

## In the name of GOD

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- **Work and Education**

- 2018-Present: Assistant Professor, Razi Drug Research Center, Iran University of Medical Sciences, Tehran, Iran
- 2011-2017: Ph.D Pharmacology, Iran University of Medical Sciences
- 2003-2010: DVM Veterinary Medicine, Tehran University

- **Publications**

- **Hosseinzadeh A**, Kamrava SK, Joghataei MT, Darabi R, Shakeri-Zadeh A, Shahriari M, et al. Apoptosis signaling pathways in osteoarthritis and possible protective role of melatonin. Journal of pineal research 2016.
- **Hosseinzadeh A**, Jafari D, Kamarul T, Bagheri A, Sharifi AM. Evaluating the Protective Effects and Mechanisms of Diallyl Disulfide on Interleukin-1 $\beta$ -Induced Oxidative Stress and Mitochondrial Apoptotic Signaling Pathways in Cultured Chondrocytes. Journal of Cellular Biochemistry 2017; 118: 1879-1888.
- **Hosseinzadeh A.**, Javad-Moosavi, SA, Reiter, RJ., et al. Idiopathic pulmonary fibrosis (IPF) signaling pathways and protective roles of melatonin. Life science.
- **Hosseinzadeh A**, Juybari KB, Fatemi MJ, Kamarul T, Bagheri A, Tekiyehmaroof N, et al. Protective Effect of Ginger (Zingiber officinale Roscoe) Extract against Oxidative Stress and Mitochondrial Apoptosis Induced by Interleukin-1 $\beta$  in Cultured Chondrocytes. Cells Tissues Organs 2017.

- **Hosseinzadeh A**, Javad-Moosavi SA, Reiter RJ, Yarahmadi R, Ghaznavi H, Mehrzadi S. Oxidative/nitrosative stress, autophagy and apoptosis as therapeutic targets of melatonin in idiopathic pulmonary fibrosis. *Expert Opin Ther Targets* 2018.
- **Hosseinzadeh A**, Kamrava SK, Moore BCJ, Reiter RJ, Ghaznavi H, Kamali M, Mehrzadi S. Molecular Aspects of Melatonin Treatment in Tinnitus: A Review. *Curr Drug Targets* 2019.
- **Hosseinzadeh A**, Houshmand G, Goudarzi M, Sezavar SH, Mehrzadi S, Mansouri E, Kalantar M. Ameliorative effect of gallic acid on sodium arsenite-induced spleno-, cardio- and hemato-toxicity in rats. *Life Sci* 2019.
- **Hosseinzadeh A**, Bahrampour Juybari K, Kamarul T, Sharifi AM. Protective effects of atorvastatin on high glucose-induced oxidative stress and mitochondrial apoptotic signaling pathways in cultured chondrocytes. *J Physiol Biochem* 2019.
- Juybari KB, **Hosseinzadeh A**, Ghaznavi H, Kamali M, Sedaghat A, Mehrzadi S, Naseripour M. Melatonin as a modulator of degenerative and regenerative signaling pathways in injured Retinal Ganglion Cells. *Curr Pharm Des* 2019.
- Juybari KB, **Hosseinzadeh A**, Sharifi AM. Protective effects of atorvastatin against high glucose-induced nuclear factor- $\kappa$ B activation in cultured C28I2 chondrocytes. *J Recept Signal Transduct Res* 2019.
- Gholamine B, Houshmand G, **Hosseinzadeh A**, Kalantar M, Mehrzadi S, Goudarzi M. Gallic acid ameliorates sodium arsenite-induced renal and hepatic toxicity in rats. *Drug Chem Toxicol* 2019.
- E Dehdashtian, S Mehrzadi, B Yousefi, M Safa, **A Hosseinzadeh**, R J. Reiter, Habib Ghaznavi, M Naseripour. Melatonin Ameliorates Diabetic Retinopathy: Involvement of Autophagy, Inflammation and Antioxidative Processes. *Life science*.
- F Safaei, S Mehrzadi, H Khadem Haghighian, **A Hosseinzadeh**, A Nesari. The possible neuroprotective effect of ellagic acid on sodium arsenate-induced neurotoxicity in rats. *Life science*.
- Bahrami N, Goudarzi M, **Hosseinzadeh A**, Sabbagh S, Reiter RJ, Mehrzadi S. Evaluating the protective effects of melatonin on di(2-ethylhexyl) phthalate-induced testicular injury in adult mice. *Biomed Pharmacother* 2018.
- Daryani A, Montazeri M, Pagheh A, Sharif M, Sarvi S, **Hosseinzadeh A**, et al. The potential use of melatonin to treat protozoan parasitic infections: A review. *Biomedicine & pharmacotherapy= Biomedecine & pharmacotherapie* 2017; 97: 948.
- Nabavi SM, Talarek S, Listos J, Nabavi SF, Devi KP, Roberto de Oliveira M, Tewari D, Argüelles S, Mehrzadi S, **Hosseinzadeh A**, D'onofrio G, Orhan IE, Sureda A, Xu S, Momtaz S, Farzaei MH. Phosphodiesterase inhibitors say NO to Alzheimer's disease. *Food Chem Toxicol* 2019.

