



IN THE NAME OF GOD

Curriculum Vitae (CV)

Mashhad University of Medical Sciences

Personal Information:

Name	Surname	Date of Birth	Nationality	Gender		Marital Status
				Male	Female	
Mohammad Taher	Boroushaki	02-Oct- 1961	Iranian	*		Married

Telephone			Fax	Email
Home	Office	Mobile		
+98 513 611 0872	+98 513 800 2261	+98 915 310 7318	+98 513 882 8567	boroushakimt@mums.ac.ir mtboroushaki@gmail.com

Educational Background: (last one first)

Degree	Field of Specialization	Name of Institution	City	Country	Received Date	Academic Rank
Pharm. D.	Pharmacist	Faculty of Pharmacy, Mashhad University of Medical Sciences	Mashhad	Iran	1988	
Ph. D.	Toxicology	Faculty of Biomedical & Life Sciences. University of Surrey	Guildford	England	2001	

Master Thesis:

Ph. D. Dissertation: Hexachlorobutadiene Toxicity In The Young Male Rat

Administrative Positions:

Job Title	Place of Work	Date		Name of Institution
		From	To	
Member of Scientific Board	Faculty of Medicine	1989	Current	Mashhad University of Medical Sciences
Director of The Food Control Department	Food and Drug Vice Presidency	2006	2011	Mashhad University of Medical Sciences
Chairman of Dept of Pharmacology	Faculty of Medicine	2013	2015	Mashhad University of Medical Sciences
Member of The Pharmacological Research Center of Medicinal Plants	MUMS	2003	Current	Mashhad University of Medical Sciences
Member of The Toxicological Research Center	Faculty of Medicine	2012	Current	Mashhad University of Medical Sciences

Master and Doctorate Theses Supervision:

No	Students Full Name	MS / Ph.D.	Title	Date
1	Farhad Malek	Ph. D.	Bronchodilatory effect of Portulacaceae Oleracea on airways of Asthmatic Patients	2003
2	Leila Ghazi	MSc	Effect of commercial (vimang) and hydroalcoholic extract of Mangifera indica (Mango) on gentamicin-induced nephrotoxicity in rat	2007
3	HamidReza Sadeghnia	Ph. D.	Evaluation of neuroprotective and genoprotective effects of Safranal	2008
4	Bahareh Naghizadeh	Ph. D.	Protective effect of crocin on cisplatin-induced renal toxicity	2008
5	Rosita Salari	Ph. D.	Identification of major molds producing Aflatoxin B1 and Ochratoxin A in red pepper and investigation on the effect of different storage and disinfection methods on the content of these mycotoxins	2013
6	Elham Asadpour	Ph. D.	Cytotoxic effects and the mechanism of Zirconium oxide nanoparticles on PC12 and Neuro2a cell lines	2013
7	Delnia Arshadi	Ph. D.	Study on the inhibitory effects of nicotine and selective agonist of $\alpha 7$ nicotinic receptor on inflammatory factors and matrix of metalloproteinases expression in macrophages and fibroblast like synoviocytes	2014
8	Samaneh Jamshidi	MSc	Protective Effect of Diosgenin against H2O2-Induced Oxidative Stress on H9C2 Cells	2014
9	Elham Bakhtiari	Ph. D.	Study of olmesartan-induced cytotoxicity and apoptosis in MCF-7 and Hela cell lines (Role of NFkB)	2016
10	Hamid Mollazadeh	Ph. D.	Effects of pomegranate seed oil on oxidant/antioxidant system in heart and kidney homogenates of STZ-induced diabetic rats and its effects on high glucose-induced toxicity in H9c2 cell line	2016
11	GholamReza Bazmandegan	Ph. D.	Effects of hydroalcoholic extract of propolises of Khorasan Razavi and Kerman Provinces in focal ischemic brain injury in mice	2016
12	Mehdi Bihamta	MSc	Protective effect of pomegranate seed oil against H2O2 -induced oxidative stress in cardiomyocytes	2017
13	Arezo Rajabian	Ph.D.	Effect of 3-O-acetyl-11-keto- β -boswellic acid (AKBA) on glutamate-induced toxicity in PC12 and Neuro-2a cells	2017
14	Sahar Fanoodi	Ph. D.	Neuroprotective effects of everolimus on streptozotocin-induced Alzheimer's disease in rat	2019
15	Behnaz Hatamluyi	Post Doc	Fabrication of Nanocomposite-Based Molecularly Imprinted Sensor for Determination and Measurement of Patulin in Apple and Grape Juice Samples compare to HPLC method.	2019

