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Biography

Reza Heidari is a researcher in the Pharmaceutical Sciences Research Center (PSRC), Department of Pharmacology and Toxicology, College of Pharmacy, Shiraz University of Medical Sciences. Until September 2013, he was a Senior Researcher in PSRC. He served as the Vice-Chancellor of Research Affairs of PSRC (2015-present). Dr. Heidari received a Pharm.D degree from College of Pharmacy, Shiraz University of Medical Sciences, and a Ph.D. in Toxicology from the Tabriz University of Medical Sciences. His work is in the areas of mechanistic toxicology, cholestasis/cirrhosis and their associated complications, hepatic encephalopathy and hyperammonemia, hepatotoxicology, drug-induced liver injury (DILI), xenobiotics-induced mitochondrial impairment, and cellular responses to oxidative stress. He has a particular interest in the role of mitochondrial impairment in the pathogenesis of human diseases and xenobiotics-

induced mitochondrial dysfunction. His work with the cholestatic/cirrhotic animals demonstrated several cellular and molecular mechanisms for the complications associated with these diseases. These works might lead to finding therapeutic options against these complications. He also repeatedly investigated the role of synthetic and natural materials in the process of tissue fibrosis (e.g., in wound healing or cirrhosis). Dr. Heidari received several awards during his working experience, including top researcher in 2017, Shiraz University of Medical Sciences; Top University Researcher, 2019, Shiraz University of Medical Sciences; and Incentive Top Researcher Grade 2019, Shiraz University of Medical Sciences. Reza Heidari is the Associate Topic Editor at Reproductive Toxicity and Xenobiotic-induced Animal Infertility in the journal of Frontiers in Veterinary Science. Dr. Heidari is also a member of the Iran Pharmacists Association (2011-Present). His current research interests include discovering the mechanisms (with a focus on mitochondrial impairment and oxidative stress) involved in human diseases and the development of safe and clinically-applicable therapeutic options against these complications.

Educational Background

2009-2013: Ph.D. Student of Toxicology (*Tabriz University of Medical Sciences –Tabriz-Iran*)

2003-2009: Pharm. D. Student (*Shiraz University of Medical Sciences–Shiraz-Iran*)

1999-2003: High School (*Farhangian High School –Fars province – Nurabad mamasani-Iran*)

Research Techniques and Experiences

1. Animal Surgery (Guinea pig, Hamster, Rat, Mice)
2. Bile Duct Ligation (BDL) for Cirrhosis/Cholestasis Induction in Rat / Mice/ Hamster
3. Hepatocytes Isolation from Rat / Mice/ Hamster
4. Mitochondrial Isolation from Different Tissues for Assessing Xenobiotics-Induced Mitochondrial Dysfunction
5. *In vivo* Evaluation of Xenobiotics-Induced Hepatotoxicity/Nephrotoxicity
6. Splenic Transposition as A Model for Hyperammonemic Encephalopathy
7. Experimental Models of Acute Liver Failure (ALF), Hepatic Encephalopathy, and Hyperammonemia
8. Evaluating animals (mouse and rat) Behavior and Locomotor Activities in Hepatic Encephalopathy and Hyperammonemia Models
9. Isolated Perfused rat liver (IPL) as an *Ex vivo* Model for Assessing Xenobiotics-Induced Hepatotoxicity
10. Collection of Broncho-Alveolar Fluid by Tracheotomy (Hamster, Rat, Mice)- Used for investigating pulmonary complications (e.g., associated with other diseases)
11. “Drug-Inflammation Interaction” as a Model for Evaluating Idiosyncratic Drug-Induced

