

# CURRICULUM VITAE (Last updated: July 1<sup>st</sup>, 2020)

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**Date of Birth:**  
**Place of Birth:** 02<sup>nd</sup> May 1986.  
Tehran, Iran



## About Me (A Summary):

**M**ehdi 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. He was a top student and a member of the National Elites Foundation (INEF) during his education. He moved to Shanxi Agricultural University (SXAU) as a sabbatical position in 2016. He is currently an Assistant Professor of Bioinformatics in the Life Sciences Department of the SXAU. He serves as an Editorial Board Member and Reviewer of more than 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, antioxidants- 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 100 publications in various peer-reviewed journals, two chapters to international books, and two national books, as well as communications in international and domestic congresses, presenting main, oral and poster communications.

## Educational Qualifications

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

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

**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 (Since 2015).

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

**Research Assistant** in Transgenic Technology Research Center of Shiraz University of Medicine (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 (2005-2009).

## Research Techniques and Experiences

- **Reproductive Physiology**
  - Sperm evaluation
  - Ovary and testis verification and transplantation
  - Artificial insemination
  - Reproductive serum biochemical assay
  - Hypothalamic nuclear evaluation
  - Leydig cell isolation
  - Cell culture
- **Reproductive Toxicology**
  - Xenobiotics-induced infertility (Male/Female)
  - Single & Repeated dose toxicity on fertility
  - Embryo-fetal toxicity
  - Teratogenicity
  - Peri -/ post -natal 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**

## Research Articles in Referred Journals

1. **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*. Accepted.

2. **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.
3. **Ommati, M. M.,** Niknahad, H., Farshad, O., Azarpira, N., Heidari, R. (2020). In vitro and in vivo evidence on the role of mitochondrial impairment as a mechanism of lithium-induced nephrotoxicity. Accepted. *Biological Trace Element Research*. DOI: 10.1007/s12011-020-02302-9. (SCI).
4. **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. (SCI).
5. **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. Accepted. *Biologia*. 1-10. DOI: 10.2478/s11756-020-00429-7. (SCI).
6. **Ommati, M. M.,** Amjadinia, A., Mousavi, Kh., Azarpira, N., Jamshidzadeh, A., Heidari, R. (2020). N-acetyl cysteine treatment mitigates biomarkers of oxidative stress in different tissues of cirrhotic rats. *Stress*. 1-40. DOI: 10.1080/10253890.2020.1777970. (SCI).
7. **Ommati, M. M.,** Farshad, O., Abdoli, N., Mousavi, Kh., Azarpira, N., Mahboubi, Z., Niknahad, H., Jamshidzadeh, A., Heidari, R. (2020). Role of mitochondrial impairment in lithium-induced nephrotoxicity: In vitro and in vivo evidence. Accepted. *Biological Trace Element Research*. (SCI).
8. **Ommati, M. M.,** Farshad, O., Mousavi, Kh., Jamshidzadeh, A., Azmoon, M., Heidari, S., Azarpira, N., Niknahad, H., Heidari, R. (2020). Betaine supplementation mitigates intestinal barrier disintegrity and bacterial endotoxin translocation in cirrhotic rats. *PharmaNutrition*. 12 (16). 100179. DOI: 10.1016/j.phanu.2020.100179.
9. **Ommati, M. M.,** Farshad, O., Niknahad, H., Mousavi, Kh., Moein, M., Azarpira, N., Mohammadi, H., Jamshidzadeh, A., Heidari, R. (2020). Oral administration of thiol-reducing agents mitigates gut barrier disintegrity and bacterial

lipopolysaccharide translocation in a rat model of biliary obstruction. *Current Research in Pharmacology and Drug Discovery*. DOI: 10.1016/j.crphar.2020.06.001.