Publications: (books)

Title	Type of Work		Publisher	Date
	Translation	Compilation		

Publications: (papers)

	Title of the Article	Journal	Website journal	Date
1	Anticonvulsant effects of <i>Rosmarinus officinalis</i> in mice (Persian)	Koomesh (J. of Semnan Univ). 3 (1): 53-58. ,		2003
2	Neurotoxic effects of hexachlorobutadiene on the young male rat	Iranian J. of Basic Medical Sciences. 6(2): 126-131.		2003
3	Development of resistance against hexachlorobutadiene in the proximal tubules of the young male rat.	Comparative Biochemistry & Physiology. 136(4), 362-75	www.elsevier.com/locate/cbpc	2003
4	Bronchodilatory effect of <i>Portulaca oleracea</i> in airways of asthmatic patients	Journal of Ethnopharmacology. , 93: 57-62	www.elsevier.com/locate/jethpharm	2004
5	Anticonvulsant effects of <i>Melissa officinalis</i> in mice (Persian)	J. of Gilan University. 48(12): 14-20.		2004
6	Protective effect of verapamil against hexachlorobutadiene nephrotoxicity in rat (Persian)	Iranian Journal of Medical Sciences. 29(3): 101 – 4	ijms.sums.ac.ir	2004
7	Relaxant effect of <i>Portulaca oleracea</i> on guinea pig tracheal chains and its possible mechanism(s) of action	Med. Hypotheses Research. 1: 139-147	www.journal-MHR.com	2004
8	Antimicrobial effect of different extracts of <i>Nerium oleander</i> L on standard and clinically isolated microorganisms (Persian)	Koomesh (J. of Semnan University). 6(1): 37-42		2004
9	Antitussive effect of <i>Portulaca oleracea</i> L. in guinea pigs	Iranian J of Pharm. Res. 3(3):	www.ijpr-online.com	2004