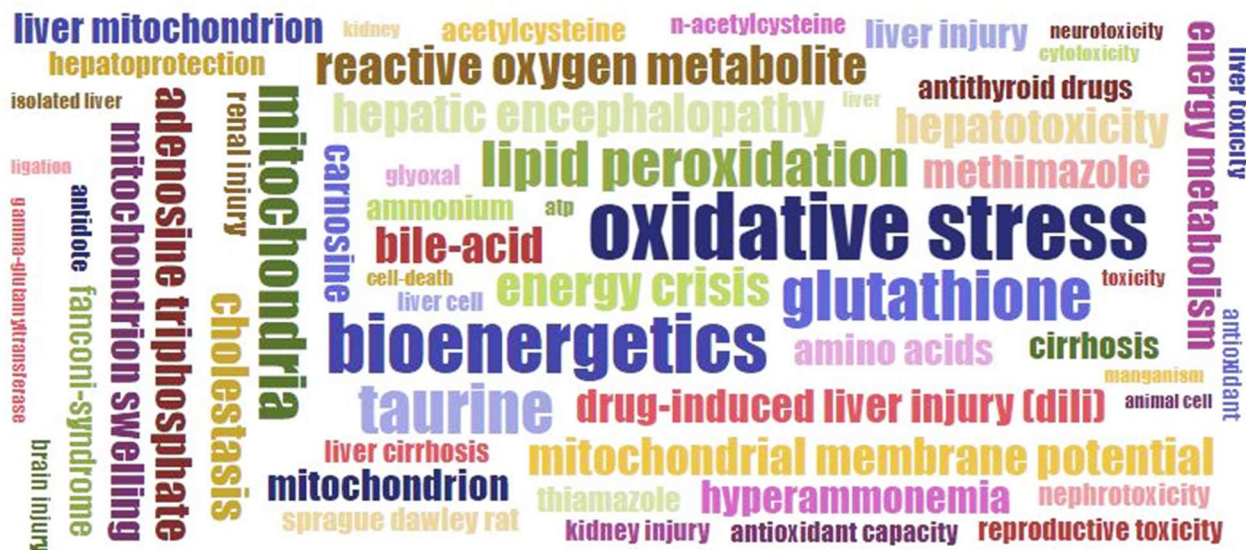
Liver Injury (IDILI)

12. Drug-Induced Liver Injury (DILI)
13. Gonadectomy, Thyroidectomy, Nephrectomy, and Tracheotomy Surgery in Rats and Mice
14. Unilateral Ureteral Obstruction (UUO) as an Animal Model of Progressive Renal Disease
15. Ischemia-Reperfusion –Induced Tissue Injury Model (Kidney and Liver) in Mice and Rats
16. Bio-analyzers; for assessing biochemistry of animals' biological samples (Serum, Plasma, Urine, etc.); HPLC; Fluorimeter/Luminometer Assessments; qPCR, Western blot, Gel Electrophoresis; UV/Visible Spectroscopy; Fluorescence Microscopy; Plate Readers;

Teaching Experiences:

- ✓ Basic and Clinical Pharmacology (Pharm.D. students, Ph.D. Students)
- ✓ Basic Toxicology (Pharm.D. students, Ph.D. students)
- ✓ Supervisor and advisor of more than 115 Pharm.D thesis, 15 Ph.D. thesis, and 8 Toxicology MSc Thesis

Research Area (Graphical):



Publications:

Book Chapters:

1. **Reza Heidari** and Hossein Niknahad*, The Role and Study of Mitochondrial Impairment and Oxidative Stress in Cholestasis, Mathieu Vinken (ed.), *Experimental Cholestasis Research*, Methods in Molecular Biology, https://doi.org/10.1007/978-1-4939-9420-5_8; Springer Science+Business Media, LLC, part of Springer Nature 2019.
2. Mohammad Mehdi Ommati, **Reza Heidari***. Amino acids ameliorate heavy metals-induced oxidative stress in male/female reproductive tissue", Chapter 38, *Toxicology: Oxidative Stress and Dietary Antioxidants* (Ed. Vinood Patel). 2021. Elsevier Publications. <https://doi.org/10.1016/B978-0-12-819092-0.00037-6>