10. **Ommati, M. M.**, Azarpira, N., Khodaei, F., Niknahad, H., Gozashtegan, V., Heidari, R. (2020). Methylene Blue Treatment Enhances Mitochondrial Function and Locomotor Activity in a C57BL/6 Mouse Model of Multiple Sclerosis. *Trends in Pharmaceutical Sciences*. 6(1), 29-42. DOI: 10.30476/TIPS.2020.85962.1044.
11. Farshad, O., **Ommati, M. M (Co-first author)**., Yüzügülen, J., Jamshidzadeh, A., Mousavi, Kh., Ahmadi, Z., Azarpira, N., Ghaffari, H., Najibi, A., Shafaghat, M., Niknahad, H., Heidari, R. (2020). Carnosine mitigates biomarkers of oxidative stress, improves mitochondrial function, and alleviates histopathological alterations in the renal tissue of cholestatic rats. Accepted. *Pharmaceutical Sciences*.
12. Mousavi, Kh., Niknahad, H., Ghalamfarsa, A., Ghanbarinejad, V., Mohammadi, H. R., Ghaffari, H., Azarpira, N., Heidari, R. **Ommati, M. M (Corresponding author)**. (2020). Taurine mitigates cirrhosis-associated heart injury through mitochondria-dependent and antioxidative mechanisms. Accepted. *Clinical and Experimental Hepatology*. (SCI).
13. Khodaei, F., Ahsan, A., Chamanifard, M., Zamiri, M. J. **Ommati, M. M (Corresponding author)**. (2020). Update information on new coronavirus occurrence, drugs, and prediction of a potential receptor: where the passengers are and what they know about this predator. Accepted. *Journal of Biochemical and Molecular Toxicology*. DOI: 10.1002/jbt.22594. (SCI).
14. **Ommati, M. M.**, Heidari, R., Manthari, R. K., Tikka, S. Ch. J., Niu, R., Sun, Z., Sabouri, S., Zamiri, M. J., Zaker, L., Yuana, Q., Wang, J. Zhang, J., Wang, J. (2019). Paternal exposure to arsenic resulted in oxidative stress, autophagy, and mitochondrial impairments in the HPG-S axis of pubertal male offspring. *Chemosphere*. 236: 124325. DOI: 10.1016/j.chemosphere.2019.07.056.
15. **Ommati, M. M.**, Farshad, O., Niknahad, H., Arabnezhad, M. R., Azarpira, N., Mohammadi, H. R., Haghnegahdar, M., Mousavi, Kh., Akrami, Sh., Ghazanfari, E., Jamshidzadeh, A., Heidari, R. (2019). Cholestasis-associated reproductive toxicity in male and female rats: The fundamental role of mitochondrial impairment and oxidative stress. *Toxicology Letters*. Accepted. DOI: 10.1016/j.toxlet.2019.09.009.
16. **Ommati, M. M.**, Heidari, R., Ghanbarinejad, V., Aminian, A., Abdoli, N., Niknahad, H. (2019). The neuroprotective properties of carnosine in a mouse model of

manganism is mediated via mitochondria regulating and antioxidative mechanisms. *Nutritional Neuroscience*. 1-13. DOI: 10.1080/1028415X.2018.1552399. (SCI).

17. **Ommati, M. M.**, Heidari, R., Jamshidzadeh, A., Niknahad, H., Abdoli, N., Azarpira, N., Javanmard, N., Ahmadi, F., Zamiri, M. J., Shirazi Yeganeh, B., Khodaei, F., Mousapour, S. (2019). Carnosine and histidine supplementation blunt lead-induced reproductive toxicity through antioxidative and mitochondria-dependent mechanisms. *Biological Trace Element Research*. Accepted. DOI: 10.1007/s12011-018-1358-2. (SCI).
18. Farshad, O., Heidari, R., Zare, F., Jamshidzadeh, A., Ebrahimi, M., Zamiri, M. J., Zaker, L., **Ommati, M. M (Corresponding author)**. (2019). Effects of cimetidine and N-acetylcysteine on paraquat-induced acute lung injury in rats: A preliminary study. *Toxicological & Environmental Chemistry*, Accepted. DOI: 10.1080/02772248.2019.1606225.
19. **Ommati, M. M (Corresponding author)**., Heidari, R., Zamiri, M. J., Sabouri, S., Zaker, L., Farshad, O., Jamshidzadeh, A., Mousapour, S. (2019). The footprints of oxidative stress and mitochondrial impairment in arsenic trioxide-induced testosterone release suppression in pubertal and mature F1-male Balb/c mice via the down-regulation of 3 $\beta$ -HSD, 17 $\beta$ -HSD, and CYP11a expression. *Biological Trace Element Research*. Accepted. DOI: 10.1007/s12011-019-01815-2.
20. **Ommati, M. M.**, Farshad, O., Jamshidzadeh, A., Heidari, R. (2019). Taurine enhances skeletal muscle mitochondrial function in a rat model of resistance training. *PharmaNutrition*. Accepted. DOI: 10.1016/j.phanu.2019.100161.
21. **Ommati, M. M.**, Tanideh, N., Rezakhaniha, B., Wang, J., Sabouri, S., Vahedi, M., Dormanesh, B., Koohi Hosseinabadi, O., Rahmanifar, F., Moosapour, S., Akhlaghi, A., Heidari, R. and Zamiri, M. J. (2018). Is immunosuppression, induced by neonatal thymectomy, compatible with poor reproductive performance in adult male rats?. *Andrology*, 6: 199-213. DOI:10.1111/andr.12448. (SCI).
22. **Ommati, M. M.**, Heidari, R., Ghanbarinezhad, V., Abdoli, N., Niknahad, H. (2018). Taurine treatment provides neuroprotection in a mouse model of manganism. *Biological Trace Elements Research*. DOI: 10.1007/s12011-018-1552-2. (SCI).
23. **Ommati, M. M (Corresponding author)**., Heidari, R., Jamshidzadeh, A., Zamiri, M. J., Sun, Z., Sabouri, S., Wang, J., Ahmadi, F., Javanmard, N., Seifi, K., Mousapour, S., Shirazi Yeganeh, B. (2017). Dual effects of sulfasalazine on rat sperm characteristics, spermatogenesis, and steroidogenesis in two experimental

