

رزومه فارسی دکتر جلال پور احمد جکتاجی

سال ورود: ۱۳۷۰

رتبه علمی: استاد

مدارک تحصیلی:

۱. دکترای عمومی داروسازی از دانشگاه علوم پزشکی مشهد

۲. فوق لیسانس سم شناسی از دانشگاه تورنتو ، کانادا

۳. Ph.D سم شناسی از دانشگاه تورنتو ، کانادا

سوابق اجرایی:

۱. مدیر دفتر توسعه آموزش (EDO) دانشکده داروسازی دانشگاه علوم پزشکی شهیدبهبشتی

۲. مدیر گروه سم شناسی و داروشناسی دانشکده داروسازی، دانشگاه علوم پزشکی شهید بهشتی

۳. عضو هیئت مدیره انجمن تخصصی سم شناسی و مسمومیتهای ایران

۴. عضو هیئت مدیره انجمن متخصصین علوم دارویی ایران

۵. عضو هیئت مدیره انجمن تخصصی مرگ سلولی ایران

۶. دبیر شورای فناوری اطلاعات (IT) دانشکده داروسازی، دانشگاه علوم پزشکی شهید بهشتی

سمت فعلی:

۱. عضو بورد تخصصی رشته سم شناسی در هیئت ممتحنه و ارزشیابی وزارت بهداشت

۲. عضو هیئت تحریریه مجله (APJCP) Asian Pacific Journal of Cancer Prevention

۳. عضو هیئت تحریریه مجله (IJPR) Iranian Journal of Pharmaceutical Research

۴. عضو هیئت تحریریه مجله (IJPS) Iranian Journal of Pharmaceutical Sciences

۵. عضو هیئت تحریریه مجله (TPPS) Trends in Peptide and Protein Sciences

۶. عضو هیئت تحریریه مجله، وابسته به انتشارات بین المللی بنتهام
Current Reviews in Clinical and Experimental Pharmacology (CRCEP)

۷. عضو هیئت تحریریه مجله International Pharmacy Acta

دروس تدریسی در طول دوره عمومی:

فارماکولوژی نظری و عملی، سم شناسی نظری و عملی، کنترل مسمومیت، کشت سلولی، اطلاع رسانی داروها و سموم

دروس تدریسی در طول دوره PhD:

فارماکولوژی پیشرفته نظری و عملی، سم شناسی پیشرفته نظری و عملی، سم شناسی سلولی و مولکولی نظری و عملی، اصول و مبانی روش تحقیق پیشرفته نظری

موضوعات مورد علاقه تحقیق:

۱. بررسی مکانیسم های سلولی و مولکولی سمیت سموم مختلف
۲. بررسی مکانیسمهای سلولی مولکولی عوارض جانبی داروها
۳. طراحی داروهای اختصاصی در هدفگیری میتوکندری سلول جهت درمان سرطان
۴. بررسی اثر ضد سرطانی فراکسیون های زهر خام و عصاره آبزیان خلیج فارس
۵. بررسی مکانیسم های سلولی و مولکولی تراژنوسیتها داروها و ترکیبات محیطی و صنعتی
۶. ارزیابی تاثیر میتوتراپی در درمان عوارض جانبی داروها و سمیت سموم مختلف

فهرست کتاب ها و فصل کتاب های تالیف شده

- 1) Pourahmad J. General Toxicology, Tehran, Iran: Samat Publications 2006 (Farsi).
- 2) Pourahmad J. A Combinatorial Approach in Metal Cytotoxic Mechanisms, Saarbrücken, Germany: Lap Lambert Academics Publishing 2012 (English).
- 3) Pourahmad J, Salimi A, Seydi E. Mitochondrial Targeting for Drug Development, *Toxicology Studies - Cells, Drugs and Environment*. Edited by: Ana Cristina Andreazza and Gustavo Scola. ISBN 978-953-51-2140-4, 242 pages, Publisher: InTech, under CC BY 3.0 license, 2015 (English)
- 4) Pourahmad J. Islamic Medical Science in the West, Tehran, Iran: Shahid Beheshti University of Medical Sciences Publications 2006 (Farsi).
- 5) Pourahmad J, Salimi A, Seydi E. Role of Oxygen Free Radicals in Cancer Development and Treatment, *Free Radicals and Diseases*. Edited by: Rizwan Ahmad. ISBN 978-953-51-2746-8, 374 pages, Publisher: InTech, , 2016 (English)
- 6) Jalal Pourahmad, Marjan Aghvami, Mohammad Hadi Zarei, Parvaneh Naserzadeh Cigarette Smoke and Mitochondrial Damage, *Mitochondrial Dysfunction Caused by Drugs and Environmental Toxicants*, Edited by: Yvonne Will, James A. Dykens Online ISBN:9781119329725, Pages 709-725, Publisher: John Wiley & Sons, Inc. 2018 (English)
- 7) Hosseini M, Pourahmad J. Clinical Management of Poisoning and Drug Overdose, Based on translation of selected topics of Haddad and Winchester's Clinical Management of Poisoning and Drug Overdose 4th edition (2007), Tehran, Iran: Shahid Beheshti University of Medical Sciences Publications 2018 (Farsi).
- 8) Ahmad Salimi, Jalal Pourahmad, Chapter 16 - Role of Natural Compounds in Prevention and Treatment of Chronic Lymphocytic Leukemia, Editor(s): Ronald Ross Watson, Victor R. Preedy, Sherma Zibadi, Polyphenols: Prevention and Treatment of Human Disease (Second Edition), Academic Press, 2018, Pages 195-203,
- 9) Salimi A., Pourahmad J. (2018) In Vivo Analysis of Apoptosis in Embryonic Hippocampus. In: Félix L. (eds) Teratogenicity Testing. Methods in Molecular Biology, vol 1797. Humana Press, New York, NY
- 10) Salimi A., Pourahmad J. (2018) Measurement of Mitochondrial Toxicity Parameters in Embryonic Hippocampus. In: Félix L. (eds) Teratogenicity Testing. Methods in Molecular Biology, vol 1797. Humana Press, New York, NY.

- 11) Salimi A., Pourahmad J. (2018) Animal Tests for Evaluation of Cognitive Impairment in Neonatal Mouse. In: Félix L. (eds) Teratogenicity Testing. Methods in Molecular Biology, vol 1797. Humana Press, New York, NY.
- 12) Rezaei M., Handali S., Pourahmad J. (2021) Mitotherapy, an Attractive Avenue for the Future Medicine. In: Pourahmad J., Rezaei M. (eds) Mitochondrial Metabolism: An Approach to Disease Management, 1st edition. Elsevier Science, Cambridge, MA, USA
- 13) Rezaei M., Handali S., Pourahmad J. (2021) Mitochondria and cancer therapy. In: Pourahmad J., Rezaei M. (eds) Mitochondrial Metabolism: An Approach to Disease Management, 1st edition. Elsevier Science, Cambridge, MA, USA
- 14) Yousefsani B., Dadmehr M., Pourahmad J. (2021) Updates on mitochondria, calorie restriction and aging. In: Pourahmad J., Rezaei M. (eds) Mitochondrial Metabolism: An Approach to Disease Management, 1st edition. Elsevier Science, Cambridge, MA, USA
- 15) Rezaei M., Handali S., Pourahmad J. (2021) Mitochondria as balancers of reduction/oxidation for intracellular environment. In: Pourahmad J., Rezaei M. (eds) Mitochondrial Metabolism: An Approach to Disease Management, 1st edition. Elsevier Science, Cambridge, MA, USA
- 16) Pourahmad J, Arjmand A. (2023) Chapter 4 - Emerging roles for phospholipase A2 superfamily and their metabolites in carcinogenesis, Editor(s): Sajal Chakraborti, Phospholipases in Physiology and Pathology (Vol. 3), Academic Press, Cambridge, MA, USA, Pages 55-64.
- 17) Dadmehr M., Yousefsani B.S., Pourahmad J. (2023) Chapter 4 - Anticancer role of natural compounds targeting phospholipase A2, Editor(s): Sajal Chakraborti, Phospholipases in Physiology and Pathology (Vol. 5), Academic Press, Cambridge, MA, USA Pages 55-66.

