ac.ir/en/print/menu/18644>.
- A distinguished student in M.Sc. (among 4), Shiraz University (2010-2012).
- A distinguished student in B.Sc. (among 42), Mohaghegh University (2006-2010).
- Gifted student at B.Sc. level.

Editorial Board and Reviewer

Topic/Associate Editor:

- Life: Novel Mechanisms Involved in Male and Female Reproductive Disorders and Toxicities.
(https://www.mdpi.com/journal/life/special_issues/09O9BM1847).

- Reproduction and Fertility.
(<https://raf.bioscientifica.com/page/edboard/editorial-board>).
- Frontiers in Veterinary Science: Reproductive Toxicity and Xenobiotic-induced Animal Infertility.
(<https://www.frontiersin.org/research-topics/15205/reproductive-toxicity-and-xenobiotic-induced-animal-infertility>).
- Trends in Pharmaceutical Sciences (TiPS).
(<https://tips.sums.ac.ir/journal/editorial.board>).
- BOHR International Journal of General and Internal Medicine (BIJGIM)
(<https://bohrpub.com/journals/BIJGIM#editorial>).

Reviewer in:

- Theriogenology
- Journal of Agricultural and Food Chemistry
- Tissue and Cell
- Journal of Cosmetic Dermatology
- Frontiers in Physiology
- Toxicology Reports
- ...

Editor-In-Chief in:

- International Journal of Reproductive Medicine and Sexual Health.
(<https://www.raftpubs.com/ijrmsh-reproductive-medicine-and-sexual-health/editorial-board>).

Editorial Board in:

- Sexual and Reproductive Medicine (<https://www.pulsus.com/sexual-reproductive-medicine/editorial-board.html>).
- Austin Journal of In-vitro Fertilization (<http://austinpublishinggroup.com/invitro-fertilization/editorialBoard.php>).
- Reproductive Immunology: Open Access (<http://reproductive-immunology.imedpub.com/editors.php>).
- Open Access Pub (<https://openaccesspub.org/editor-profile/dr-mohammad-mehdi-ommati-2680>).
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- GSL Journal of Drug Testing and Analysis (<http://gslpublishers.org/journals/editorial-board.php?title=gsl-journal-of-drug-testing-and-analysis->).
- International Journal of Ethology (<https://openaccesspub.org/journal/ije/editorial-board>).
- Journal of Veterinary Medicine and Health (<https://www.omicsonline.org/editorialboard-journal-veterinary-medicine-health.php>).
- International Journal of Oxygen Compounds (<https://openaccesspub.org/journal/ijo/editorial-board>).
- Gynaecology And Reproductive Endocrinology (<http://scientificexhelters.com/sejgrrb.html>).
- Journal of Psychological Disorders (<https://openaccesspub.org/journal/jpd/editorial-board>).
- Research and Advances: Environmental Sciences (<https://ocimumpublishers.com/journal/environmental-sciences/board-members/2>).
- International Journal of Scientific Research in Environmental Science and Toxicology (<https://symbiosisonlinepublishing.com/toxicology/editorialboard.php>).
- The General Surgeon (<http://www.medtextpublications.com/the-general-surgeon-editorial-board.php>).

Grant (s)/ Fellowship Received

1. Natural Science Foundation of Shanxi (Grant No. 20210302124411; Project Leader: Mohammad Mehdi Ommati).

Title: AIF通过自噬和凋亡相关途径诱导胆汁淤积性HPG轴损伤的机制 (2021.01-2024.12, Natural Science Foundation of Shanxi, Grant No. 20210302124411, 5万元, 5 participants in total, Project Leader: Mohammad Mehdi Ommati, Associate professor, Published $x > 5$ SCI papers).

2. Outstanding doctors are volunteering to work in Shanxi Province (Grant No. K271999031; Project Leader: Mohammad Mehdi Ommati).

Title: The Footprint of Apoptosis on Oxidative Stress-induced Mitochondrial Impairments in BDL Mice (2019年11月—2021年10月, 山西省优秀博士来晋工作奖励资金科研项目合同书, Grant No. K271999031, 150,000.00元, 1 participant in total, Project Leader: Mohammad Mehdi Ommati, Assistant Professor, Published $x > 50$ SCI papers).

3. Natural Science Foundation of Shanxi Province (Grant No. 201901D111232; Project Leader: Ma Yanqin).

Title: 线粒体ROS/Egr-1通路对砷暴露心肌细胞坏死性凋亡的调控作用研究 (2019.09-2022.09, Natural Science Foundation of Shanxi, Grant No. 201901D111232, 5万元, 5 participants in total, Project Leader: 马艳琴, Professor, Published $x > 3$ SCI papers).

4. Science and Technology Innovation Fund of Shanxi Agricultural University, Taigu, Shanxi, China (Grant No. J142102151; 2018YJ33; J4190207; Project Leader: Mohammad Mehdi Ommati).

5. Received a grant of Yuan 25000 towards international studentship from Shanxi Provincial Government Scholarship (Grant No. J200098201; 31672623; Project Leader: Mohammad Mehdi Ommati).