models. *Toxicology Letters*. 284 (1). 46-55. doi.org/10.1016/j.toxlet.2017.11.034. (SCI).

24. **Ommati, M. M.**, Jamshidzadeh, A., Niknahad, H., Mohammadi, H. R., Abdoli, N., Sabouri, S., Heidari, R. (2017). N-Acetylcysteine Treatment Blunts Liver Failure-Associated Impairment of Locomotor Activity. *PharmaNutrition*. 5 (4). 141-147. DOI: 10.1016/j.phanu.2017.10.003. (SCI).
25. **Ommati, M. M.**, Heidari, R., Zamiri, M. J., Shojaei, S., Akhlaghi, A., Sabouri, S. (2017). Association of open field behavior with blood and semen characteristics in roosters: an alternative animal model. *Revista Internacional de Andrología*, 16(2), 50-58. DOI: 10.1016/j.androl.2017.02.002. (SCI).
26. Yu, Y., Han, Y., Niu, R., Wang, J., Manthari, R. K., **Ommati, M. M (Corresponding author)**., Sun, Z. (2017). Ameliorative effect of VE, IGF-I, and hCG on the fluoride-induced testosterone release suppression in mice Leydig cells. *Biological Trace Element Research*. Accepted. DOI: 10.1007/s12011-017-1023-1. (SCI).
27. **Ommati, M. M.**, Zamiri, M. J., Akhlaghi, A., Atashi, H., Jafarzadeh, M. R., Rezvani, M. R., Saemi, F. (2013). Seminal Characteristics, sperm fatty acids, and blood biochemical attributes in breeder roosters orally administered with sage (*salvia officinalis*) extract. *Animal Production Science*. 53: 548-554. DOI: 10.1071/an12257. (SCI).
28. **Ommati, M. M.**, Rezvani, M. R., Akhlaghi, A., Atashi, H. (2013). Effect of physical form of diet and ambient temperature on performance and carcass attributes in broilers. *European Poultry Science*. 77(4): 247–253. (SCI).
29. **Ommati, M. M.**, Azarpira, N., Gozashtegan, V., Khodaei, F., Niknahad, H., Heidari, R. Methylene Blue Treatment Enhances Mitochondrial Function and Locomotor Activity in a C57BL/6 Mouse Model of Multiple Sclerosis. Accepted. DOI: 10.30476/TIPS.2020.85962.1044.
30. Niknahad, M., **Ommati, M. M.**, Farshad, O., Moezi, L., Heidari, R. (2020). Manganese-Induced Nephrotoxicity Is Mediated through Oxidative Stress and Mitochondrial Impairment. *Journal of Renal and Hepatic Disorders*. 4(2):1–10. Doi: <http://dx.doi.org/10.15586/jrenhep.2020.66>
31. Mousavi, Kh., Niknahad, H., Ghalamfarsa, A., Mohammad, H. R., Azarpira, N., **Ommati, M. M.**, Heidari, R. (2020). Accepted. *Experimental & Clinical Hepatology*.