3. Mohammad Mehdi Ommati, **Reza Heidari***. Betaine, heavy metal protection, oxidative stress, and the liver, Chapter 37, In Book: *Toxicology: Oxidative Stress and Dietary Antioxidants* (Ed. Vinood Patel). 2021. Elsevier Publications.
DOI: <https://doi.org/10.1016/B978-0-12-819092-0.00038-8>
4. **Reza Heidari**, Mohammad Mehdi Ommati, Hossein Niknahad. Mitochondria as Biosynthetic Centers and Targeted Therapeutics. 2021. Chapter 2. In Book: *Mitochondrial Metabolism*. Elsevier Publications. DOI: <https://doi.org/10.1016/B978-0-12-822416-8.00008-7>
5. **Reza Heidari**, Mohammad Mehdi Ommati, Hossein Niknahad. Ammonia. 2022. In Book: *Mitochondrial Intoxication*. Elsevier Publications.
6. **Reza Heidari**, Mohammad Mehdi Ommati, Hossein Niknahad. Drugs-induced mitochondrial impairment: Mechanisms and testing systems. 2022. In Book: *Mitochondrial Intoxication*. Elsevier Publications.
7. **Reza Heidari**, Mohammad Mehdi Ommati. Gastroenterological Aspects of Nanopharmacology. In Book: *Advances in Nanopharmacology*. Bentham Publications.
8. Mohammad Mehdi Ommati, Socorro Retana-Márquez, Asma Najibi, **Reza Heidari***. Advances in Nanopharmacology: Focus on Reproduction, Endocrinology, Developmental Alterations, and Next Generational Effects. In Book: *Advances in Nanopharmacology*. Bentham Publications.
9. **Reza Heidari***. Hyperinsulinism-Hyperammonemia syndrome. In Book: *Genetic Syndromes*. Elsevier Publications.
10. **Reza Heidari***. Hyperinsulinism-Hyperammonemia syndrome. Mitochondrial Complex III Deficiency, Nuclear Types 1-9 (MC3DN). In Book: *Genetic Syndromes*. Elsevier Publications.

Reviews:

- 8.
7. Issa Sadeghian, **Reza Heidari**, Sara Sadeghian, Mohammad Javad Raei, Manica Negahdaripour. Potential of cell-penetrating peptides (CPPs) in delivery of antiviral therapeutics and vaccines. *European Journal of Pharmaceutical Sciences*. 2022.
DOI: <https://doi.org/10.1016/j.ejps.2021.106094>
6. Mohammad Mehdi Ommati, Ali Mobasheri, **Reza Heidari***. 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*. 2021.
DOI: <https://doi.org/10.1002/jbt.22795>
5. **Reza Heidari***. Brain mitochondria as potential therapeutic targets for managing hepatic encephalopathy. *Life Sciences*. 2019, 65-80. DOI: <https://doi.org/10.1016/j.lfs.2018.12.030>
4. **Reza Heidari***. The footprints of mitochondrial impairment and cellular energy crisis in the pathogenesis of xenobiotics-induced nephrotoxicity, serum electrolytes imbalance, and Fanconi's syndrome: A comprehensive review. *Toxicology*. 2019, 1-31.

DOI: <https://doi.org/10.1016/j.tox.2019.05.002>

3. Elham Ahmadian, Peter S Pennefather, Aziz Eftekhari, **Reza Heidari**, Mohammad Ali Eghbal. Role of renin-angiotensin system in liver diseases: an outline on the potential therapeutic points of intervention. *Expert Review of Gastroenterology & Hepatology*. 2016 10(11); 1279-1288. DOI: <https://doi.org/10.1080/17474124.2016.1207523>
2. **Reza Heidari***, Hossein Niknahad, Akram Jamshidzadeh, Mohammad Ali Eghbal, Narges Abdoli. An overview on the proposed mechanisms of antithyroid drugs-induced liver injury. *Advanced Pharmaceutical Bulletin*. 2015, 5(1), 1-1.
DOI: <https://doi.org/10.5681/apb.2015.001>
1. **Reza Heidari***, Hossein Niknahad, Akram Jamshidzadeh, Narges Abdoli. Factors affecting drug-induced liver injury: Antithyroid drugs as instances. *Clinical and Molecular Hepatology*. 2014; 20:237-248. DOI: <http://dx.doi.org/10.3350/cmh.2014.20.3.237>

Translation(s):

1. We translated the book “**Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets, Second Edition; CRC Press, Author: Urs A. Boelsterli, ISBN: 9780849372728**” in Persian (Reza Heidari, Mohammad Mehdi Ommati, Haghshenas Publications, Rasht, Iran). This book is used as a resource for educating Toxicology (MSc/PhD) and Pharm D students.

Original Research:

154.