فهرست مقالات نمایه شده بین المللی (ISI) منتشر شده در قالب نویسنده مسئول:

- 1) Kamranfar F, Jaktaji RP, Shirani K, Jamshidi A, Samiei F, Arjmand A, Khoramjouy M, Faizi M, Pourahmad J. Protective effect of a standardized *Allium jesdianum* extract in an Alzheimer's disease induced rat model. *Neurosci Lett*. 2023 Sep 19;815:137491. doi: 10.1016/j.neulet.2023.137491. PMID: 37734531
- 2) Seydi E, Rahemi M, Esmaily H, Arjmand A, Pourahmad J. Mitochondrial transplantation attenuates toxicity in rat renal proximal tubular cells caused by Favipiravir. *J Pharm Pharmacol*. 2023 Sep 21:rgad079. doi: 10.1093/jpp/rgad079. PMID: 37738481
- 3) Salami M, Pourahmad J, Zarei MH. Toxicity of para-phenylenediamine (PPD;1, 4 diaminobenzene) on isolated human lymphocytes: The key role of intracellular calcium enhancement in PPD-induced apoptosis. *Toxicol Ind Health*. 2023:7482337231176594. doi: 10.1177/07482337231176594. Online ahead of print. PMID: 37243687
- 4) A Arjmand, M Faizi, M Rezaei, J Pourahmad. The Effect of Donor Rat Gender in Mitochondrial Transplantation Therapy of Cisplatin-Induced Toxicity on Rat Renal Proximal Tubular Cells. *Innovative Journal of Pharmaceutical Research*, 2023: 22 (1)
- 5) A Arjmand, S Shiranirad, F Ameritorzani, F Kamranfar, E Seydi, J Pourahmad. Mitochondrial transplantation against gentamicin-induced toxicity on rat renal proximal tubular cells: the higher activity of female rat mitochondria. *In vitro cellular & developmental biology. Animal*, 2023: 59(1):31-40.

- 6) M Noruzi , H Behmadi, Z Halvaei Khankahdani, O Sabzevari, A Foroumadi, M Ghahremani, J Pourahmad et al. Alpha pyrrolidinovalerophenone (α -PVP) administration impairs spatial learning and memory in rats through brain mitochondrial dysfunction. *Toxicology and applied pharmacology*, 2023: 467, 116497
- 7) Y Arast, A Jabbarzadeh, F Tanbakosazan, A Arjmand, A Vazirizadeh, J Pourahmad. Toxicity of Persian Gulf shell-less marine mollusc (*Peronia peronii*) methanolic extract on melanoma tumor mitochondria. *Cutaneous and ocular toxicology*, 2023: 42(1):12-18
- 8) A Arjmand, M Mashhadi, A Kaveh, F Kamranfar, E Seydi, J Pourahmad. Mitochondrial Transplantation Therapy against Ifosfamide Induced Toxicity on Rat Renal Proximal Tubular Cells. *Drug research*, 2023: 73(2):113-120
- 9) J Pourahmad, M Salami, MH Zarei. Comparative Toxic Effect of Bulk Copper Oxide (CuO) and CuO Nanoparticles on Human Red Blood Cells. *Biological trace element research*, 2023: 201(1):149-155.
- 10) E Seydi, M Karbalay, S Naderpour, A Arjmand, J Pourahmad. Cardiotoxicity of chloroquine and hydroxychloroquine through mitochondrial pathway. *BMC Pharmacology and Toxicology* 2023: (in press)
- 11) M Afrasiabi, G Tahmasebi, E Eslami, E Seyedi, J Pourahmad. Cold Atmospheric Plasma Versus Cisplatin Against Oral Squamous Cell Carcinoma: A Mitochondrial Targeting Study. *Iranian Journal of Pharmaceutical Research* 2022: 21 (1)
- 12) M Rahimifard, Z Bagheri, M Hadjighassem, RP Jaktaji, E Behroodi, J Pourahmad, ...Investigation of anti-cancer effects of new pyrazino [1, 2-a] benzimidazole derivatives on human glioblastoma cells through 2D in vitro model and 3D-printed microfluidic device. *Life Sciences* 2022: 302, 120505
- 13) Y Arast, M Heidary, F Tanbakosazan, S Behnamipour, A Vazirizadeh, J Pourahmad, ... Selective toxicity of *Cistanche tubulosa* root extract on cancerous skin mitochondria isolated from animal model of melanoma. *Cutaneous and Ocular Toxicology* 2022: 41 (3), 243-249.
- 14) BS Yousefsani, A Salimi, F Imani, M Ramezani, K Shirani, E Seydi, J Pourahmad, ...Risperidone Toxicity on Human Blood Lymphocytes in Nano molar Concentrations. 2022: *Drug Research* (in press).
- 15) J Pourahmad, M Salami, MH Zarei. Comparative Toxic Effect of Bulk Copper Oxide (CuO) and CuO Nanoparticles on Human Red Blood Cells. *Biological Trace Element Research*, 2022: 1-7.
- 16) E Seydi, Z Irandoost, MG Khansari, P Naserzadeh, F Tanbakosazan, J Pourahmad, ...Toxicity of Hydrogen Sulfide on Rat Brain Neurons. *Drug Research* 2022: 72 (04), 197-202.
- 17) V Atabaki, E Seydi, T Hosseinabadi, J Pourahmad, M Ramezani, F Samiei. Toxicity effect of sesquiterpene lactones from *Jurinea gabrielliae* bornm on mitochondria isolated from U87 cells. *Natural Product Research* 2022: 36 (4), 1073-1077.
- 18) E Seydi, N Jafarzadeh, P Naserzadeh, A Vazirizadeh, M Mirshamsi, J Pourahmad, ...Selective Toxicity Effect of *Chrysaora quinquecirrha* Crude Venom on Human Colorectal Tumor Cells by Directly Targeting Mitochondria. *Asian Pacific Journal of Cancer Prevention* 2022: 23 (2), 511-517.
- 19) A Salimi, A Alavehzadeh, M Ramezani, J Pourahmad. Differences in sensitivity of human lymphocytes and fish lymphocytes to polyvinyl chloride microplastic toxicity. *Toxicology and Industrial Health* 2022: 38 (2), 100-111
- 20) A Salimi, R Pashaei, S Bohlooli, M Vaghar-Moussavi, J Pourahmad. Analysis of the acrylamide in breads and evaluation of mitochondrial/lysosomal protective agents to reduce its toxicity in vitro model. *Toxin reviews* 2022: 41 (1), 198-207.
- 21) R Ahmad, M Riaz, M Aldholmi, MA Qureshi, S Uddin, AA Bhat, P Poyil, J Pourahmad, ...Development of a Critical Appraisal Tool (AIMRDA) for the Peer-Review of Studies Assessing

- the Anticancer Activity of Natural Products: A Step towards Reproducibility. *Asian Pacific Journal of Cancer Prevention* 2022: APJCP 22 (12), 3735
- 22) Salimi A, Alyan N, Akbari N, Jamali Z, Pourahmad J. Selenium and L-carnitine protects from valproic acid-Induced oxidative stress and mitochondrial damages in rat cortical neurons. *Drug Chem Toxicol.* 2022; 45 (3), 1150-1157
 - 23) Seydi E, Sadeghi H, Ramezani M, Mehrpouya L, Pourahmad J. Selective Toxicity Effect of Fatty Acids Omega-3, 6 and 9 Combination on Glioblastoma Neurons through their Mitochondria. *Drug Res (Stuttg).* 2022 ;72(2):94-99.
 - 24) Rahimifard M, Jalalimanesh N, Movahed MA, Hadjighassem M, Pourahmad Jaktaji R, Bagheri Z, Pourahmad J, Zarghi A. Antiproliferative activity of new derivatives of pyrazino[1,2-a]benzimidazole: Integrated cell-based assay and computational studies with divalent magnesium, iron, and copper ions. *J Biochem Mol Toxicol.* 2022: e23155.
 - 25) R Dizaji, A Sharafi, J Pourahmad, S Vatanpour, H Dinmohammadi, ...Correlation between coenzyme Q10 content and the nutrient sensors in AKI induced by Hemiscorpius lepturus envenomation. *BiolImpacts* 2022: 12 (5), 431-438.
 - 26) Salimi A, Rahimitabar N, Vazirizadeh A, Adhami V, Pourahmad J. Persian Gulf Snail Crude Venom (*Conus textile*): A Potential Source of Anti-Cancer Therapeutic Agents for Glioblastoma through Mitochondrial-Mediated Apoptosis. *Asian Pac J Cancer Prev.* 2021 Feb 1;22(S1):49-57.
 - 27) Salimi A, Salehian S, Aboutorabi A, Vazirizadeh A, Adhami V, Sajjadi Alehashem SH, Seydi E, Pourahmad J. Cytotoxicity Studies of the Crude venom and Fractions of Persian Gulf Snail (*Conus textile*) on Chronic Lymphocytic Leukemia and Normal Lymphocytes. *Asian Pac J Cancer Prev.* 2021 May 1;22(5):1523-1529.
 - 28) Afrasiabi M, Seydi E, Rahimi S, Tahmasebi G, Jahanbani J, Pourahmad J. The selective toxicity of superparamagnetic iron oxide nanoparticles (SPIONs) on oral squamous cell carcinoma (OSCC) by targeting their mitochondria. *J Biochem Mol Toxicol.* 2021 Jun;35(6):1-8.
 - 29) Zamani F, Samiei F, Mousavi Z, Azari MR, Seydi E, Pourahmad J. Apigenin ameliorates oxidative stress and mitochondrial damage induced by multiwall carbon nanotubes in rat kidney mitochondria. *J Biochem Mol Toxicol.* 2021 Jun;35(6):1-7.
 - 30) Shafie B, Pourahmad J, Rezaei M. N-acetylcysteine is more effective than ellagic acid in preventing acrolein induced dysfunction in mitochondria isolated from rat liver. *J Food Biochem.* 2021 Jul;45(7):e13775.
 - 31) Rezaei M, Karimian L, Shafaghi B, Noubarani M, Salecheh M, Shafi Dehghani M, Eskandari MR, Pourahmad J. Evaluation of Molecular and Cellular Alterations Induced by Neuropathic Pain in Rat Brain Glial cells. *Iran J Pharm Res.* 2021 Winter;20(1):359-370.
 - 32) Seydi E, Mehrpouya L, Sadeghi H, Rahimi S, Pourahmad J. Luteolin attenuates Fipronil-induced neurotoxicity through reduction of the ROS-mediated oxidative stress in rat brain mitochondria. *Pestic Biochem Physiol.* 2021 Mar;173:104785.
 - 33) Ramezani M, Samiei F, Pourahmad J. Anti-Glioma Effect of *Pseudosynanceia Melanostigma* Venom on Isolated Mitochondria from Glioblastoma Cells. *Asian Pac J Cancer Prev.* 2021 Jul 1;22(7):2295-2302.
 - 34) Tahmasebi G, Eslami E, Naserzadeh P, Seydi E, Pourahmad J. Role of Mitochondria and Lysosomes in the Selective Cytotoxicity of Cold Atmospheric Plasma on Retinoblastoma Cells. *Iran J Pharm Res.* 2020 Fall;19(4):203-215.
 - 35) Atabaki V, Seydi E, Hosseinabadi T, Pourahmad J, Ramezani M, Samiei F. Toxicity effect of sesquiterpene lactones from *Jurinea gabrieliae* bornm on mitochondria isolated from U87 cells. *Nat Prod Res.* 2020 Nov 16:1-5.