32. Heidari, R., Mousavi, Kh., Amin, Sh., **Ommati, M. M.**, Niknahad, H. (2020). N-acetylcysteine Treatment Protects Intestinal Mitochondria in a Surgical Stress Model. *Trends in Pharmaceutical Sciences*. 6(2), 87-96. DOI: 10.30476/TIPS.2020.85960.1042.
33. Ahmadi, A., **Ommati, M. M.**, Niknahad, H., Heidari, R. (2020). Methylene Blue Improves Mitochondrial Function in The Liver of Cholestatic Rats. *Trends in Pharmaceutical Sciences*. 6(2), 73-86. DOI: 10.30476/TIPS.2020.85961.1043.
34. Yuan, J., Li, Q., **Ommati, M. M.**, Niu, R., Wang, J. (2020). Detrimental Effects of Sodium Fluoride on the Expression of Insulin Receptor in the Olfactory Bulb and Hippocampus of Male Mice. *Biological Trace Element*. 1-8. DOI: 10.1007/s12011-020-02053-7. (SCI).
35. Mohammadi, H. R., **Ommati, M. M.**, Farshad, O., Jamshidzadeh, A., Niknahad, H. (2020). Taurine and isolated mitochondria: A concentration-response study. *Drug Discovery and Development*. Accepted. DOI: 10.30476/TIPS.2020.84851.1037.
36. Tikka, S. Ch. J., Manthari, R. K., **Ommati, M. M.**, Niu, R., Sun, Z., Zhang, J., Wang, J. (2020). Immune disruption occurs through altered gut microbiome and NOD2 in arsenic induced mice: Correlation with colon cancer markers. *Chemosphere*. 125791. DOI: 10.1016/j.chemosphere.2019.125791.
37. Yuana, Q., Kong, Y., **Ommati, M. M.**, Tanga, Zh., Li, H., Li, L., Zhao, Ch., Shi, Z., Wang, J. (2019). Bisphenol A-induced apoptosis, oxidative stress and DNA damage in cultured rhesus monkey embryo renal epithelial Marc-145 cells. *Chemosphere*. Accepted. DOI: 10.1016/j.chemosphere.2019.06.125.
38. Wang, J., Yang, J., Cheng, X., Yin, F., Zhao, Y., Zhu, Y., Yan, Z., Khodaei, F., **Ommati, M. M.**, Manthari, R. K., Wang, J. (2019). Influence of calcium supplementation against fluoridemediated osteoblasts impairment in vitro: Involvement of canonical Wnt/ $\beta$ -catenin signaling pathway. *Journal of Agricultural and Food Chemistry*. DOI: 10.1021/acs.jafc.9b03835.
39. Wang, J., Xu, H., Cheng, X., Yang, J., Yan, Z., Ma, H., Zhao, Y., **Ommati, M. M.**, Manthari, R. K., Wang, J. (). Calcium relieves fluoride-induced bone damage through the PI3K/AKT pathway. *Food and Function*. 11(1), 1155-1164. DOI: 10.1039/c9fo02491c.
40. Wang, J., Gao, Y., Cheng, X., Yang, J., Zhao, Y., Xu, H., Zhu, Y., Yan, Z., Manthari, R. K., **Ommati, M. M.**, Wang, J. (2019). GSTO1 acts as a mediator in sodium fluoride-induced alterations of learning and memory related factors



expressions in the hippocampus cell line. *Chemosphere*. 226: 201-209. DOI: 10.1016/j.chemosphere.2019.03.144.

41. Wang, J., Yang, J., Cheng, X., Xiao, R., Zhao, Y., Xu, H., Zhu, Y., Yan, Z., **Ommati, M. M.**, Manthari, R. K., Wang, J. (2019). Calcium alleviates fluoride-induced bone damage by inhibiting endoplasmic reticulum stress and mitochondrial dysfunction. *Journal of Agricultural and Food Chemistry*. DOI: 10.1021/acs.jafc.9b04295.
42. Shafiekhani, M., **Ommati, M. M.**, Azarpira, N., Heidari, R., Salarian, A. A. (2019). Glycine supplementation mitigates lead-induced renal injury in mice. *Journal of Experimental Pharmacology*. 11. 15-22. DOI: 10.2147/jep.s190846
43. Heidari, R., Mandegani, L., Ghanbarinejad, V., Siavashpour, A., **Ommati, M. M.**, Najibi, A., Azarpira, N., Niknahad, H. (2019). Mitochondrial dysfunction as a mechanism involved in the pathogenesis of cirrhosis-associated cholemic nephropathy. *Biomedicine and Pharmacotherapy*, 109. 279-280. DOI: 10.1016/j.biopha.2018.10.104. (SCI).
44. Manthari, R. K., Tikka, Ch. J., **Ommati, M. M.**, Niu, R., Sun, Z., Wang, J., Jianhai, Zh., Wang, J. (2018). Arsenic induces autophagy in developmental mouse cerebral cortex and hippocampus by inhibiting PI3K/Akt/mTOR signaling pathway: involvement of blood-brain barrier's tight junction proteins. *Archives of Toxicology*. 92(11), 3255-3275. DOI: 10.1007/s00204-018-2304-y. (SCI).
45. Manthari, R. K., Tikka, Ch. J., **Ommati, M. M.**, Niu, R., Sun, Z., Wang, J., Jianhai, Zh., Wang, J. (2018). Arsenic Induces Autophagy in Developing Mouse Cerebellum: Involvement of Blood-Brain Barrier's Tight Junction Proteins and/or PI3K/Akt/mTOR Signaling Pathway. *Journal of Agricultural and Food Chemistry*. 66(32), 8602-8614. DOI: 10.1021/acs.jafc.8b02654. (SCI).
46. Sun, Z., Li, S., Yu, Y., Chen, H., **Ommati, M. M.**, Manthari, R. K., Niu, R., Wang, J. (2017). Alterations in epididymal proteomics and antioxidant activity of mice exposed to fluoride. *Archives of Toxicology*. 92 (1). 169-180. DOI: 10.1007/s00204-017-2054-2. (SCI).
47. Heidari, R., Ahmadi, N., Mohammadi, H., **Ommati, M. M.**, Azarpira, N., Niknahad, H. (2018). Mitochondrial dysfunction and oxidative stress are involved in the mechanism of methotrexate-induced renal injury and electrolytes imbalance. *Biomedicine & Pharmacotherapy*. 107, 834-840. DOI: 10.1016/j.biopha.2018.08.050 (SCI).