153. Haniyeh Najafi, Samira Sadat Abolmaali, **Reza Heidari**, Hadi Valizadeh, Mahboobeh Jafari, Ali Mohammad Tamaddon, Negar Azarpira. Nitric oxide releasing nanofibrous Fmoc-dipeptide hydrogels for amelioration of renal ischemia/reperfusion injury. 2021. *Journal of Controlled Release*. DOI: <https://doi.org/10.1016/j.jconrel.2021.07.016>
152. Pouria Mobasher; Mohammad Mehdi Ommati; Asma Najibi; Amin Reza Akbarizadeh Younes Ghasemi; **Reza Heidari ***. Searching for alternative toxicology testing systems: The response of isolated mitochondria from *Saccharomyces cerevisiae*, potato tuber, and mouse liver to a toxic insult. *Trends in Pharmaceutical Sciences*. DOI: <https://doi.org/10.30476/TIPS.2021.91544.1102>
151. Khadijeh Mousavi, Hossein Niknahad, Hossein Niknahad, Huifeng Li, Zhipeng Jia, Ram Kumar, Yangfei Zhao, Xiong Shi, Yuanyu Chen, Asrin Ahmadi, Negar Azarpira, Bahman Khalvati, Mohammad Mehdi Ommati, **Reza Heidari ***. The activation of nuclear factor-E2-related factor 2 (Nrf2)/heme oxygenase-1 (HO-1) signaling blunts cholestasis-induced liver and kidney injury. 2021. *Toxicology Research*. DOI: <https://doi.org/10.1093/toxres/tfab073>
150. Vahid Ghanbarinejad, Mohammad Mehdi Ommati, Zhipeng Jia, Omid Farshad, Akram Jamshidzadeh, **Reza Heidari ***. Disturbed Mitochondrial Redox State and Tissue Energy Charge in Cholestasis. 2021. *Journal of Biochemical and Molecular Toxicology*.
DOI: <https://doi.org/10.1002/jbt.22846>
149. Mohammad Mehdi Ommati, Sara Hojatnezhad, Ram Kumar Manthari, Zhipeng Jia, Asma Najibi,

- Amin Reza Akbarizadeh, Issa Sadeghian, Omid Farshad, Negar Azarpira, Hossein Niknahad, **Reza Heidari***. Pentoxifylline mitigates cholestasis-related cholemic nephropathy. *Clinical and Experimental Hepatology*. 2021.
148. Hossein Niknahad, **Reza Heidari**, Asieh Hashemi, Akram Jamshidzadeh, Marzieh Rashedinia. Antidotal effect of dihydroxyacetone against phosphine poisoning in mice. 2021. *Journal of Biochemical and Molecular Toxicology*. DOI: <http://doi.org/10.1002/jbt.22897>
147. **Reza Heidari**, Seyedeh-Masoumeh Taghizadeh, Mahboubeh Karami-Darehnanranji, Esmaeil Mirzaei, Aydin Berenjjan, Alireza Ebrahiminezhad. Application of FeOOH nanorods as a novel nano-based iron supplement: An in vivo study. 2021. *Biological Trace Element Research*.
146. Ehsan Mirzaei, Golnar Sabetian, Mansoor Masjedi, **Reza Heidari**, Mahtabalsadat Mirjalili, Amirreza Dehghanian, Afsaneh Vazin. The effect of silymarin on liver enzymes and antioxidant status in trauma patients in the intensive care unit: a randomized double blinded placebo-controlled clinical trial. *Clinical and Experimental Hepatology*. 2021. DOI: <https://doi.org/10.5114/ceh.2021.107067>
145. Asrin Ahmadi, Hossein Niknahad, Huifeng Li, Ali Mobasheri, Ram Kumar Manthari, Negar Azarpira, Khadijeh Mousavi, Bahman Khalvati, Yangfei Zhao, Jianyu Sun, Yuqi Zong, Mohammad Mehdi Ommati, **Reza Heidari ***. The inhibition of NF κ B signaling and inflammatory response as a strategy for blunting bile acid-induced hepatic and renal toxicity. *Toxicology Letters*. 2021. DOI: <https://doi.org/10.1016/j.toxlet.2021.05.012>
144. Abdoli N, Sadeghian I, Azarpira N, Ommati MM, **Heidari R***. Taurine mitigates bile duct obstruction associated cholemic nephropathy: effect on oxidative stress and mitochondrial parameters. *Clinical and Experimental Hepatology*. 2021. DOI: <https://doi.org/10.5114/ceh.2021.104675>
143. Abedi M, Abolmaali SS, **Heidari R**, Mohammadi Samani S, Tamaddon AM. Hierarchical mesoporous zinc-imidazole dicarboxylic acid MOFs: Surfactant-directed synthesis, pH-responsive degradation, and drug delivery. *International Journal of Pharmaceutics*. 2021. DOI: <https://doi.org/10.1016/j.ijpharm.2021.120685>
142. Vahid Ghanbarinejad, Akram Jamshidzadeh, Bahman Khalvati, Omid Farshad, Huifeng Li, Xiong Shi, Yuanyu Chen, Mohammad Mehdi Ommati, **Reza Heidari ***. Apoptosis-inducing factor plays a role in the pathogenesis of hepatic and renal injury during cholestasis. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 2021. DOI: <https://doi.org/10.1007/s00210-020-02041-7>
141. Omid Farshad, Mohammad Mehdi Ommati, Jale Yüzügülen, Akram Jamshidzadeh, Khadijeh Mousavi, Zahra Ahmadi, Negar Azarpira, Hasti Ghaffari, Asma Najibi, Marzieh Shafaghat, Hossein Niknahad, **Reza Heidari ***. Carnosine mitigates oxidative stress, improves mitochondrial function, and alleviates histopathological changes in the kidney of cholestatic rats. *Pharmaceutical Sciences*. 2020. DOI: <https://doi.org/10.34172/PS.2020.60>
140. Khadijah Mousavi, Ram Kumar Manthari, Asma Najibi, Zhipeng Jia, Mohammad Mehdi Ommati, **Reza Heidari ***. Mitochondrial dysfunction and oxidative stress are involved in the mechanism of tramadol-induced renal injury. *Current Research in Pharmacology and Drug Discovery*. 2021. DOI: <https://doi.org/10.1016/j.crphar.2021.100049>
139. Elaheh Entezar-Almahdi, **Reza Heidari**, Soheila Ghasemi, Soliman Mohammadi-Samani, Fatemeh