- 36) Salimi A, Aghvami M, Azami M, Zarei MH, Eshghi P, Zarghi A, Pourahmad J. Evaluation of Cytotoxic Potentials of Novel Cyclooxygenase-2 Inhibitor Against ALL Lymphocytes and Normal Lymphocytes and Its Anticancer Effect Through Mitochondrial Pathway. *Cancer Investigation*. 2020 Sep 38(8-9):463-475.
- 37) Samiei F, Shirazi FH, Naserzadeh P, Dousti F, Seydi E, Pourahmad J. Toxicity of multi-wall carbon nanotubes inhalation on the brain of rats. *Environmental Science and Pollution Research*. 2020 Jan 27:1-6.
- 38) Jahanbani J, Ghotbi M, Shahsavari F, Seydi E, Rahimi S, Pourahmad J. Selective anticancer activity of superparamagnetic iron oxide nanoparticles (SPIONs) against oral tongue cancer using in vitro methods: The key role of oxidative stress on cancerous mitochondria. *Journal of Biochemical and Molecular Toxicology*. 2020 Jun 25:e22557.
- 39) Kiani A, Nik SH, Khodadoost A, Salimi A, Pourahmad J. Trifluoperazine an Antipsychotic Drug and Inhibitor of Mitochondrial Permeability Transition Protects Cytarabine and Ifosfamide-Induced Neurotoxicity. *Drug research*. 2020 Jun;70(06):265-72.
- 40) Salimi A, Bahraei T, Ahdeno S, Vatanpour S, Pourahmad J. Evaluation of Cytotoxic Activity of Betanin Against U87MG Human Glioma Cells and Normal Human Lymphocytes and Its Anticancer Potential Through Mitochondrial Pathway. *Nutrition and Cancer*. 2021;73(3):450-459.
- 41) Salimi A, Bahreini F, Jamali Z, Pourahmad J. Mesalazine Induces Oxidative Stress and Cytochrome c Release in Isolated Rat Heart Mitochondria: An Analysis of Cardiotoxic Effects. *International Journal of Toxicology*. 2020 May;39(3):241-7.
- 42) Yousefsani BS, Askian R, Pourahmad J. A new approach on lithium-induced neurotoxicity using rat neuronal cortical culture: Involvement of oxidative stress and lysosomal/mitochondrial toxic Cross-Talk. *Main Group Metal Chemistry*. 2020 Apr 29;43(1):15-25.
- 43) Yousefsani BS, Nabavi N, Pourahmad J. Contrasting Role of Dose Increase in Modulating Sofosbuvir-Induced Hepatocyte Toxicity. *Drug research*. 2020 Apr;70(04):137-44.
- 44) Seydi E, Tabbati Y, Pourahmad J. Toxicity of atenolol and propranolol on rat heart mitochondria. *Drug research*. 2020 Apr;70(04):151-7.
- 45) Azari MR, Mohammadian Y, Pourahmad J, Khodaghohi F, Mehrabi Y. Additive toxicity of Co-exposure to pristine multi-walled carbon nanotubes and benzo α pyrene in lung cells. *Environmental Research*. 2020 Apr 1;183:109219.
- 46) Taghizadeh G, Mehdizadeh H, Lavasani H, Ardakani YH, Foroumadi A, Khankahdani ZH, Moshtagh A, Pourahmad J, Sharifzadeh M, Rouini MR. Dose concentration and spatial memory and brain mitochondrial function association after 3, 4-methylenedioxymethamphetamine (MDMA) administration in rats. *Archives of Toxicology*. 2020 Mar;94(3):911-25.
- 47) Taghizadeh G, Mehdizadeh H, Pourahmad J, Foroumadi A, Hassani S, Khankahdani ZH, Noruzi M, Behmadi H, Lavasani H, Rouini MR, Sharifzadeh M. Bucladesine Attenuates Spatial Learning and Hippocampal Mitochondrial Impairments Induced by 3, 4-Methylenedioxymethamphetamine (MDMA). *Neurotoxicity Research*. 2020 Feb 27:1-2.
- 48) Seydi E, Mahzari F, Zarei MH, Ramazani M, Pourahmad J. Hexavalent Chromium Induced Oxidative Stress and Toxicity on isolated human lymphocytes. *International Pharmacy Acta*. 2020 Feb;3(1).

- 49) Seydi E, Servati T, Samiei F, Naserzadeh P, Pourahmad J. Toxicity of Pioglitazone on Mitochondria Isolated from Brain and Heart: An Analysis for Probable Drug-Induced Neurotoxicity and Cardiotoxicity. *Drug research*. 2020 Feb;70(02/03):112-8.
- 50) Dizaji R, Sharafi A, Pourahmad J, Vatanpour S, Hosseini MJ, Vatanpour H. The effects of *Hemiscorpius lepturus* induced-acute kidney injury on PGC-1 α gene expression: From induction to suppression in mice. *Toxicol*. 2020 Jan 30;174:57-63.
- 51) Samiei F, Shirazi FH, Naserzadeh P, Dousti F, Seydi E, Pourahmad J. Toxicity of multi-wall carbon nanotubes inhalation on the brain of rats. *Environmental Science and Pollution Research*. 2020 Jan 27:1-6.
- 52) sadat Yousefsani B, Akbarizadeh N, Pourahmad J. The antioxidant and neuroprotective effects of Zolpidem on acrylamide-induced neurotoxicity using Wistar rat primary neuronal cortical culture. *Toxicology reports*. 2020 Jan 1;7:233-40.
- 53) Behzadfar L, Hassani S, Feizpour H, Abbasian N, Maghsoudi AS, Taghizadeh G, Pourahmad J, Sharifzadeh M. Effects of mercuric chloride on spatial memory deficit-induced by beta-amyloid and evaluation of mitochondrial function markers in the hippocampus of rats. *Metallomics*. 2020;12(1):144-53.
- 54) Salimi A, Pirhadi R, Jamali Z, Ramazani M, Yousefsani BS, Pourahmad J. Mitochondrial and lysosomal protective agents ameliorate cytotoxicity and oxidative stress induced by cyclophosphamide and methotrexate in human blood lymphocytes. *Hum Exp Toxicol*. 2019 Nov;38(11):1266-1274.
- 55) Salimi A, Neshat MR, Naserzadeh P, Pourahmad J. (2019) Mitochondrial Permeability Transition Pore Sealing Agents and Antioxidants Protect Oxidative Stress and Mitochondrial Dysfunction Induced by Naproxen, Diclofenac and Celecoxib. *Drug Res (Stuttg)*. doi: 10.1055/a-0866-9356. [In Press]
- 56) Rahimi S, Naserzadeh P, Mousavi Z, Ashtari K, Seydi E, Pourahmad J. (2019) Nickel oxide nanoparticles exert selective toxicity on skin mitochondria and lysosomes isolated from the mouse model of melanoma. *J Biochem Mol Toxicol*. 2019 Sep;33(9):e22376.
- 57) A Salimi, M Nikoosiar Jahromi, J Pourahmad (2019) Maternal exposure causes mitochondrial dysfunction in brain, liver, and heart of mouse fetus: An explanation for perfluorooctanoic acid induced abortion and developmental toxicity. *Environmental toxicology* 34 (7), 878-885
- 58) M Soltani, MH Zarei, A Salimi, J Pourahmad (2019) Mitochondrial protective and antioxidant agents protect toxicity induced by depleted uranium in isolated human lymphocytes. *Journal of environmental radioactivity* 203, 112-116
- 59) P Naserzadeh, G Taghizadeh, B Atabaki, E Seydi, J Pourahmad (2019) A comparison of mitochondrial toxicity of mephedrone on three separate parts of brain including hippocampus, cortex and cerebellum. *Neurotoxicology* 73, 40-49
- 60) MR Azari, Y Mohammadian, H Peirovi, M Omid, F Khodaghali, ... (2019) Antagonistic effect of co-exposure to short-multiwalled carbon nanotubes and benzo [a] pyrene in human lung cells (A549). *Toxicology and Industrial Health* 35 (6), 445-456
- 61) E Assadian, H Dezhampahan, E Seydi, J Pourahmad (2019) Toxicity of Fe₂O₃ nanoparticles on human blood lymphocytes. *Journal of biochemical and molecular toxicology* 33 (6), e22303
- 62) R Dizaji, A Sharafi, J Pourahmad, MA Abdollahifar, H Vatanpour, ... (2019) Induction of two independent immunological cell death signaling following hemoglobinuria-induced acute kidney injury: In vivo study. *Toxicol* 163, 23-31