48. Heidari, R., Jamshidzadeh, A., **Ommati, M. M.**, Rashidi, E., Khodaei, F., Sadeghi, A., Hosseini, A., Niknahad, H. (2018). Ammonia-induced mitochondrial impairment is intensified by manganese co-exposure: Relevance to the management of subclinical hepatic encephalopathy and cirrhosis-associated brain injury. *Clinical and Experimental Hepatology*. 5 (2): 109-117. DOI: 10.5114/ceh.2019.85071. (SCI).
49. Heidari, R., Ghanbarinejad, V., **Ommati, M. M.**, Jamshidzadeh, A., Niknahad, H. (2018). Mitochondria protecting amino acids: Application against a wide range of mitochondria-linked complications. *PharmaNutrition*. 6 (4): 180-190. DOI: 10.1016/j.phanu.2018.09.001.
50. Heidari, R., Behnamrad, Sh., Khodami, Z., **Ommati, M. M.**, Azarpira, N., Vazin, A. (2018). The nephroprotective properties of taurine in colistin-treated mice is mediated through the regulation of mitochondrial function and mitigation of oxidative stress. *Biomedicine & Pharmacotherapy*, 109. 103-111. DOI: 10.1016/j.biopha.2018.10.093. (SCI).
51. Heidari, R., Jamshidzadeh, A., Ghanbarinejad, V., **Ommati, M. M.**, Niknahad, H. (2018). Taurine Supplementation Abates Cirrhosis-Associated Locomotor Dysfunction. *Clinical and Experimental Hepatology*. 4(2): 72-82. DOI: 10.5114/ceh.2018.75956. (SCI).
52. Heidari, R., Ghanbarinejad, V., Mohammadi, H., Ahmadi, A., **Ommati, M. M.**, Abdoli, N., Aghaei, F., Esfandiari, A., Azarpira, N., Niknahad, H., (2018). Mitochondria Protection as a Mechanism Underlying the Hepatoprotective Effects of Glycine in Cholestatic Mice. *Biomedicine & Pharmacotherapy*. 97: 1086- 1095. DOI: 10.1016/j.biopha.2017.10.166. (SCI).
53. 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.
54. Heidari, R., Niknahad, H., Sadeghi, A., Mohammadi, H., Ghanbarinejad, **Ommati, M. M.**, Hosseini, A., Azarpira, N., Khodaei, F., Farshad, O., Rashidi, E., Siavashpour, A., Najibi, A., Ahmadi, A., Jamshidzadeh, A. (2018). Betaine treatment protects liver through regulating mitochondrial function and counteracting oxidative stress in acute and chronic animal models of hepatic injury. *Biomedicine & Pharmacotherapy*. 103: 75-86. DOI: 10.1016/j.biopha.2018.04.010.