- Farjadian. Integrin Receptor-Mediated pH-responsive nano-hydrogel Based on Histidine-modified poly (aminoethyl methacrylamide) as Targeted cisplatin Delivery System. *Journal of Drug Delivery Science and Technology*. 2021. DOI: <https://doi.org/10.1016/j.jddst.2021.102402>
138. Mohammad Mehdi Ommati, Hamid Reza Mohammadi, Khadijeh Mousavi, Negar Azarpira, Omid Farshad, Reyhaneh Dehghani, Asma Najibi, Sedigheh Kamran, Hossein Niknahad, **Reza Heidari** *. Metformin alleviates cholestasis-associated nephropathy through regulating oxidative stress and mitochondrial function. *Liver Research*. 2020. DOI: <https://doi.org/10.1016/j.livres.2020.12.001>
137. Mohammad Mehdi Ommati, Omid Farshad, Negar Azarpira, Elmira Ghazanfari, Hossein Niknahad, **Reza Heidari** *. Silymarin Mitigates Bile Duct Obstruction-Induced Cholemic Nephropathy. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 2021. DOI: <https://doi.org/10.1007/s00210-020-02040-8>
136. Aein Azarang, Omid Farshad, Mohammad Mehdi Ommati, Akram Jamshidzadeh, **Reza Heidari**, Seyedeh Narjes Abootalebi, Ahmad Gholami. Protective Role of Probiotic Supplements in Hepatic Steatosis: A Rat Model Study. *BioMed Research International*. 2020. DOI: <https://doi.org/10.1155/2020/5487659>
135. Nasim Golkar, Yousef Ashoori, **Reza Heidari**, Navid Omidifar, Seyedeh Narjes Abootalebi, Milad Mohkam, Ahmad Gholami. A Novel Effective Formulation of Bioactive Compounds for Wound Healing: Preparation, In Vivo Characterization, and Comparison of Various Postbiotics Cold Creams in a Rat Model. *Evidence-Based Complementary and Alternative Medicine*. 2021. DOI: <https://doi.org/10.1155/2021/8577116>
134. Omid Farshad, Pedram Keshavarz, **Reza Heidari** *, Mina Farahmandnejad, Sara Azhdari, Akram Jamshidzadeh. The Potential Neuroprotective Role of Citicoline in Hepatic Encephalopathy. *Journal of Experimental Pharmacology*. 2020. DOI: <https://doi.org/10.2147/JEP.S261986>
133. Hamidreza Mohammadi, **Reza Heidari**, Sayyed Vahid Niknezhad, Akram Jamshidzadeh, Fatemeh Farjadian. In vitro and in vivo evaluation of succinic acid-substituted mesoporous silica for ammonia adsorption: Potential application in the management of hepatic encephalopathy. *International Journal of Nanomedicine*. 2020. DOI: <https://doi.org/10.2147/IJN.S271883>
132. Farideh Iravanpour, Leila Dargahi, Mohsen Rezaei, Masoud Haghani, **Reza Heidari**, Neda Valian, Abolhassan Ahmadiani. Intranasal insulin improves mitochondrial function and attenuates motor deficits in a rat 6-OHDA model of Parkinson's disease. *CNS Neuroscience & Therapeutics*. 2020. DOI: <https://doi.org/10.1111/cns.13609>
131. Mohammad Mehdi Ommati, Hanie Attari, Asma Siavashpour, Marzieh Shafaghat, Negar Azarpira, Hasti Ghaffari, Leila Moezi, **Reza Heidari** *. Mitigation of cholestasis-associated hepatic and renal injury by edaravone treatment: Evaluation of its effects on oxidative stress and mitochondrial function. *Liver Research*. 2020. DOI: <https://doi.org/10.1016/j.livres.2020.10.003>
130. Ghazaleh Mosleh, Amir Azadi, Sedigheh Khademian, **Reza Heidari**, Abdolali Mohagheghzadeh. Anti-Inflammatory Activity and Quality Control of *Erysimum cheiri* (L.) Crantz. *BioMed Research International*. 2021. DOI: <https://doi.org/10.1155/2021/5526644>
129. Moein Masjedi, Amir Azadi, **Reza Heidari**, Soliman Mohammadi-Samani. Brain Targeted Delivery of Sumatriptan Succinate Loaded Chitosan Nanoparticles: Preparation, *In Vitro* Characterization, and (Neuro-) pharmacokinetic Evaluations. *Journal of Drug Delivery Science and*