- 63) MR Azari, Y Mohammadian, J Pourahmad, F Khodaghali, H Peirovi, ... (2019) Individual and combined toxicity of carboxylic acid functionalized multi-walled carbon nanotubes and benzo a pyrene in lung adenocarcinoma cells. *Environmental Science and Pollution Research* 26 (13), 12709-12719
- 64) R Dizaji, A Sharafi, J Pourahmad, MA Abdollahifar, MJ Hosseini, ... (2019) Involvement of necroptosis and ferroptosis pathway signaling in *Hemiscorpius lepturus* venom-induced acute kidney injury. *Toxicon* 159, S10
- 65) E Assadian, MH Zarei, AG Gilani, M Farshin, H Dezhampanah, ... (2019) Correction to: Toxicity of Copper Oxide (CuO) Nanoparticles on Human Blood Lymphocytes *Biological trace element research*, 1-1
- 66) E Seydi, M Fatahi, P Naserzadeh, J Pourahmad (2019) The effects of para-phenylenediamine (PPD) on the skin fibroblast cells. *Xenobiotica*, 1-6
- 67) F Zangeneh, A Vazirizadeh, M reza Mirshamsi, A Fakhri, M Faizi, ... (2019) Induction of Apoptosis by extract of Persian Gulf Marine Mollusk, *Turbo coronatus* through the ROS-Mediated mitochondrial targeting on human epithelial ovarian cancer cells. *Iranian journal of pharmaceutical research: IJPR* 18 (1), 263
- 68) P Naserzadeh, F Jokar, F Vafaei, E Seydi, J Pourahmad (2018) Toxicity of new synthetic amphetamine drug mephedrone On Rat Heart mitochondria: a warning for its abuse. *Xenobiotica* 48 (12), 1278-1284
- 69) NS Razi, Y Arast, M Nazemi, J Pourahmad (2018) Selective Toxicity of Non-polar Bioactive Compounds of Sea Cucumber (*Holothuria sabra*) Extracts on Isolated Mitochondria and Hepatocytes of Induced Hepatocellular Carcinoma Rat ... *Asian Pacific Journal of Cancer Biology* 3 (1), 25-36
- 70) M Aghvami, A Salimi, P Eshghi, MH Zarei, S Farzaneh, F Sattari, A Zarghi, ... (2018) Targeting the mitochondrial apoptosis pathway by a newly synthesized COX-2 inhibitor in pediatric ALL lymphocytes *Future medicinal chemistry* 10 (19), 2277-2289
- 71) J Pourahmad, A Salimi, M Razian (2018) Analysis of Toxicity Effects of Buspirone, Cetirizine and Olanzapine on Human Blood Lymphocytes: in Vitro Model. *Current clinical pharmacology* (in press).
- 72) MH Zarei, F Hoseini Shirazi, M Aghvami, J Pourahmad (2018) Perfluorooctanesulfonate (PFOS) Induces Apoptosis Signaling and Proteolysis in Human Lymphocytes through ROS Mediated Mitochondrial Dysfunction and Lysosomal Membrane Labialization. *Iranian Journal of Pharmaceutical Research* 17 (3): 995-1007.
- 73) E Seydi, A Salimi, HR Rasekh, Z Mohsenifar, J Pourahmad (2018) Selective Cytotoxicity of Luteolin and Kaempferol on Cancerous Hepatocytes Obtained from Rat Model of Hepatocellular Carcinoma: Involvement of ROS-Mediated Nutrition and cancer 70 (4), 594-604.
- 74) P Naserzadeh, SA Mortazavi, K Ashtari, A Salimi, M Farokhi (2018) Evaluation of the toxicity effects of silk fibroin on human lymphocytes and monocytes *Journal of biochemical and molecular toxicology* 32 (6), e22056.
- 75) Y Arast, N Seyed Razi, M Nazemi, E Seydi, J Pourahmad (2018) Non-polar compounds of Persian Gulf sea cucumber *Holothuria parva* selectively induce toxicity on skin mitochondria isolated from animal model of melanoma *Cutaneous and ocular toxicology* 37 (3), 218-227.
- 76) Y Khosravi, A Salimi, J Pourahmad, P Naserzadeh, E Seydi (2018) Inhalation exposure of nano diamond induced oxidative stress in lung, heart and brain *Xenobiotica* 48 (8), 860-866.
- 77) Naserzadeh, P., Ansari Esfeh, F., Kaviani, M., Ashtari, K., Kheirbakhsh, R., Salimi, A., & Pourahmad, J. (2018). Single-walled carbon nanotube, multi-walled carbon nanotube and Fe₂O₃

- nanoparticles induced mitochondria mediated apoptosis in melanoma cells. *Cutaneous and Ocular Toxicology*, 37(2), 157–166.
- 78) Aghsami, M., Sharifzadeh, M., Sepand, M. R., Yazdankhah, M., Seyednejad, S. A., & Pourahmad, J. (2018). A cAMP analog attenuates beta-amyloid (1–42)-induced mitochondrial dysfunction and spatial learning and memory deficits. *Brain Research Bulletin*.
 - 79) Mohammadian, Y., Rezazadeh Azari, M., Peirovi, H., Khodaghali, F., Pourahmad, J., Omid, M., Rafieepour, A. (2018). Combined toxicity of multi-walled carbon nanotubes and benzo [a] pyrene in human epithelial lung cells. *Toxin Reviews*, 1–11.
 - 80) Aghvami, M., Ebrahimi, F., Zarei, M. H., Salimi, A., Pourahmad, J. R., & Pourahmad, J. (2018). Matrine Induction of ROS Mediated Apoptosis in Human ALL B-lymphocytes Via Mitochondrial Targeting. *Asian Pacific Journal of Cancer Prevention: APJCP*, 19(2), 555–560.
 - 81) Razi, N. S., Arast, Y., Nazemi, M., & Pourahmad, J. (2018). Selective Toxicity of Non Polar Bioactive Compounds of Sea Cucumber (*Holothuria sabra*) extracts on Isolated Mitochondria and Hepatocytes of Induced Hepatocellular Carcinoma Rat Model. *Asian Pacific Journal of Cancer Biology*, 3(1).
 - 82) Yousefsani, B. S., Pourahmad, J., & Hosseinzadeh, H. (2018). The Mechanism of protective effect of crocin against liver mitochondrial toxicity caused by Arsenic III. *Toxicology Mechanisms and Methods*, 28(2), 105–114.
 - 83) Zarei, M. H., Hosseini Shirazi, S. F., Aghvami, M., Salimi, A., & Pourahmad, J. (2018). Analysis of cytotoxic effects of nickel on human blood lymphocytes. *Toxicology Mechanisms and Methods*, 28(2), 79–86.
 - 84) Naserzadeh, P., Mehr, S. N., Sadabadi, Z., Seydi, E., Salimi, A., & Pourahmad, J. (2018). Curcumin Protects Mitochondria and Cardiomyocytes from Oxidative Damage and Apoptosis Induced by Hemiscorpius Lepturus Venom. *Drug Research*, 68(02), 113–120.
 - 85) Yousefsani, B. S., Mehri, S., Pourahmad, J., & Hosseinzadeh, H. (2018). Crocin Prevents Sub-Cellular Organelle Damage, Proteolysis and Apoptosis in Rat Hepatocytes: A Justification for Its Hepatoprotection (Spring 2018). *Iranian Journal of Pharmaceutical Research*.
 - 86) Al Maruf, A., O'Brien, P. J., Naserzadeh, P., Fathian, R., Salimi, A., & Pourahmad, J. (2018). Methotrexate induced mitochondrial injury and cytochrome c release in rat liver hepatocytes. *Drug and Chemical Toxicology*, 41(1), 51–61.
 - 87) Pourahmad, J., Eghbal, M. A., Yusefi, E., Tavakoli-Ardakani, Mm., Zarei, M. H., & Salimi, A. (2018). Exposure to Antineoplastic Agents Induces Cytotoxicity in Nurse Lymphocytes: Role of Mitochondrial Damage and Oxidative Stress (Winter Special Issue 2018). *Iranian Journal of Pharmaceutical Research*.
 - 88) Arast, Y., Seyed Razi, N., Nazemi, M., Seydi, E., & Pourahmad, J. (2017). Non Polar compounds of Persian Gulf Sea Cucumber *Holothuria parva* Selectively Induce Toxicity on Skin Mitochondria isolated from animal Model of Melanoma. *Cutaneous and Ocular Toxicology*, (just-accepted), 1–22.
 - 89) Aghvami, M., Pourahmad, J., Zarghi, A., Eshghi, P., Zarei, M. H., Farzaneh, S., & Sattari, F. (2017). A Newly Synthetized Ferrocenyl Derivative Selectively Induces Apoptosis in ALL Lymphocytes through Mitochondrial Estrogen Receptors. *Anti-Cancer Agents in Medicinal Chemistry*.
 - 90) Zarei, M. H., Pourahmad, J., Aghvami, M., Soodi, M., & Nassireslami, E. (2017). Lead acetate toxicity on human lymphocytes at non-cytotoxic concentrations detected in human blood. *Main Group Metal Chemistry*, 40(5–6), 105–112.
 - 91) Naserzadeh, P., Jokar, F., Vafaei, F., Seydi, E., & Pourahmad, J. (2017). Toxicity of new synthetic amphetamine drug mephedrone On Rat Heart mitochondria: a warning for its abuse. *Xenobiotica*, 1–7.
 - 92) Salimi, A., Paezi, M., Yousefsani, B. S., Shadnia, S., Hassanian-Moghaddam, H., Zamani, N., & Pourahmad, J. (2017). Inhibition of glucose-6-phosphate dehydrogenase protects