55. Heidari, R., **Ommati, M. M.**, Alahyari, S., Azarpira, N., Niknahad, H. (2018). Amino acid-containing Krebs-Henseleit buffer protects rat liver in a long-term - organ perfusion model. 24: 168-179. doi: 10.15171/PS.2018.25.
56. Heidari, R., Mohammadi, H., Ghanbarinejad, V., Ahmadi, A., **Ommati, M. M.**, Niknahad, H., Jamshidzadeh, A., Azarpira, N., Abdoli, N. (2018). Proline Supplementation Mitigates the Early Stage of Liver Injury in Bile Duct Ligated Rats. *Journal of Basic and Clinical Physiology and Pharmacology*. Accepted. DOI: 10.1515/jbcpp-2017-0221.
57. Heidari, R., Jamshidzadeh, A., Niknahad, H., **Ommati, M. M.**, Ahmadi, A., Ghanbarinejad, V. (2018). Carnosine Protects Isolated Brain Mitochondria against Manganese: Implication in the Management of Cirrhosis-Associated Central Nervous System Injury. *PharmaNutrition*. Submitted.
58. Ghanbarinejad, V., Ahmadi, N., **Ommati, M. M.**, Heidari, R., Jamshidzadeh, A. (2018). Taurine Prevents Mitochondrial Membrane Permeabilization and 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).
59. Heidari, R., Jamshidzadeh, A., Niknahad, H., Zarei, M., **Ommati, M. M.**, Khodaei, F. (2017). Carnosine protects brain mitochondria under hyperammonemic conditions: relevance to hepatic encephalopathy treatment. *PharmaNutrition*. 5(2): 58-63. DOI: 10.1016/j.phanu.2017.02.004.
60. Jamshidzadeh, A., Heidari, R., Abasvali, M., Zarei, M., **Ommati, M. M.**, Abdoli, N., Khodaei, F., Yeganeh, Y., Jafari, F. (2017). Taurine treatment preserves brain and liver mitochondrial function in a rat model of fulminant hepatic failure and hyperammonemia. *Biomedicine & Pharmacotherapy*. 86:514-520. DOI: 10.1016/j.biopha.2016.11.095. (SCI).
61. Niknahad, H., Jamshidzadeh, A., Heidari, R., Zarei, M., **Ommati, M. M.** (2017). Ammonia-induced mitochondrial dysfunction in isolated brain and liver mitochondria and the effect of Taurine administration: relevance to hepatic encephalopathy treatment. *Clinical and Experimental Hepatology*. 3 (3): 141–151. DOI: 10.5114/ceh.2017.68833. (SCI).
62. Heidari, R., Moezi, L., Asadi, B., **Ommati, M. M.**, Azarpira, N. (2017). Hepatoprotective effect of Boldine in a bile duct ligated rat model of cholestasis/cirrhosis. *PharmaNutrition*. 5(3): 109-117. DOI: 10.1016/j.phanu.2017.07.001. (SCI).

63. Naghshvarian, M., Zarrindast, M. R., Mehr, S. E, **Ommati, M. M.**, Sajjadi, S. F. (2017). Effect of exercise and morphine on psychological and physical dependencies, BDNF and TrkB gene expression in rat's hippocampus. *Pakistan Journal of Medicine Science*. 33(3). Doi: 10.12669/pjms.333.12342. (SCI).
64. Niknahad, H., Heidari, R., Mohammadzadeh, R., **Ommati, M. M.**, Khodaei, F., Azarpira, N., Abdoli, N., Zarei, M., Asadi, B. (2017). Sulfasalazine induces mitochondrial dysfunction and renal injury. *Renal Failure*. 39(1):745-753. DOI: 10.1080/0886022x.2017.1399908. (SCI).
65. Heidari, R., Abdoli, N., **Ommati, M. M.**, Jamshidzadeh, A., Niknahad, H. (2018). Mitochondrial impairment induced by chenodeoxycholic acid: The protective effect of taurine and carnosine supplementation. *Trends in Pharmaceutical Sciences*. 4 (2).
66. Heidari, R., Ghanbarinejad, V., Mohammadi, H. R., Ahmadi, A., **Ommati, M. M.**, Abdoli, N., Esfandiari, A., Aghaei, F., Azarpira, N., Niknahad, H. (2017). Dithiothreitol Supplementation Mitigates Hepatic and Renal Lesions in Bile Duct Ligated Mice: Potential Application in the Treatment of Cholestasis-Associated Complications. *Biomedicine & Pharmacotherapy*. 99, 1022-1032. DOI: 10.1016/j.biopha.2018.01.018. (SCI).
67. Jamshidzadeh, A., Heidari, R., Latifpour, Z., **Ommati, M. M.**, Abdoli, N., Mousavi, S., Azarpira, N., Zarei, M., Asadi, B., Abasvali, M., Yeganeh, Y., Jafari, F., Saeedi, A., Najibi, A., Mardani, E. (2016). Carnosine ameliorates liver fibrosis and hyperammonemia in cirrhotic rats. *Clinics and Research in Hepatology and Gastroenterology*. 41(4): 424-434. DOI: 10.1016/j.clinre.2016.12.010. (SCI).
68. Niknahad, H., Jamshidzadeh, A., Heidari, R., **Ommati, M. M.**, Jafari, F., Zarei, M., Asadi, B. (2016). The postulated hepatotoxic metabolite of Methimazole causes mitochondrial dysfunction and energy metabolism disturbances in liver. *Pharmaceutical Sciences*. 22(4): 217-226. (SCI).
69. Niknahad, H., Jamshidzadeh, A., Heidari, R., Hosseini, Z., Mobini, K., Khodaei, F., **Ommati, M. M.**, Abdoli, N., Keshavarz, N., Bazyari, M., Najibi, A. (2016). Paradoxical effect of Methimazole on liver mitochondria: in vitro and invivo. *Toxicology Letters*. 259: 108-115. DOI: 10.1016/j.toxlet.2016.08.003. (SCI).
70. Heidari, R., Abazari, F., Ramezani, M., Jamshidzadeh, A., Khodaei, F., **Ommati, M. M.**, Ayarzadeh, M., Firuzi, R., Saeedi, A., Azarpira, N., Najibi, A. (2016). Antimalarial drugs-induced hepatic injury in rats and the protective role of Carnosine. *Pharmaceutical Sciences*. 22 (3): 170-180. (SCI).