Technology.2020. DOI: <https://doi.org/10.1016/j.jddst.2020.102179>

128. Narges Abdoli, Issa Sadeghian, Khadijeh Mousavi, Negar Azarpira, Mohammad Mehdi Ommati, **Reza Heidari** *. Suppression of cirrhosis-related renal injury by N-acetyl cysteine. *Current Research in Pharmacology and Drug Discovery*. 2020. DOI: <https://doi.org/10.1016/j.crphar.2020.100006>
127. Omid Farshad, Mohammad Mehdi Ommati, Jale Yüzügülen, Sahand Alizadeh, Khadijeh Mousavi, Negar Azarpira, Anahita Marhonian, Akram Jamshidzadeh, **Reza Heidari** *. Skeletal Muscle Mitochondrial Impairment in Cirrhosis-Induced Sarcopenia. *Trends in Pharmaceutical Sciences*. 2020. DOI: <https://doi.org/10.30476/TIPS.2020.87789.1067>
126. Mohammad Mehdi Ommati, Omid Farshad, Negar Azarpira, Marzieh Shafaghat, Hossein Niknahad & **Reza Heidari** *. Betaine alleviates cholestasis-associated renal injury by mitigating oxidative stress and enhancing mitochondrial function. *Biologia*. 2021. DOI: <https://doi.org/10.2478/s11756-020-00576-x>
125. Mohammad Mehdi Ommati, Mohammad Reza Arabnezhad, Omid Farshad, Akram Jamshidzadeh, Hossein Niknahad, Socorro Retana-Márquez, Zhipeng Jia, Mohammad Hassan Nateghahmadi, Khadijeh Mousavi, Aysooda Arazi, Mohammad Reza Azmoon, Negar Azarpira, **Reza Heidari** *. The Role of Mitochondrial Impairment and Oxidative Stress in the Pathogenesis of Lithium-Induced Reproductive Toxicity in Male Mice. *Frontiers in Bioscience*. 2021. DOI: <https://doi.org/10.3389/fvets.2021.603262>
124. Mohammad Mehdi Ommati, Hossein Niknahad, Omid Farshad, Negar Azarpira, **Reza Heidari** *. *In Vitro* and *In Vivo* Evidence on the Role of Mitochondrial Impairment as a Mechanism of Lithium-Induced Nephrotoxicity. *Biological Trace Element Research*. 2020. DOI: <https://doi.org/10.1007/s12011-020-02302-9>
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120. Mohammad Mehdi Ommati, Ali Amjadinia, Khadijeh Mousavi, Negar Azarpira, Akram Jamshidzadeh, **Reza Heidari** *. N-acetyl cysteine treatment mitigates biomarkers of oxidative stress in different tissues of bile duct ligated rats. *Stress* 2020. DOI: <https://doi.org/10.1080/10253890.2020.1777970>