- hepatocytes from aluminum phosphide-induced toxicity. *Pesticide Biochemistry and Physiology*, 143, 141–146.
- 93) Assadian, E., Zarei, M. H., Gilani, A. G., Farshin, M., Degampanah, H., & Pourahmad, J. (2017). Toxicity of Copper Oxide (CuO) Nanoparticles on Human Blood Lymphocytes. *Biological Trace Element Research*, 1–8.
- 94) Amidi S, Hashemi Z, Motallebi A, Nazemi M, Farrokhpayam H, Seydi E, Pourahmad J. (2017) Identification of (Z)-2, 3-Diphenylacrylonitrile as Anti-Cancer Molecule in Persian Gulf Sea Cucumber *Holothuria parva*. *Marine Drugs* 15 (10), 314
- 95) Mehdizadeh H, Pourahmad J, Taghizadeh G, Vousooghi N, Yoonessi A, Naserzadeh P, Behzadfar L, Rouini M.R, Sharifzadeh M. (2017). Mitochondrial impairments contribute to spatial learning and memory dysfunction induced by chronic tramadol administration in rat: Protective effect of physical exercise. *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 79, 426-433.
- 96) Khosravi Y, Salimi A, Pourahmad J, Naserzadeh P, Seydi E. (2017). Inhalation exposure of Nano Diamond Induced Oxidative Stress in Lung, Heart and Brain. *Xenobiotica* (in press).
- 97) Kiani A, Yousefsani B.S, Doroudian P, Seydi E, Pourahmad J. (2017) The mechanism of hepatotoxic effects of sodium nitrite on isolated rat hepatocytes. *Toxicology and Environmental Health Sciences* 9 (3) 244-250.
- 98) Rajabnia Khansari M, Yousefsani B.Sadat, Kobarfard F, Faizi M, Pourahmad J. (2017). In vitro toxicity of perfluorooctane sulfonate on rat liver hepatocytes: probability of destructive binding to CYP 2E1 and involvement of cellular proteolysis. *Environmental Science and Pollution Research* 24(29) 23382-8.
- 99) Fakhri A, Omranipour R, Fakhri S, Mirshamsi M.R, Zangeneh F, Vatanpour H, Pourahmad J. (2017) Naja Naja Oxiana Venom Fraction Selectively Induces ROS-Mediated Apoptosis in Human Colorectal Tumor Cells by Directly Targeting Mitochondria. *Asian Pacific Journal of Cancer Prevention* 18(8) 2201-2208.
- 100) Salimi A, Talatappe BS, Pourahmad J. (2017) Xylene Induces Oxidative Stress and Mitochondria Damage in Isolated Human Lymphocytes. *Toxicological Research* 33 (3), 233-238.
- 101) Gholami S, Hosseini MJ, Jafari L, Omidvar F, Kamalinejad M, Pourahmad J. Eskandari MR. (2017) Mitochondria as a target for the cardioprotective effects of *cydonia oblonga* Mill. and *Ficus carica* L. in doxorubicin-induced cardiotoxicity. *Drug Research* 67 (06), 358-365.
- 102) Salimi A, Alami B, Pourahmad J. (2017) Analysis of cytotoxic effects of chlorhexidine gluconate as antiseptic agent on human blood lymphocytes. *Journal of Biochemical and Molecular Toxicology* 31(8) e21918.
- 103) Arast Y, Seyed Razi N, Seydi E, Naserzadeh P, Nazemi M. (2017) Selective Toxicity of Non Polar Bioactive Compounds of Persian Gulf Sea Squirt *Phallusia Nigra* on Skin Mitochondria Isolated from Rat Model of Melanoma. *Asian Pacific Journal of Cancer Prevention* 18 (3), 811-818.
- 104) Pirahmadi N, Zarghi A, Salimi A, Arefi H, Pourahmad J. (2017) β -lactam structured, 4-(4-(Methylsulfonyl)phenyl)-1-pentyl-3-phenoxyazetid-2-one: Selectively targets cancerous B lymphocyte Mitochondria. *Anticancer Agents Med Chem.* 17(9) 1292-1301.
- 105) Seydi E, Babaei S, Fakhri A, Pourahmad J. (2017). Selective toxicity of Caspian cobra (*Naja oxiana*) venom on liver cancer cell mitochondria. *Asian Pacific Journal of Tropical Biomedicine* 7 (5), 460-465.
- 106) Razi, N.S., Seydi, E., Nazemi, M., Arast, Y., Pourahmad, J. (2017) Selective toxicity of persian gulf sea squirt (*Phallusia nigra*) extract on isolated mitochondria obtained from liver hepatocytes of hepatocellular carcinoma induced rat. *Hepatitis Monthly*, 17(2), e41489.
- 107) Mirshamsi, M.R., Omranipour, R., Vazirizadeh, A., (...), Seyedian, R., Pourahmad, J. (2017) Persian gulf jellyfish (*Cassiopea andromeda*) venom fractions induce selective injury and cytochrome c release in mitochondria obtained from breast adenocarcinoma patients. *Asian Pacific Journal of Cancer Prevention*. 18(1), pp. 277-286.