71. 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).
72. Heidari, R., Niknahad, H., Jamshidzadeh, A., Mardani, E., **Ommati, M. M.**, Azarpira, N., Khodaei, F., Zarei, A., Ayarzadeh, M., Mousavi, S., Abdoli, N., Shirazi Yeganeh, B., Saeedi, A., Najibi, A. (2016). Effect of Taurine on chronic and acute liver injury: Focus on blood and brain ammonia. *Toxicology Reports*. 3: 870-879. DOI: 10.1016/j.toxrep.2016.04.002. (SCI).
73. Heidari, R., Jamshidzadeh, A., Niknahad, H., Safari, F., Azizi, H., Abdoli, N., **Ommati, M. M.**, F., Zarei, Saeedi, A., Najibi, A. (2016). The hepatoprotection provided by Taurine and Glycine against antineoplastic drugs-induced liver injury in an *ex-vivo* model of normothermic recirculating isolated perfused rat liver. *Trends in Pharmaceutical Sciences*. 2(1): 59-76.
74. 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.
75. 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. *Journal of Poultry Science*. 91(9):2310–2315. DOI: 10.3382/ps.2012-02304. (SCI).
76. Rezvani, M. R., Rodehutsord, M., **Ommati, M. M.** (2010). Efficacy of phytase preparations to improve P availability in young turkeys. *Iran Agricultural Research*, Online: [http://iar.shirazu.ac.ir/article\\_139\\_29.html](http://iar.shirazu.ac.ir/article_139_29.html).
77. Heidari, R., Ahmadi, A., Mohammadi, H., **Ommati, M. M.**, Azarpira, N., Niknahad, H. (2018). Mitochondrial dysfunction as a mechanism for methotrexate-induced renal injury and electrolytes imbalance. Submitted to *Advanced Pharmaceutical Bulletin*.

### Papers Presented at National and Overseas Conferences

#### Overseas Conferences:

1. 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 14-16<sup>th</sup>, 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”
2. 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 14-16<sup>th</sup>, July 2017.  
**Title:** “Is immunosuppression, induced by neonatal thymectomy, compatible with poor reproductive performance in adult male rats?”
3. 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 09-12<sup>th</sup>, October 2016.  
**Title:** “Livestock production systems and trends in livestock Industry in Iran”
4. Delivered an invited talk in organized by College of Animal Science and Veterinary Medicine, Shanxi Agricultural University, Taigu, Shanxi Province, China during 09-12<sup>th</sup>, 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 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> national seminar of animal production in hot climates, September 7, 2011, Shahid Bahonar University of Kerman, Kerman, Iran, (In Persian with English Abstract).
5. Saemee, F., Zamiri, M. J., Akhlaghi, A., **Ommati, M. M.**, Dadpasand, M., Atashi, H. (2012). Effect of age on precaecal protein digestibility of rapeseed meal and carcass characteristics in British United Turkey. Proc. 5<sup>th</sup> Iranian Congress on Animal Science. Esfahan. p.168-172 (In Persian with English Abstract).
6. Saemee, 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 1<sup>st</sup> Kerman Congress on Animal Science.
7. Saemee, 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 1<sup>st</sup> 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 1<sup>st</sup> 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. 4<sup>th</sup> 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. 4<sup>th</sup> 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 caecectomised laying hens. Proc. 4<sup>th</sup> 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. 4<sup>th</sup> 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

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

1. **Wu Peizhi** (Cholestasis-Associated Reproductive Toxicity in Male Mice: The Fundamental Role of Oxidative Stress).
2. **Yang Shung** (Ovatoxicity in BDL Female Mice via Oxidative Stress Indices).
3. **Zhang Mengjie** (Detrimental Effects of Hepatic Encephalopathy on Brain and Liver Mitochondrial Function in A Mouse Model of Fulminant Hepatic Failure and Hyperammonemia).
4. **Yang Heming** (Oxidative Stress Involved in the Pathogenesis of Cholestasis-Associated Cholemic Nephropathy).
5. **Bai Bin** (Intestinal Barrier Disintegrity and Bacterial Endotoxin Translocation in Cirrhotic rats through Oxidative Stress Related Routes).
6. **Shiva Akrami**, Pharm.D. (Cholestasis-associated reproductive toxicity in female rats; **Registration code (RC: 97-01-36-17516)**).
7. **Omid Farshad**, Pharm.D. (Mechanisms of arsenic-induced reproductive toxicity; **(RC: 97-01-36-17549)**).
8. **Fatemeh Ahmadi**, Pharm.D. (Effect of carnosine and histidine on lead-induced damage on reproductive function in male rats; **(RC: 95-01-36-11290)**).