		187-190.		
10	Protective effect of calcium channel blockers against hexachlorobutadiene nephrotoxicity in rat (Persian)	Iranian J. of Basic Med. Sci. , 7(4): 208-214	ijbms.mums.ac.ir	2005
11	Effect of safranal on lipid peroxidation level during renal ischemia-reperfusion injury in rat. (Persian)	Iranian J. of Basic Med. Sci. 8(3): 179-185	ijbms.mums.ac.ir	2005
12	Assessment of some complications in male mice-addicted to morphine on first generation of offspring (Persian)	Iranian J. of Basic Med. Sci. 9(1): 50-56	ijbms.mums.ac.ir	2006
13	Protective effect of safranal against hexachlorobutadiene nephrotoxicity in rat	Iranian Journal of Medical Sciences. , 32 (3): 173-176	ijms.sums.ac.ir	2007
14	Protective effect of crocin against cisplatin-induced acute renal failure and oxidative stress in rat	Iranian Biomedical J. 12 (2): 93-100	http://BJ.pasteur.ac.ir	2008
15	Protective effect of safranal against gentamicin-induced nephrotoxicity in rat	Iranian J of Medical Sciences. 34(4), 285-288	ijms.sums.ac.ir	2009
16	Protective effect of Pomegranate seed oil on hexachlorobutadiene - induced nephrotoxicity in rat	Renal Failure. 32(5), 612-617	www.tandfonline.com/loi/irnf20	2010
17	Determination of acrylamide level in popular Iranian brands of potato and corn products	Food and Chemical Toxicology. 48: 2581-84	www.elsevier.com/locate/foodchemtox	2010
18	Study of emotional and exploratory behaviors in the first generation of morphine addicted mice using open field and relative plus maze	Pharmacology online. 3: 208-216	http://pharmacologyonline.silae.it/front	2010
19	Effect of commercial (vimang) and hydroalcoholic extract of Mangifera indica (Mango) on gentamicin-induced nephrotoxicity in rat	Avicenna Journal of Phytomedicine. 1, (2): 98-105	ajp.mums.ac.ir	2011
20	Assessment of the Microbiological Quality and Mycotoxin Contamination of Iranian Red Pepper spice	J. Agricultural Sci. and Technology. 14: 1511-21	jast-old.modares.ac.i	2012
21	A comparison between ELISA and HPLC for aflatoxin B1 and ochratoxin A detection in Iranian red pepper (Persian)	J Food Industrial Researches. 21(4):482-90		2012
22	Protective effect of pomegranate seed oil against acute toxicity of diazinon in rat kidney	Iranian J of Pharm. Res. 12(4): 821-827	www.ijpr-online.com	2013
23	Protective Effect of Rutin on Hexachlorobutadiene-Induced Nephrotoxicity	Renal Failure. 35(8),1151-55	www.tandfonline.com/loi/irnf20	2013
24	Protective effect of safranal, a constituent of Crocus sativus, on quinolinic acid-induced oxidative damage in rat hippocampus	Iranian J. of Basic Med. Sci. 16(1):73-82	ijbms.mums.ac.ir	2013
25	Plasma level of neopterin as a marker of disease activity in treated rheumatoid arthritis patients: Association with gender, disease activity and anti-CCP antibody	International Immunopharmacology. 17(3); 763-767	www.elsevier.com/locate/intimp	2013
26	Aflatoxins and ochratoxin a contamination in Iranian red pepper after harvesting (Persian)	J. Food Sci & Technol. 41(10): 47-57		2013
27	Evaluation of cytotoxicity and antifertility effects of Artemisia Kopetdaghensis	Advances in Pharmacological Sciences Article ID 745760, 5 pages	http://dx.doi.org/10.1155/2014/745760	2014
28	Effects of saffron extract and crocine on anthropometrical, nutritional and lipid profile parameters of rats fed a high fat diet	J Functional Foods 8: 180-187	www.elsevier.com/locate/jff	2014
29	Protective effect of pomegranate seed oil against mercuric chloride-induced nephrotoxicity in rat	Renal Failure. 36(10):1581-86	www.tandfonline.com/loi/irnf20	2014
30	Effect of Zirconium Dioxide Nanoparticles on Glutathione Peroxidase Enzyme in PC12 and N2a Cell Lines	Iranian J of Pharm. Res. 13 (4): 1141-1148	www.ijpr-online.com	2014
31	Effect of pomegranate seed oil against gentamicin –induced nephrotoxicity in rat	J Food Science & Technology. 51(11):3510 –14		2014
32	Protective effect of pomegranate seed oil against cisplatin-induced nephrotoxicity in rat	Renal Failure. 37(8): 1338–1343	www.tandfonline.com/loi/irnf20	2015
33	Synergistic, cytotoxic and apoptotic activities of olmesartan with NF- κ B inhibitor against HeLa human cell line	Toxicology mechanisms and methods. 25(8); 614-621	www.tandfonline.com/loi/itxm20	2015
34	Pomegranate Seed Oil: A Comprehensive Review on Its Therapeutic Effects	International Journal of Pharmaceutical Science and Research.7(2);1000-13	www.ijpsr.com	2016
35	Oxidative stress-mediated cytotoxicity of zirconia nanoparticles on PC12 and N2a cells	Journal of Nanoparticle Research. 18:14. DOI 10.1007/s11051-015-3316-7	www.springer.com/materials/nanotechnology	2016
36	Protective effect of diosgenin against H2O2-induced oxidative stress on H9C2 cells	Journal of Cell and Molecular Research. : 8(2): 58-64	https://jcmr.um.ac.ir	2016
37	Effects of pomegranate seed oil on oxidative stress markers, serum biochemical parameters and pathological findings in kidney and heart of streptozotocin-induced	Renal Failure 38(8): 1256-66	www.tandfonline.com/loi/irnf20	2016