6. Received a grant of Riyal 120.000.000 towards Member of Iran's National Elites Foundation from AJA University of Medical Sciences, Tehran, Iran (Grant No. 50565.15; Project Leader: Mohammad Mehdi Ommati).

Title: Immune System and Reproduction: Xenobiotics-induced reprotoxicity through mitochondrial impairments, inflammation, autophagy, apoptosis, and oxidative stress related routes (December 2018 to now, Talent research in National Elites Foundation's project commitments, Grant No. 50565.15,

260869元, 2 participants in total, Project Leader: Mohammad Mehdi Ommati, Associate Professor, about 5 SCI papers are preparing).

COURSES TAUGHT EXPERIENCES

- Special English Language- Master's Degree- Biology
- Writing Scientific Manuscripts
- Animal Reproduction and Neuroendocrinology
- Basic and Modern Toxicology
- Developmental Biology (Theoretical and Practical Sections)
- Practical Animal Science
- Reproductive Technologies
- Field Practice in Animal Science
- Practical Poultry Production

✓ English teacher at **F-Learning Education Institute**, Taigu, Shanxi, China (2016-2017).

Techniques Known and Software Skills

- Western Blot
- Fluorescent Staining
- Cell Culture
- Histology (H-E, MDC, TUNNEL, etc.) and Stereology
- ELISA
- Gas Chromatography (GC)
- PCR and RT-PCR
- Agarose Gel Electrophoresis
- Spectrophotometry
- Spectrofluorometer
- Techniques such as Artificial Insemination in Poultry, Goat, Sheep, and Cow
- Proficient in SAS
- SPSS: Statistical analysis
- GraphPad Prism: Biostatistics, curve fitting, and scientific graphing
- ImageJ software: Image (e.g., Histopathology) processing and analysis
- Minitab: Analyzing and presenting research results
- Chemdraw professional 15.0

- Expert in Endnote
- Expert in Adobe Photoshop
- Expert in Microsoft windows
- Familiar with MS-Office
- High-speed data entry
- Collection of Animal Films (Especially for my Field)
- Expert in some programs of Collection of Film such as Ulead Studio, Pinnacle Studio, PhotoStory, etc.
- Can work well with the team, self-motivated, confident, professional, punctual, and reliable.
- Good understanding of laboratory working conditions.
- Animal Husbandry of:
 - Broiler; Turkey, Quail, Partridge, Aquarium fish, Honey bee, Sheep, Frog, Caenorhabditis Elegans (C. Elegans), Fruit flies, Zebrafish.
- I do several exercises such as Football, handball, volleyball, swimming, fitness training, mounting. And I have a certificate from Football Victor.

Certificates and Achievements

- International Course Certificate: "Introduction to Reproduction by Northwestern University on Coursera. The certificate earned on October 23, 2015".
<https://www.coursera.org/account/accomplishments/certificate/9UC3ZWEURZNW>.
- International Course Certificate: "Chicken Behaviour and Welfare by Edinburgh University on Coursera. The certificate earned on Jun 13, 2016".
<https://www.coursera.org/accomplishments>.
- Ovarian verification and transplantation
- Isolation of Spermatogonial stem cells
- Isolation and Culture of Mesenchymal Stem Cells from Dental Pulp, Bone Marrow Mesenchymal Stem Cells, Keratinocyte, Embryo Fibroblast, Menstrual Blood Stromal Stem Cell, Endometrial Mesenchymal Stem Cells, and Adipose tissue Mesenchymal Stem Cells such as Umbilical cord Mesenchymal Stem Cells
- Minitab software
- Scientific articles writing

Master Science Thesis

Seminal characteristics, sperm fatty acids, and blood biochemical attributes in breeder roosters orally administered with sage (*Salvia officinalis*) extract.

Ph.D. Dissertation

Effect of Neonatal Thymectomy on Reproductive and Sperm Mitochondrial Characteristics in Sprague-Dawley Rats.

References

1. Professor Akram Jamshidzadeh, Department of pathology, Medical Research Center (MRC), 25 S. Grand Avenue, Iowa City, IA 52242, ajamshid@sums.ac.ir, (+98) 9173161167.
2. Professor Yong-Jun Qin, Science & Technical Advisor HLPE-CFS (high level panel of expert, CFS), FAO HQ, Roma, Italy, yongjun.qin@fao.org (eurowall@hotmail.nl), Tel +50454(O), 3338122699(M).
3. Professor Mohammad Javad Zamiri, Animal Sciences, Shiraz University, zamiri@shirazu.ac.ir, (+98) 711 2287137.
4. Professor Zilong Sun, Shanxi Key Laboratory of Ecological Animal Science and Environmental Veterinary Medicine, Shanxi Agricultural University, sunzilong2000@163.com, (+86) 184-04969821.
5. Dr. Reza Heidari, Pharmaceutical Sciences Research Center, Shiraz University of Medical Sciences, reza.heidari@hotmail.com, (+98) 917-123-7882.
6. Professor Socorro Retana Márquez, Department of Biology of Reproduction, Biological and Health Sciences Division, Autonomous Metropolitan University, rems@xanum.uam.mx, (+52)5540505395.