9. **Nafiseh Javanmard**, Pharm.D. (Effects of Sulfasalazine on Rat Sperm: In vitro and In vivo; (RC: 94-01-36-11083)).
10. 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)).
11. Pharm.D. (Effect of methimazole metabolite, N-methylthiourea on isolated rat liver mitochondria; (RC: 95-01-36-11415)).
12. Pharm.D. (Evaluating the role of taurine in a rat model of fulminant liver failure; (RC: 93-01-36-7218)).
13. **Anahita Marhoonian**, Pharm.D. (In vitro evaluation of manganese- induced toxicity in primary cultured LCs; (RC: 97-01-36-16776)).
14. **Aysooda Arazi**, Pharm.D. (Effect of lithium on reproductive parameters and sperm abnormalities (In-vivo); (RC: 97-01-36-18761)).
15. **Fereshteh Khoshghadam**, Pharm.D. (Effect of probiotics on male reproductive system; (RC: 96-01-36-16455)).
16. **Meghdad Khalili**, Pharm.D. (Nano-tubes and reproductive toxicity; (RC: 97-01-36-181816)).

**Advisor- Major Contribution:** [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 Dithiotriteritol 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)**).

### Honors and Achievements

- A distinguished student in B.Sc. (among 42), Mohaghegh University (2006-2010).
- A distinguished student in M.Sc. (among 4), Shiraz University (2010-2012).
- Gifted student at B.Sc. level.
- Member of Iran's National Elites Foundation (Number: 50565.15; Date: 2013/09/14).
- 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>

## Editorial Board and Reviewer

### Editor-In-Chief in:

- International Journal of Reproductive Medicine and Sexual Health (<https://www.raftpubs.com/International-Journal-of-Reproductive-Medicine-and-Sexual-Health/Editorial-board.php>).

### Topic Editor:

- 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>).

### 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/in-vitro-fertilization/editorialBoard.php>).
- Reproductive Immunology: Open Access (<http://reproductive-immunology.imedpub.com/editors.php>).
- Advanced Emergency Medicine (<http://aem.usp-pl.com/index.php/aem/about/editorialTeam>).
- 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://scientificexhangers.com/sejgrrb.html>).
- International journal of ethology (<https://www.openaccesspub.org/manuscriptzone/>).
- 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>).

### Grant (s)/ Fellowship Received

- Outstanding doctors volunteering to work in Shanxi Province (Grant No. K271999031).
- Science and Technology Innovation Fund of Shanxi Agricultural University, Taigu, Shanxi, China (Grant No. 2018YJ33).
- Received a grant of Yuan 25000 towards international studentship from Shanxi Provincial Government Scholarship (Grant No. J200098201; 31672623).
- Received a grant of Riyal 12.000.000 towards Member of Iran's National Elites Foundation from AJA University of Medical Sciences, Tehran, Iran (Grant No. 50565.15).

### COURSES TAUGHT

- Basic and Modern Toxicology
- Developmental Biology
- 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).

### Book

- Book- Chapter 37: Amino Acids Ameliorate Heavy Metals Induced Oxidative Stress In Male/Female Reproductive Tissue. Toxicology Book, Elsevier, Vinood Patel (Editor).
- Book- Chapter 38: Betaine, Heavy Metal Protection, Oxidative Stress, and the Liver. Toxicology Book, Elsevier, Vinood Patel (Editor).
- Heat Stress And Animal Productivity (In Persian).
- Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets (In Persian).

### Techniques Known (Software skills)

- Western Blot
- Fluorescent Stainings
- 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 and Graphpad prism programs
- ImageJ software
- 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 and so on.
  - Can work well with the team, self-motivated, confident, professional, punctual and reliable.
  - Good understanding of laboratories working conditions.
  - Animal Husbandry of:
    - Broiler; Turkey, Quail, Partridge, Aquarium fish, Honey bee, Sheep, Frog, *Caenorhabditis elegans* (*C. elegans*), Fruit flies, Zebra fish.
- I do several exercises such as Football, handball, volleyball, swimming, fitness training, mounting. And I have a certificate of Football Victor.

### **Certificates and Achievements**

- 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.

### **Research attachment (Sabbatical Leave)**

Shanxi key laboratory of environmental veterinary medicine and department of clinical veterinary medicine in the college of animal science and technology at Shanxi agricultural university, Shanxi, China.