	diabetic rats			
38	Protective effect of pomegranate seed oil against mercuric chloride-induced hepatotoxicity in rat	Acta Poloniae Pharmaceutica - Drug Research. 73(4) 991 –97	www.actapoloniaepharmaceutica.p	2016
39	Boswellia serrata Protects Against Glutamate-Induced Oxidative Stress and Apoptosis in PC12 and N2a Cells.	DNA and Cell Biology 35(11): 666-679.	www.liebertpub.com/loi/dna	2016
40	Angiotensin II receptor antagonist olmesartan and NF-kappaB inhibitor as cytotoxic and apoptotic agents in MCF-7 human cell line	Journal of Chemotherapy. 28 (4): 314-320	www.tandfonline.com/loi/yjoc20	2016
41	Protective effects of saffron extract and crocin supplementation on fatty liver tissue of high-fat diet-induced obese rats	BMC Complementary and Alternative Medicine. 16:401. DOI 10.1186/s12906-016-1381-9	https://bmccomplementalterm.med.biomedcentral.com/	2016
42	Histopathological Changes In The Kidney And Pancreatic Tissues Following Eight Weeks Consumption Of Saffron In High-fat Diet Induced	Malaysian J. of Microscopy. 12: 12-19	http://mjmm.msm.org.my/index.php	2016
43	Protective effect of pomegranate seed oil against H2O2 - induced oxidative stress in cardiomyocytes	Avicenna J Phytomedicine. 7(1): 47-53	ajp.mums.ac.ir	2017
44	Brown propolis attenuates cerebral ischemia-induced oxidative damage via affecting antioxidant enzyme system in mice	Biomed & Pharmacother. 85: 503-510	http://dx.doi.org/10.1016/j.biopha.2016.11.057	2017
45	Neuroprotective effect of brown propolis on ischemic neuronal damage in mice: a possible anti-inflammatory property	International Journal of Clinical Medicine.		2017
46	The Cross-Regulation Between SOX15 and Wnt Signaling Pathway	J Cell Physiology. . doi: 10.1002/jcp.25802	wileyonlinelibrary.com/journal/jcp	2017
47	Effects of pomegranate seed oil on oxidant/antioxidant balance in heart and kidney homogenates and mitochondria of diabetic rats and high glucose-treated H9c2 cell line	Avicenna J Phytomedicine. 7:317-333	ajp.mums.ac.ir	2017
48	Nephrotoxicity and Hepatotoxicity of Capparis Spinosa hydro-Alcoholic Extract in Mice	JOJ uro & nephron. 4(3). DOI: 10.19080/JOJUN.2017.04.555640	https://juniperpublishers.com/joj/un/classification.php	2017
49	Protective effect of <i>Rheum turkestanicum</i> against cisplatin by reducing oxidative stress in kidney tissue	J pharmacy and Bioallied Sciences. 10: 66-71	www.jpbonline.org	2018
50	Protective effect of <i>Rheum turkestanicum</i> root against mercuric chloride-induced hepatorenal toxicity in rats	Avicenna J Phytomedicine 8(6): 488-497	ajp.mums.ac.ir	2018
51	Association of Epstein-Barr virus with Esophageal Squamous Cell Carcinoma	Middle East Journal of Cancer	mejcs.sums.ac.ir	2018
52	Everolimus, a mammalian target of rapamycin inhibitor, ameliorated streptozotocin-induced learning and memory deficits via neurochemical alterations in male rats	EXCLI Journal, 17; 999-1017	www.excli.de	2018
53	Protective effect of <i>Rheum turkestanicum</i> against gentamicin by reducing oxidative stress in kidney tissue	Iranian J. of Basic Med. Sci. Vol 22;	ijbms.mums.ac.ir	2019
54	A genetic variant in CDKN2A/2B locus was associated with poor prognosis in patients with esophageal squamous cell carcinoma	J cellular Physiology; 234(4):5070-5076	https://onlinelibrary.wiley.com/journal/10974652	2019
55	Evaluation of rheum <i>turkestanicum</i> in hexachlorobutadiene-induced renal toxicity	Drug Research	www.thieme.com	2019
56	3-Acetyl-11-keto-β-boswellic acid attenuated glutamate-induced oxidative injury of PC12 and N2a cells by apoptosis inhibition	Journal of Cellular Biochemistry	https://onlinelibrary.wiley.com/journal/10974644	2019
57	Iranian brown propolis possesses neuroprotective effect against ischemic neuronal damage in mice	J Herbmed Pharmacol. 9(2): 121-129.	http://www.herbmedpharmacol.com	2020
58	Cholinergic agonists inhibit proliferation of human fibroblast-like synoviocytes and monocytic cell lines and reduce VEGF and MMPs expression by these cells	Immunopharmacology and Immunotoxicology	https://www.tandfonline.com/loi/iiip20	2020
59	Ultra-sensitive molecularly imprinted electrochemical sensor for patulin detection based on a novel assembling strategy using Au@Cu-MOF/N-GQDs	Sensors & Actuators: B. Chemical.	https://www.journals.elsevier.com/sensors-and-actuators-b-chemical	2020
60	Safranal protects against ischemia-induced PC12 cell injury through inhibiting oxidative stress and apoptosis	Naunyn-Schmiedeberg's Archives of Pharmacology	https://doi.org/10.1007/s00210-020-01999-8	2021
61	Improved solid phase extraction for selective and efficient quantification of sunset yellow in different food samples	Food Chemistry. 357, 129782	https://doi.org/10.1016/j.foodchem.2021.129782	2021