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118. Asma Siavashpour, Bahman Khalvati, Negar Azarpira, Hamidreza Mohammadi, Hossein Niknahad, **Reza Heidari***. Poly (ADP-Ribose) Polymerase-1 (PARP-1) Overactivity Plays a Pathogenic Role in Bile Acids-Induced Nephrotoxicity in Cholestatic Rats. *Toxicology Letters*. 2020. DOI: <https://doi.org/10.1016/j.toxlet.2020.05.012>
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116. Ahmadi N, Rezaee Z, Azarpira N, Zahedi S, Saeedi A, Jamshidzadeh A, Heidari R. A histopathological evaluation of the effect of captopril on cyclophosphamide-induced hemorrhagic cystitis. *Trends in Pharmaceutical Sciences*. 2021;7;35-48. DOI: <https://doi.org/10.30476/TIPS.2021.90418.1085>
115. Mohammad Mehdi Ommati, Omid Farshad, Khadijeh Mousavi, Mehdi Khalili, Akram Jamshidzadeh, **Reza Heidari***. Chlorogenic acid supplementation improves skeletal muscle mitochondrial function in a rat model of resistance training. *Biologia*. 2020. DOI: <https://doi.org/10.2478/s11756-020-00429-7>
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111. Masjedi M, Azadi A, **Heidari R**, Mohammadi-Samani S. Nose-to-brain delivery of sumatriptan-loaded nanostructured lipid carriers: preparation, optimization, characterization and pharmacokinetic evaluation. *Journal of Pharmacy and Pharmacology*. DOI: <https://doi.org/10.1111/jphp.13316>
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Workshops:

17. **“An introduction on the Writing Standards in Systematic Reviews and Meta-analysis”**. Shiraz University of Medical Sciences, RCC, December; 2021.
16. **“Research Ethics”** Shiraz University of Medical Sciences, RCC, October 08, 2017.
15. **“How to Advise Pharm. D. Students”** Shiraz University of Medical Sciences, School of Pharmacy, September 08, 2015.
14. **“Minitab”** for scientific graphs, statistics, and information management. Shiraz University of Medical Sciences, Research Consultation Center, Shiraz, Iran. December 2016. 6 hours.
13. **“Electronic Learning”** Shiraz University of Medical Sciences, Center of Excellence for Electronic Learning in Medical Sciences. January 28-March 5, 2015. 62 hours.
12. **“Scientometrics”** Shiraz University of Medical Sciences, Research Consultation Center, Shiraz, Iran. May 27, 2015. 6 hours.
11. **“Programmed Cell Death”** LUDWIG-MAXIMILIANS- UNIVERSITAT MUNCHEN. [Coursera](#), August 21, 2014.
10. **“Successful Scientific Writing”** Shiraz University of Medical Sciences, Research Consultation Center, Shiraz, Iran. February, 2015. 2 hours.
9. **“Peer review workshop”** Shiraz University of Medical Sciences, Shiraz, Iran. October 2014. 12 hours.
8. A workshop on **“Laboratory Animals Care, Handling and Routes of Drug Administration,”** organized by Tehran University of Medical Sciences (TUMS), Dr. Rastegar Institute, Faculty of veterinary medicine, Tehran, Iran. Oct. 2013. 24 hours.
7. **“Advanced Thin Layer Chromatography Methods (HPTLC)”**, organized by a biotechnology research center at Tabriz University of medical sciences. 13 January 2012-Tabriz-Iran.
6. A workshop on **“How to write and publish articles in international journals”** Iranian Research Institute for Information Science and Technology (IRANDOC), Tehran-Iran, April 10, 2012.
5. **“Collecting, organizing, citing, and sharing research sources”** by **Zotero®**. Iranian Research Institute for Information Science and Technology (IRANDOC), Tehran, Iran. November 17, 2011.
4. A workshop on **“Methods for Identification and analysis of phytochemical compounds”** held November 19-20, 2011, in the Iranian Biological Resource Center (IBRC), Tehran, Iran.
3. A comprehensive workshop on **“Cell culture (cell defrosting, cell splitting/passage, Trypan blue test, MTT assay, cell growth curve generation, application and calculation of doubling time, cell cryopreservation)”** conducted by Research Center for Pharmaceutical Nanotechnology (RCPN), Tabriz University of Medical Sciences, on February 10 - March 3, 2011.