- 108) A Salimi, E Gholamifard, P Naserzadeh, M Hosseini, J Pourahmad.(2017). Toxicity of lithium on isolated heart mitochondria and cardiomyocyte: A justification for its cardiotoxic adverse effect. *Journal of Biochemical and Molecular Toxicology* 31(2),e21836.
- 109) A Salimi, MH Roudkenar, E Seydi, L Sadeghi, A Mohseni, N Pirahmadi, J Pourahmad.(2017). Chrysin as an Anti-Cancer Agent Exerts Selective Toxicity by Directly Inhibiting Mitochondrial Complex II and V in CLL B-lymphocytes. *Cancer Investigation*, 35(3), pp. 174-186.
- 110) A Salimi, A Motallebi, M Ayatollahi, E Seydi, A Mohseni, M Nazemi, J Pourahmad.(2017). Selective toxicity of persian gulf sea cucumber holothuria parva on human chronic lymphocytic leukemia b lymphocytes by direct mitochondrial targeting. *Environmental Toxicology* 32(4), pp. 1158-1169.
- 111) M Sadighara, Z Amirshardost, M Minaiyan, V Hajhashemi, P Naserzadeh, A Salimi, E Seydi, J Pourahmad.(2017). Toxicity of Atorvastatin on Pancreas Mitochondria: A Justification for Increased Risk of Diabetes Mellitus. *Basic & Clinical Pharmacology & Toxicology* 120 (2), pp. 131-137.
- 112) Aghvami M, Zarei M.H, Mirshamsi M.R, Pourahmad J.(2017). Selective toxicity of Persian Gulf Stonefish (*Pseudosynanceia melanostigma*) venom on human acute lymphocytic leukemia B-lymphocytes. *Trends in Peptide and Protein Sciences* 1 (2), 56-60.
- 113) Seydi, E., Rasekh, H.R., Salimi, A., Mohsenifar, Z., Pourahmad, J. (2017) Selective toxicity of Apigenin on cancerous Hepatocytes by directly targeting their mitochondria. *Anti-Cancer Agents in Medicinal Chemistry*, 16(12), pp. 1576-1586.
- 114) Seydi E, Amir Hosseini S, Salimi A, Pourahmad J . (2016). Propolis induce cytotoxicity on cancerous hepatocytes isolated from rat model of hepatocellular carcinoma: Involvement of ROS-mediated mitochondrial targeting. *PharmaNutrition* 4 (4), 143-150.
- 115) Pourahmad J, Kahrizi F, Naderi N, Salimi A, Noorbakhsh F, Faizi M, Naserzadeh P. (2016). Repeated administration of Mercury accelerates progression of multiple sclerosis through mitochondrial dysfunction. *Iranian Journal of Pharmaceutical Sciences* 15 (4): 834-841.
- 116) F Mehri, M Faizi, F kahrizi, B Mohammadzadeh, J pourahmad.(2016). A comparison of developmental and maternal toxicity of perfluoro octane sulfonate (PFOS) in mouse: Evaluation of histopathological and behavioral changes. *Iranian Journal of Pharmaceutical Sciences* 12 (2), pp. 75-84.
- 117) A Salimi, M Habibi Roudkenar, L Sadeghi, A Mohseni, E Seydi, N Pirahmadi, J Pourahmad.(2016). Selective Anticancer Activity of Acacetin Against Chronic Lymphocytic Leukemia Using Both In Vivo and In Vitro Methods: Key Role of Oxidative Stress and Cancerous Mitochondria. *Nutrition and Cancer*. 68 (8),pp. 1404-1416.
- 118) G Taghizadeh, J Pourahmad, H Mehdizadeh, A Foroumadi, A Torkaman-Boutorabi, S Hassani, P Naserzadeh, R Shariatmadari, M Gholami, M Rouini, M Sharifzadeh.(2016). Protective effects of physical exercise on MDMA-induced cognitive and mitochondrial impairment. *Free Radical Biology and Medicine* 99, pp. 11-19.
- 119) A Salimi, S Eybagi, E Seydi, P Naserzadeh, N Panahi Kazerouni, J Pourahmad.(2016). Toxicity of macrolide antibiotics on isolated heart mitochondria: a justification for their cardiotoxic adverse effect. *Xenobiotica* J 46 (1), pp. 82-93.
- 120) M Faizi, A Salimi, E Seydi, P Naserzadeh, M Kouhnavard, A Rahimi, J pourahmad. (2016) Toxicity of cuprizone a Cu²⁺ chelating agent on isolated mouse brain mitochondria: a justification for demyelination and subsequent behavioral dysfunction. *Toxicology mechanisms and methods* 26 (4), 276-283.
- 121) E Seydi, HR Rasekh, A Salimi, Z Mohsenifar, J Pourahmad (2016) Myricetin Selectively Induces Apoptosis on Cancerous Hepatocytes by Directly Targeting Their Mitochondria. *Basic & clinical pharmacology & toxicology* 119 (3), pp. 249-258.

- 122) E Seydi, HR Rasekh, A Salimi, Z Mohsenifar, J Pourahmad (2016) Selective Toxicity of Apigenin on Cancerous Hepatocytes by Directly Targeting their Mitochondria. *Anti-cancer agents in medicinal chemistry* 16 (12), pp. 1576-1586.
- 123) J Pourahmad, M Faizi, S Abarghuyi, A Salimi, S Nasoohi (2016) A Search for Mitochondrial Damage in Alzheimer's Disease Using Isolated Rat Brain Mitochondria. *Iranian Journal of Pharmaceutical Research* 15, 185-195.
- 124) A Salimi, M Rahmandoost, J Pourahmad. (2016) Toxicity evaluation of 6-mercaptopurine using accelerated cytotoxicity mechanism screening (ACMS) techniques. *Source of the Document Iranian Journal of Pharmaceutical Sciences* 12 (3), pp. 65-74.
- 125) A Salimi, M Vaghar-Moussavi, E Seydi, J Pourahmad. (2016) Toxicity of methyl tertiary-butyl ether on human blood lymphocytes. *Environmental Science and Pollution Research* 23 (9), 8556-8564
- 126) A Salimi, MP Saharkhiz, A Motallebi, E Seydi, AR Mohseni, M Nazemi, J Pourahmad. (2016) Standardized Extract of the Persian Gulf Sponge, *Axinella Sinoxea* Selectively Induces Apoptosis through Mitochondria in Human Chronic Lymphocytic Leukemia Cells. *Journal of Analytical Oncology* 4 (4), 132-140
- 127) E Seydi, S Babaei, A Fakhri, J Pourahmad. (2016) Selective toxicity of Caspian cobra (*Naja oxiana*) venom on liver cancer cell mitochondria. *Asian Pacific Journal of Tropical Biomedicine* (Article in press).
- 128) Hosseini M.-J, Shahraki J, Tafreshian S, Kamalinejad M, Pourahmad J. (2016) Protective effects of *Sesamum indicum* extract against oxidative stress induced by vanadium on isolated rat hepatocytes. *Environmental Toxicology* 31 (8), pp. 979-985.
- 129) A Salimi, MH Roudkenar, L Sadeghi, A Mohseni, E Seydi, N Pirahmadi, J Pourahmad. (2015) Ellagic acid, a polyphenolic compound, selectively induces ROS-mediated apoptosis in cancerous B-lymphocytes of CLL patients by directly targeting mitochondria. *Redox biology* 6, 461-471.
- 130) E Seydi, A Motallebi, M Dastbaz, S Dehghan, A Salimi, M Nazemi, J Pourahmad. (2015) Selective Toxicity of Persian Gulf Sea Cucumber (*Holothuria parva*) and Sponge (*Haliclona oculata*) Methanolic Extracts on Liver Mitochondria Isolated from an Animal Model of Hepatocellular Carcinoma. *Hepatitis Monthly* 15 (12)
- 131) A Salimi, A Ayatollahi, E Seydi, N Khomeisi, J Pourahmad (2015). Direct toxicity of amyloid beta peptide on rat brain mitochondria: preventive role of *Mangifera indica* and *Juglans regia*. *Toxicological & Environmental Chemistry* 97 (8), 1057-1070
- 132) Pirahmadi N., Fazeli M., Zarghi A., Salimi A., Arefi H., Pourahmad J. (2015) 4-(4-(Methylsulfonyl) phenyl)-3-phenoxy-1-phenylazetidin-2-one: A Novel Cox-2 inhibitor acting selectively and directly on cancerous B lymphocyte Mitochondria, *Toxicological & Environmental Chemistry*, 97 (7), 908-921
- 133) Salimi A., Eybagi S., Seydi E., Naserzadeh P., Kazerouni N.P., Pourahmad J. (2015) Toxicity of macrolide antibiotics on isolated heart mitochondria: a justification for their cardiotoxic adverse effect, *Xenobiotica*, 46 (1), 82-93.
- 134) Mehri F., Faizi M., Salimi A., Seydi E., Pourahmad J. (2015) Toxicity of 4-methylimidazole on isolated brain mitochondria: using both *in vivo* and *in vitro* methods, *Toxicological & Environmental Chemistry*, 97(5), 663-673.
- 135) Seydi E., Rajabi M., Salimi A., Pourahmad J. (2015) Involvement of mitochondrial mediated caspase 3 activation and lysosomal labilization in acrylamide-induced liver toxicity, *Toxicological & Environmental Chemistry*, 97(5), 563-575.
- 136) Hashemzaei M., Pourahmad J., Safaiejad F., Tabrizian K., Akbari F., Bagheri G., Hosseini M.-J., Shahraki J. Antimony induces oxidative stress and cell death in normal hepatocytes, *Toxicological & Environmental Chemistry*, 97(5), 2015, 256-265.