	using a novel molecularly imprinted polymer reinforced by Fe ₃ O ₄ @UIO-66-NH ₂			
62	Comparison of common and integrated curriculum in general medicine pharmacology course in medical school of Mashhad University of Medical Sciences	The Horizon of Medical Education Development Journal (Persian). 12(4):38-52	https://hmed.mums.ac.ir/article_18903.html	2021
63	Pomegranate seed oil protects against tacrolimus-induced toxicity in the heart and kidney by modulation of oxidative stress in rats	Avicenna Journal of Phytomedicine (AJP) Vol. 12, No. 4, pp. 439-448	https://ajp.mums.ac.ir/article_19703.html	2022
64	Sensitive and specific clinically diagnosis of SARS-CoV-2 employing a novel biosensor based on boron nitride quantum dots/flower-like gold nanostructures signal amplification	Biosensors and Bioelectronics	https://research.mums.ac.ir/general/cartable.action#	2022
65	Standardized extract of <i>Sanguisorba minor</i> attenuates injury in aging rat model via the Nrf2/HO-1 pathway	ACTA neurobiologiae Experimentalis	https://ane.pl/online-first?vol=82&no=4&id=UaqusxTQRDWwgNVM	2022
66	A signal on-off ratiometric electrochemical sensing platform coupled with a molecularly imprinted polymer and CuCo ₂ O ₄ /NCNTs signal amplification for selective determination of gemcitabine	Sensors & Actuators: B. Chemical 371: 132552	https://www.sciencedirect.com/science/article/pii/S0925400522011959?dgcid=author	2022
67	Effect of Bee Pollen on Spermatogram Parameters in Infertile Men	MedPress Journal Gynecology and Obstetrics	http://medpresspublications.com/articles/mpog/mpog-202206003.pdf	2022
68	Protective effect of pomegranate seed oil against D-galactose-induced aging in rats	J Adva. Med. Biochem. Res 31(144)	https://zums.ac.ir/journal/article-1-6714-en.html	2023
69	Potential Anti-inflammatory Activity of Brown Propolis Against Brain Ischemia Damage in Mice.	Caspian J Neurol Sci. 2023; 9(2):61-70	https://doi.org/10.32598/CJNS.9.33.396.1	2023
70	Zirconium dioxide nanoparticles induced cytotoxicity in rat cerebral cortical neurons and apoptosis in neuron-like N2a and PC12 cell lines	<i>Toxicology and Industrial Health</i> , 40(4), 145–155	https://journals.sagepub.com/doi/abs/10.1177/07482337241228622	2024
71	Protective effect of pomegranate seed oil against lead acetate-induced toxicity on the hippocampus and bone marrow in rats	<i>Avicenna J. Phytomedicine</i>	https://ajp.mums.ac.ir/article_26495.html	2025

Publications (Conference Full Papers)

Title of the Article	Title and Place	Websait conference	Date
	7 th Annual Congress of the Asia Pacific Association of Medical Toxicology		Dec. 2008
	8 th Annual Congress of the Asia Pacific Association of Medical Toxicology		Oct 2009

International Refereed Conferences:

Title of the Article	Title and Place	Date

National Refereed Conferences:

Title of the Article	Title and Place	Date
	12 th Iranian cong. Of Biochemistry and 4 th International cong. of Biochemistry and Molecular Biology, MASHHAD, Iran	Sep 2011
	23 rd Iranian Congress of Physiology and Pharmacology,	Feb. 2019

	Chabahar, Iran	
	15 th Iranian Congress of toxicology, Tehran, Iran	Nov. 2019
	5th International and 26th National Congress of Physiology and Pharmacology	Oct, 2023

Awards, Honorary Degrees, Medals:

Title	Presented by	Country	Date
Top Researcher in Basic Medical Sciences	Mashhad University of Medical Sciences (MUMS)	Iran	2004
Top Faculty Member in Exam Designing and Performance	Faculty of Medicine (MUMS)	Iran	2015
Top Faculty Member in Exam Designing and Performance	Faculty of Medicine (MUMS)	Iran	2017

Membership to Scientific Associations:

Name of Institution /Association	Country	Date
Iranian Society of Physiology and Pharmacology	Iran	1990
Asia Pacific Association of Medical Toxicology		2004

Activities:

Teaching of Pharmacology (theory and experimental) to the students of medicine, dentistry, nursing and so on
Teaching of pharmacology and toxicology to the postgraduate students
Contribute in re-training programs of pharmacists and GPs in Mashhad University of Medical Sciences

Research Interests:

Nephrotoxicity, Neurotoxicity, Medicinal Plants, Antioxidants, Diabetes