- Javad-Mousavi SA, Hemmati AA, Mehrzadi S, **Hosseinzadeh A**, Houshmand G, Nooshabadi MRR, et al. Protective effect of Berberis vulgaris fruit extract against Paraquat-induced pulmonary fibrosis in rats. *Biomedicine & Pharmacotherapy* 2016; 81: 329-336.
- Mehrzadi S, Kamrava SK, Dormanesh B, Motevalian M, **Hosseinzadeh A**, Hosseini Tabatabaei SMT, et al. Melatonin synergistically enhances protective effect of atorvastatin against gentamicin-induced nephrotoxicity in rat kidney. *Canadian journal of physiology and pharmacology* 2015; 94: 265-271.
- Mehrzadi S, Sadr S, **Hosseinzadeh A**, Gholamine B, Shahbazi A, FallahHuseini H, et al. Anticonvulsant activity of the ethanolic extract of Punica granatum L. seed. *Neurological research* 2015; 37: 470-475.
- Safaei F, Mehrzadi S, Khadem Haghighian H, **Hosseinzadeh A**, Nesari A, Dolatshahi M, et al. Protective effects of gallic acid against methotrexate-induced toxicity in rats. *Acta Chirurgica Belgica* 2017: 1-9.
- Ghaznavi H, Mehrzadi S, Dormanesh B, Tabatabaei SMTH, Vahedi H, **Hosseinzadeh A**, et al. Comparison of the protective effects of melatonin and silymarin against gentamicin-induced nephrotoxicity in rats. *Journal of evidence-based complementary & alternative medicine* 2016; 21: NP49-NP55
- **A Hosseinzadeh**, T Mohajerfar, A Akhondzadeh Basti , A Khanjari, et al. Determination of minimum inhibitory concentration (MIC) of Zataria multiflora Boiss. essential oil and lysozim on E. coli 0157: H7. *Journal of Medicinal Plants*
- T Mohajerfar, **A Hosseinzadeh**, A Akhondzadeh Basti , A Khanjari, et al. Determination of minimum inhibitory concentration (MIC) of Zataria multiflora Boiss. essential oil and lysozim L. *Monocytogenes. Journal of Medicinal Plants.*

- **Conference papers**

- **Antihypertensive effect of Aqueous Extract of *Heracleum persicum* Desf. in DOCA/NaCl hypertensive rats**
- **Comparison of the protective effects of melatonin and silymarin against gentamicin-induced nephrotoxicity in rats**
- **Determination of Minimum Inhibitory Concentration (MIC) of Zataria multiflora Boiss. essential oil and Lysozim on L. monocytogenes**
- **The physicochemical properties of fetal bovine serum proteins can be affected by gamma-irradiation.**
- **Anticonvulsant activity of the ethanolic extract of Punica granatum L. seed**

- Protective effect of *Berberis vulgaris* fruit extract against Paraquat-induced pulmonary fibrosis in rats

- **Collaboration in research projects**

- Evaluating the Protective Effects and Mechanisms of Diallyl Disulfide on Interlukin-1b-Induced Oxidative Stress and Mitochondrial Apoptotic Signaling Pathways in Cultured Chondrocytes.
- Investigating the effect of garlic organosulfur compound (diallyl disulfide) on antioxidants gene and protein expression in cultured cartilage cells exposed to inflammatory cytokines.
- Investigation of the effect of Gold-coated iron oxide nanoparticles in the presence of laser on CT26 colon tumor bearing Balb/c mice.
- Evaluation of atorvastatin effects against glucose induced injury through inhibition of oxidative stress and apoptotic signaling pathway in cultured chondrocytes.
- Protective Effect of Ginger ( *Zingiber officinale* Roscoe) Extract against Oxidative Stress and Mitochondrial Apoptosis Induced by Interleukin-1 $\beta$  in Cultured Chondrocytes.
- Evaluating the therapeutic effect of coadministration of melatonin and atorvastatin in type II diabetic patients with microalbuminuria.
- Evaluating the anticonvulsant activity of thiamine vitamin D3 and melatonin combination on pentylenetetrazole induced seizures in mice.
- The role of oxidative stress factors in antidepressantlike effect of melatonin and atorvastatin combination therapy in mice.
- Evaluating the therapeutic effect of coadministration of melatonin and atorvastatin in type II diabetic patients with macular edema.
- A systematic review of the therapeutic role of melatonin in fibromyalgia patients.
- Evaluation of the protective effect of tannic acid against cyclophosphamide induced nephrotoxicity in mice
- Evaluation of the protective effect of naringenin on cyclophosphamide induced nephrotoxicity in mice
- Evaluating the antiseizure effects of combination of melatonin and thiamine in mice Emphasizing the oxidative stress pathway
- Antidepressant properties of acute and chronic melatonin administration following restraint stress in mice The expression and response of NMDA receptor and involvement of inflammatory cytokines and oxidative factors.
- ارزیابی اثر جم فیروزیل بر سمیت کلیوی ناشی از دوکسوروبیسین در موش صحرایی
- ارزیابی اثر محافظتی گالیک اسید بر استرس اکسیداتیو ناشی از سدیم آرسنیت در مغز موش صحرایی

- ارزیابی اثر محافظتی گالیک اسید بر استرس اکسیداتیو ناشی از سدیم آرسنیت در کبد، کلیه و ریه موش صحرائی

- **Interests**

- Molecular medicine
- Molecular pharmacology and toxicology
- Clinical studies
- Pulmonary fibrosis
- Diabetes
- Regenerative medicine
- Herbal medicine