- 137) Naserzadeh, P., Hosseini, M.J., Arbabi, S., Pourahmad, J. . A comparison of toxicity mechanisms of cigarette smoke on isolated mitochondria obtained from rat liver and skin. *Iranian Journal of Pharmaceutical Research*. 14 (1), 2015, 271-277.
- 138) Eskandari, M.R., Moghaddam, F., Shahraki, J., Pourahmad, J. A comparison of cardiomyocyte cytotoxic mechanisms for 5-fluorouracil and its pro-drug capecitabine. *Xenobiotica*. 45, 2015, 79-87.
- 139) Naserzadeh, P., Hosseini, M.J., Asl, B.M., Pourahmad, J. Toxicity mechanisms of cigarette smoke on mouse fetus mitochondria. *Iranian Journal of Pharmaceutical Research* 14, 2015, 131-138.
- 140) Shahraki, J., Motallebi, A., Barekati, I., Seydi, E., Pourahmad, J. Comparison of cellular and molecular cytotoxic mechanisms of Cochlodinium polykrikoides in isolated trout and rat hepatocytes. *Toxicological & Environmental Chemistry*, 96, (6) 2014, 917-930.
- 141) Rezaei M, Salimi A, Taghidust M, Naserzadeh P, Goudarzi GR, Seydi E. & Pourahmad J. A comparison of toxicity mechanisms of dust storm particles collected in the southwest of Iran on lung and skin using isolated mitochondria. *Toxicological & Environmental Chemistry*, 2014, 96(5), 814-830.
- 142) Shahraki J, Zareh M, Kamalinejad M, Pourahmad J. Cytoprotective Effects of Hydrophilic and Lipophilic Extracts of Pistacia vera against Oxidative Versus Carbonyl Stress in Rat Hepatocytes. *Iran. J. Pharm. Res.* 2014, 13(4): 1263-1277.
- 143) Talari M, Seydi E, Salimi A, Mohsenifar Z, Kamalinejad M, Pourahmad J. Dracocephalum: novel anticancer plant acting on liver cancer cell mitochondria. *Biomed Res Int.*, 2014:892170. doi: 10.1155/2014/892170. Epub 2014 Jul 17.
- 144) Eskandari MR, Moghaddam F, Shahraki J, Pourahmad J. A comparison of cardiomyocyte cytotoxic mechanisms for 5-fluorouracil and its pro-drug capecitabine. *Xenobiotica*, 2014, (In Press).
- 145) Zargar M, Pourahmad J., Protective effect of Punica granatum L.(pomegranate) fruit extracts and ellagic acid against cytotoxicity induced by methyl tertiary butyl ether in isolated rat hepatocytes, *Toxicological & Environmental Chemistry*, 2014, 96 (1):150-161.
- 146) Hosseini MJ, Shaki F, Ghazi-Khansari M, Pourahmad J. Toxicity of Copper on Isolated Liver Mitochondria: Impairment at Complexes I, II, and IV Leads to Increased ROS Production, *Cell Biochemistry and Biophysics*, 2014, 70 (1), pp. 367-381
- 147) Farhad Emamia,b, Baharak Mohammadzadeh Asla, Enayatollah Seydia, Mohammad Zargara Parvaneh Naserzadehc,Jalal Pourahmad, Embryotoxic Effects of Atorvastatin on Mouse Fetus, *Iranian Journal of Pharmaceutical Sciences*2013: 9 (1): 13-23.
- 148) Faizi M, Salimi A, Rasolzadeh M, Naserzadeh P, Pourahmad J. Schizophrenia Induces Oxidative Stress and Cytochrome C Release in Isolated Rat Brain Mitochondria: a Possible Pathway for Induction of Apoptosis and Neurodegeneration, *Iran. J. Pharm. Res* (2014), 13(supplement), 93-100.
- 149) Porahmad J, Salimi A, Enayatollah S. Natural Compounds Target Mitochondrial Alterations in Cancer Cell: New Avenue for Anticancer Research, *Iran. J. Pharm. Res.* (2014), 13(supplement), 1-2.
- 150) Hosseini M.J, Naserzadeh P, Salimi A & Pourahmad J. Toxicity of cigarette smoke on isolated lung, heart, and brain mitochondria: induction of oxidative stress and cytochrome c release, *Toxicol. Environ. Chem.* (2013), 95 (9), 1624–1637.
- 151) Mirderikvand N, Mohammadzadeh Asl B, Naserzadeh P, Shaki F, Shokrzadeh M and Pourahmad J. Embryo Toxic Effects of Depleted Uranium on the Morphology of the Mouse Fetus, *Iran. J. Pharm. Res.* (2014), 13(1), 199-206.
- 152) Shaki F, Hosseini MJ, Shahraki J, Ghazi-Khansari M, Pourahmad J. Toxicity of depleted uranium on isolated liver mitochondria: a revised mechanistic vision for justification of clinical

- complication of depleted uranium (DU) on liver, *Toxicol. Environ. Chem.* (2013), 95(7), 1221-1234.
- 153) Shahraki J, Motallebi A, Aghvami M, Pourahmad J. Ichthyotoxic *Cochlodinium polykrikoides* Induces Mitochondrial Mediated Oxidative Stress and Apoptosis in Rat Liver Hepatocytes *Iran J Pharm Res.* (2013), 12 (4), 829-844.
- 154) Salimi A, Seydi E, Pourahmad J. Use of nutraceuticals for prevention and treatment of cancer. *Iran J Pharm Res.* 2013, 12(3),219-20.
- 155) Amirmostofian M, Pourahmad J, Soleimani Z, Tabib K, Tanbakosazan F, Omrani M, Kobarfard F. Synthesis and Molecular-cellular Mechanistic Study of Pyridine Derivative of Dacarbazine. (2013), 12(3), 255-265.
- 156) Shaki F, Hosseini MJ, Ghazi-Khansari M, Pourahmad J. Depleted uranium induces disruption of energy homeostasis and oxidative stress in isolated rat brain mitochondria. *Metallomics*, (2013), 5, 736—744.
- 157) Shahraki J, Motallebi A, Pourahmad J. Oxidative mechanisms of fish hepatocyte toxicity by the harmful dinoflagellate *Cochlodinium polykrikoides*. *Mar Environ Res.* (2013) 87-88, 52-60.
- 158) Hosseini MJ, Shaki F, Ghazi-Khansari M, Pourahmad J. Toxicity of vanadium on isolated rat liver mitochondria: a new mechanistic approach. *Metallomics* (2013), 5(2):152-66.
- 159) Shaki F, Pourahmad J. Mitochondrial Toxicity of Depleted Uranium: Protection by Beta-Glucan. *Iran J Pharm Res* (2013) 12 (1) ,131-140
- 160) Hosseini MJ, Shaki F, Ghazi-Khansari M, Pourahmad J. Toxicity of arsenic (III) on isolated liver mitochondria: A new mechanistic approach. *Iran J Pharm Res* (2013) 12 (SUPPL.) , 119-136.
- 161) Shaki F, Hosseini MJ, Ghazi-Khansari M, Pourahmad J. Toxicity of depleted uranium on isolated rat kidney mitochondria. *Biochim Biophys Acta.* (2012), 1820(12):1940-50.
- 162) Hosseini MJ, Seyedrazi N, Shahraki J, Pourahmad J. Vanadium induces liver toxicity through reductive activation by glutathione and mitochondrial dysfunction. *Advances in Bioscience and Biotechnology* (2012), 3, 1096-1103.
- 163) Hosseini MJ, Shaki F, Ghazi-Khansari M, Pourahmad J. Vanadium induces oxidative stress in isolated rat liver mitochondria. *Toxicology Letters* 211S (2012) S43–S216
- 164) Eskandari MR, Khalili Fard J, Hosseini M-J, Pourahmad J. (2012) Glutathione mediated reductive activation and mitochondrial dysfunction play key roles in lithium induced oxidative stress and cytotoxicity in liver. *Biomtals* 25:863–873
- 165) Pourahmad J, Hamidi-Pour N, Hosseini MJ, Shaki F, Daraie B. (2012) Uranyl acetate induces oxidative stress and mitochondrial dysfunction in the human dermal fibroblast primary cells. *IJPR* 11 (2): 495-501
- 166) Pourahmad J, Hosseini MJ. (2012) Application of isolated mitochondria in toxicological studies. *IJPR* 11 (3):703-704.
- 167) Pourahmad J, Eskandari MR, Kaghazi A, Shaki F, Shahraki J, Khalili Fard J. A new approach on valproic acid induced hepatotoxicity: Involvement of lysosomal membrane leakiness and cellular proteolysis. *Toxicology in Vitro* 2012, 26(4): 545-51
- 168) Pourahmad J, Hosseini MJ, Eskandari MR, Rahmani F. (2011) Involvement of four different intracellular sites in chloroacetaldehyde- induced oxidative stress cytotoxicity. *IJPR*, 11 (1): 265-276.
- 169) Pourahmad J, Eskandari MR, Alavian G, Shaki F. (2012) Lysosomal membrane leakiness and metabolic biomethylation play key roles in methyl tertiary butyl ether-induced toxicity and detoxification. *Toxicol Environ Chem.* 94(2), 281-293.

- 170) Pourahmad J, Mortada Y, Eskandari MR, Sharaki J. (2011) Involvement of Lysosomal Labilisation and Lysosomal/mitochondrial Cross-talk in Diclofenac Induced Hepatotoxicity. *IJPR*. 10 (4): 877-887.
- 171) Pourahmad J, Hosseini MJ, Bakan S, Ghazi-Khansari M. (2011) Hepatoprotective activity of angiotensin-converting enzyme (ACE) inhibitors, 3 captopril and enalapril, against paraquat toxicity. *Pest. Biochem. Physiol.* 99(1), 105-110.
- 172) Eskandari MR, Pourahmad J, Daraei B. (2011) Thallium (I) and thallium (III) induce apoptosis in isolated rat hepatocytes by alteration of mitochondrial function and generation of ROS. *Toxicol Environ Chem.* 93(1), 145-156.
- 173) Pourahmad J, Shaki F, Tanbakoosazan F, Ghalandari A, Ettehadi H, Dahaghin E. (2011) Protective effects of fungal beta-(1-3)-D-glucan against oxidative stress cytotoxicity induced by depleted uranium in isolated rat hepatocytes. *Hum Exp Toxicol* 30(3): 173-181.
- 174) Pourahmad J, Hosseini MJ, Eskandari MR, Shekarabi SM, Daraei B. (2010) Mitochondrial/lysosomal toxic cross-talk plays a key role in cisplatin nephrotoxicity. *Xenobiotica* 40 (11), 763-771.
- 175) Pourahmad J, Eskandari MR, Daraei B. (2010) A comparison of hepatocyte cytotoxic mechanisms for thallium (I) and thallium (III). *Environ Toxicol.* 25(5):456-67.
- 176) Pourahmad J, Eskandari MR, Nosrati M, Kobarfard F, Khajeamiri AR. (2010) Involvement of mitochondrial/lysosomal toxic cross-talk in ecstasy induced liver toxicity under hyperthermic condition. *Eur J Pharmacol.* 643: 162–169.
- 177) Pourahmad J, Eskandari MR, Shakibaei R, Kamalinejad M. (2010) A search for hepatoprotective activity of fruit extract of *Mangifera indica* L. against oxidative stress cytotoxicity. *Plant Foods Hum Nutr.* 65(1):83-9.
- 178) Pourahmad J, Eskandari MR, Shakibaei R, Kamalinejad M. (2010) A Search for Hepatoprotective Activity of Aqueous Extract of *Rhus coriaria* L. Against Oxidative Stress Cytotoxicity. *Food Chem Toxicol.* 48(3):854-8.
- 179) Pourahmad J, Amirmostofian M, Kobarfard F, Shahraki J. (2009) Biological reactive intermediates that mediate dacarbazine cytotoxicity. *Cancer Chemother. Pharmacol.*, 65:89–96.
- 180) Pourahmad J, Motallebi A, Asgharizadeh F, Eskandari GR, Shafaghi B. (2008) Radioactivity concentrations in sediments on the coast of the Iranian province of Khuzestan in the Northern Persian Gulf. *Environ Toxicol.* 23 (5): 583-590
- 181) Pourahmad J, O'Brien PJ, Chan K, Shakouri A. (2008) Tetramethylphenylenediamine-induced hepatocyte cytotoxicity caused by lysosomal labilisation and redox cycling with oxygen activation. *Chem Biol Interact.* 172(1):39-47.
- 182) Pourahmad J., Tanbakoosazan F., Ghashang M. (2007) Free radical scavenging activity of silymarin with reference to depleted uranium induced mitochondrial dysfunction. *Iranian Journal of Toxicology*; 1(3):133-9.
- 183) Pourahmad J, Jokar F, Rabiei M, O'Brien PJ. (2007) Heavy metal induced cell necrosis: involves apoptosis death signals initiated by mitochondrial; injury. *Iranian Journal of Toxicology*; 1(2):85-90.
- 184) Pourahmad J., Rabiei M., O'Brien P.J. (2007) A search for cellular and molecular mechanisms involved in arsenite toxicity. *Iranian Journal of Toxicology*; 1(1):14-24.
- 185) Pourahmad J., Jokar F., O'Brien P.J. (2007) A search for cellular and molecular mechanisms involved in chromate toxicity. *Iranian Journal of Toxicology*; 1(1):46-55.
- 186) Pourahmad J, Rezvani N, Rezaei M, Ahmadiani A. (2006) Impact of severity and duration of persistent pain on apoptosis. *IJPR*, 3: 203-208. (English)
- 187) Pourahmad J., Kobarfard F., Amirmostofian M. (2006) Lysosomal Oxidative Stress Cytotoxicity Induced by Dacarbazine and It's Pyridine Derivative in Hepatocytes. *Iranian Journal of Pharmaceutical Sciences*; 2(4): 123-128.

- 188) Pourahmad J, Ghashang M, Ettehadi H, Ghalandari A. (2006) A search for cellular and molecular mechanisms involved in depleted uranium toxicity. *Environmental Toxicology*; 21(4):349-54.
- 189) Pourahmad J, Rezvani N, Rezaei M, Ahmadiani A. (2006) Influx and efflux of glutathione during continuous pain induction in rat hepatocytes and glial cells. *Int. J. Pharmacol.*; 2(1):15-19.
- 190) Pourahmad J, Rabiei M, Jokar F, O'Brien PJ. (2005) A comparison of hepatocyte cytotoxic mechanisms for chromate and arsenite. *Toxicology*; 206: 449-460.
- 191) Pourahmad J., Marhamati M. (2004) An introduction to industrial diseases. *Daru-va-Darman*, 39: 51-6. (Farsi).
- 192) Pourahmad J., Kobarfard F., Shakoori A. (2004) Lysosomal oxidative stress cytotoxicity induced by para-phenylenediamines redox cycling in hepatocytes. *IJPR*, 4: 193-9.
- 193) Pourahmad J, O'Brien PJ, Jokar F, Daraei B. (2003) Carcinogenic metal induced sites of reactive oxygen species formation in hepatocytes. *Toxicol. In Vitro*; 17(5-6): 803-10.
- 194) Pourahmad J, O'Brien PJ. (2003) Involvement of lysosomal proteolysis in hepatocyte cytotoxicity induced by Cu (II) or Cr (VI). *J. Phys. IV France*; 107(2): 1087-90.
- 195) Pourahmad J, O'Brien PJ. (2003) Involvement of intracellular Na⁺ accumulation in Hg²⁺ or Cd²⁺ induced cytotoxicity. *J. Phys. IV France*; 107(2): 1095-98.
- 196) Pourahmad J, O'Brien PJ. (2003) Contribution of Ca²⁺ ions influx in Cu (II) or Cr (VI) induced hepatocyte cytotoxicity. *J. Phys. IV France*; 107(2): 1091-93.
- 197) Moridani MY, Pourahmad J, Bui H, Siraki A, O'Brien PJ. (2003) Dietary flavonoid iron complexes as cytoprotective superoxide radical scavengers. *Free Radic Biol Med.*;34(2):243-53.
- 198) Siraki AG, Pourahmad J, Chan TS, Khan S, O'Brien PJ. (2002) Endogenous and endobiotic induced reactive oxygen species formation by isolated hepatocytes. *Free Radic Biol Med.*;32(1):2-10.
- 199) Pourahmad J., Mortazavi S.A., Tabandeh H.A., Ghavam S.M., Karimi F., Madani H. (2002) Cardiovascular effects of Adult Cold and Antihistamine Decongestant tablets in hypertensive patients. *Pejouhandeh*; 7(2 (28));141-148 (Farsi).
- 200) Pourahmad J, Khan S, O'Brien PJ. (2001) Lysosomal oxidative stress cytotoxicity induced by nitrofurantoin redox cycling in hepatocytes. *Adv Exp Med Biol.*;500:261-5.
- 201) Pourahmad J, Mihajlovic A, O'Brien PJ. (2001) Hepatocyte lysis induced by environmental metal toxins may involve apoptotic death signals initiated by mitochondrial injury. *Adv Exp Med Biol.*;500:249-52.
- 202) Pourahmad J, O'Brien PJ. (2001) Biological reactive intermediates that mediate chromium (VI) toxicity. *Adv Exp Med Biol.*;500:203-7.
- 203) Pourahmad J, Ross S, O'Brien PJ. (2001) Lysosomal involvement in hepatocyte cytotoxicity induced by Cu(2+) but not Cd(2+). *Free Radic Biol Med.*;30(1):89-97.
- 204) Teng S, Beard K, Pourahmad J, Moridani M, Easson E, Poon R, O'Brien PJ. (2001) The formaldehyde metabolic detoxification enzyme systems and molecular cytotoxic mechanism in isolated rat hepatocytes. *Chem Biol Interact.*;130-132(1-3):285-96.
- 205) Pourahmad J, O'Brien PJ. (2000) A comparison of hepatocyte cytotoxic mechanisms for Cu²⁺ and Cd²⁺. *Toxicology.*;143(3):263-73.
- 206) Pourahmad J, O'Brien PJ. (2000) Contrasting role of Na(+) ions in modulating Cu(+2) or Cd(+2) induced hepatocyte toxicity. *Chem Biol Interact.*;126(2):159-69.

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تلفن مستقیم محل کار: ۰۲۱-۸۸۲۰۰۰۹۰

تلفن داخلی محل کار: ۱۲۰ الی ۱۱۸ ۸۸۲۰۰۱ داخلی ۲۶۰