2. “**Educational techniques**” conducted by Education Development Center, Tabriz University of Medical Sciences, Tabriz, Iran. September- December 2011.
1. “**Statistical software, Levels 1 & 2**”, Statistics and information technology management, Tabriz University of Medical Sciences, Tabriz, Iran. January 12, 2011

Memberships:

2011-Present: Iran Pharmacists Association.

Relevant Software:

- ✓ **GraphPad Prism:** Biostatistics, curve fitting, and scientific graphing
- ✓ **EndNote:** Publishing and managing bibliographies, citations, and references
- ✓ **SPSS:** Statistical analysis
- ✓ **ChemBioDraw:** A scientific drawing program to draw accurate, chemically aware structures
- ✓ **Zotero:** A tool to collect, organize, cite, and share research sources
- ✓ **ImageJ:** Image (e.g., Histopathology) processing and analysis
- ✓ **Minitab:** Analyzing and presenting research results

Research Interests:

- ✓ **Mechanistic Toxicology**
- ✓ **Cellular Responses to Oxidative Stress**
- ✓ **Mitochondrial Impairment**
- ✓ **Xenobiotics-Induced Mitochondrial Dysfunction**
- ✓ **Mitochondrial-Targeted Antioxidants**
- ✓ **Cirrhosis/Cholestasis and their Associated Complications**
- ✓ **Tissue Fibrosis**
- ✓ **Hepatic Encephalopathy and Disturbed Locomotor Activity**
- ✓ **Hepatotoxicology**
- ✓ **Drug-Induced Liver Injury (DILI)**
- ✓ **Hepatoprotection**
- ✓ **Target Organ Toxicity**

Executive Positions:

- Pharmaceutical Sciences Research Center: Vice-Chancellor of Research (2015-Present).

Awards:

- Top researcher in 2017, Shiraz University of Medical Sciences, Shiraz, Iran
- Top University Researcher, 2019, Shiraz University of Medical Sciences, Shiraz, Iran
- Incentive Top Researcher Grade 2019, Shiraz University of Medical Sciences, Shiraz, Iran

Editor/Editorial Board:

- Associate Topic Editor at Frontiers in Veterinary Science/ Reproductive Toxicity and Xenobiotic-induced Animal Infertility

References:

- ✓ **Dr. Hossein Niknahad**, Pharm. D. and Professor of Toxicology and Pharmacology, Department of Toxicology and Pharmacology, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.
- ✓ **Dr. Akram Jamshidzadeh**, Pharm. D. and Professor of Toxicology, Department of Pharmacology and Toxicology, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.
- ✓ **Dr. Negar Azarpira**, M.D. and Professor of Pathology, Transplant Research Center, Shiraz University of Medical Sciences, Shiraz, Iran.
- ✓ **Dr. Mohammad Ali Eghbal**, Pharm. D. and Professor of Toxicology, Department of Pharmacology and Toxicology, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran.
- ✓ **Dr. Hossein Babaei**, Pharm. D. and Professor of Pharmacology, Head of the Drug Applied Research Center of Tabriz University of Medical Sciences and Department of Pharmacology and Toxicology, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran.