Kobra Shirani

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	https://www.modares.ac.ir/~k.shirani		
Gender	Female		
Date of Birth	4 January 1986		

Nationality Iranian

Language Persian and English

Marital Status Married, with 2 children

	2016 (6 months)	Visiting scientist Research Field	Ludwig-Maximilians-Universität München miRNAs		
	2012- 2018	Ph.D. of Toxicology	Mashhad University of Medical Sciences, Iran		
Ē		Title of thesis: Evaluation of immunotoxicity induced by aflatoxin M1 and its relation to microRNA 155 expression in mice			
aĦio	2010 – 2012	MSc of Toxicology	University of Medical Sciences, Isfahan, Iran		
Education		Title of thesis: Cytotoxicity of different extracts of Ziziphus spina-christi and Securigera securidaca on Hela and MDA-MB-468 tumor cells			
2005-2009 BSc of Cellular and Molecular Biologoralizan		Molecular Biology Alzahra University, Tehran,			
		Assistant Professor			
Professional appointments	2019- present Department of Toxicology, Facult Modares University		ology, Faculty of Medical Sciences, Tarbiat		
ssio ntm		Maternity leave	(12 month)		
Professional ppointment		Industrial sabbatical			
<u> </u>		Water Research Insti	tute (6 month)		
Award	 Ranked among top 1% Iran's National University Entrance Exam, 2005. Ranked five in national university entrance exam for M.Sc degree, 2010. Ranked first in Comprehensive PhD Examination, 2013. Sabbatical Award Scholarship Mashhad University of Medical Sciences, Iran, 2016 				

	Top Talent National Elites Foundation of Iran, 2017.
Skills	Cell isolation
	DNA, RNA isolation
	PCR, q-pcr.
	Western blot.
	Cell culture and primary cell culture
	Immunotoxicity test (HA, DTH, Phagotest,)
	Animal handling
	Working with different apparatus such as HPLC, GC, AAS, etc.
	Risk assessment
	General software: Microsoft Office, EndNote,
	Statistical software: SPSS Sigma Plot, GraphPad Instat, GraphPad Prism.
	1. K Shirani , B Riahi-Zanjani, S.N Omidkhoda, S Barangi, G Karimi, The hematopoietic potential
	of methanolic and aqueous extracts of Portulaca oleracea in a phenylhydrazine model of
	anemia, Avicenna Journal of Phytomedicine (2023).
	2. F Kamranfar, R Pourahmad Jaktaji, K Shirani , A Jamshidi, F Samiei. A Arjmand, M Khoramjouy,
	M Faizi, J Pourahmad. Protective effect of a standardized Allium jesdianum extract in an
	Alzheimer's disease induced rat mode. Neuroscience Letters
	3. Bahareh SY, Kamyar M, Ali Qi, Elahe A, K Shirani *, Jalal P. The selective cytotoxicity of Quercus
	brantii Lindl. galls on A375 and SK-MEL-3 Human Malignant Melanoma cell lines Asian Pacific
	Journal of Cancer prevention (APJCP)
	4. Farideh Shiehzadeh, P Vakili, K Shirani *. Evaluation of immune responses induced by
	hydroalcoholic extract of Allium ampeloprasum. L subsp iranicum in mice. Iranian Journal of
	Pharmaceutical Sciences
	5. BS Yousefsani, A Jamshidi, K Shirani* , J Pourahmad. The Selective Cytotoxicity of The
	Hydroalcoholic Extract of Santalum Album Linn Wood on A375 and SK-MEL-3 Human
	Malignant Melanoma Cells. Iranian Journal of Pharmaceutical Sciences (2022).
	6. BS Yousefsani, A Salimi, F Imani, M Ramezani, K Shirani , E Seydi, J Pourahmad. Risperidone
	Toxicity on Human Blood Lymphocytes in Nano molar Concentrations. Drug Research (2022).
	7. K Shirani , M Iranshahi, VR Askari, Z Gholizadeh, AA Zadeh, M Zeinali,Comparative
	evaluation of the protective effects of oral administration of auraptene and umbelliprenin
blications	against CFA-induced chronic inflammation with polyarthritis in rats. Biomedicine &
<u>.</u>	Pharmacotherapy (2021).
₫	8. BS Yousefsani, M Boozari, K Shirani , A Jamshidi, M Dadmehr. A review on phytochemical and
<u>ic</u>	therapeutic potential of Iris germanica. Journal of Pharmacy and Pharmacology (2021).
đ	9. E Nikkhah, K Shirani , R Rezaee, G Karimi. Protective effects of taurine against hepatotoxicity
Pu	induced by pharmaceuticals and environmental chemicals. Toxicological & Environmental
	Chemistry (2021).
	10. K Shirani , B Riahi Zanjani, S Mehri, K Razavi-Azarkhiavi, A Badiee, miR-155 influences cell-
	mediated immunity in Balb/c mice treated with aflatoxin M1. Drug and chemical toxicology
	(2021).
	11. H Kalantari, MJ Khodayar, K Shirani *, M Shirani. Mycotoxin Contamination of Consumed Rice
	in Iran: A Review. Jundishapur Journal of Natural Pharmaceutical Products (2020).
	12. K Shirani , BS Yousefsani, M Shirani, G Karimi. Protective effects of naringin against drugs and
	chemical toxins induced hepatotoxicity: a review.Phytotherapy Research (2020).
	13. K Shirani , BR Zanjani, M Mahmoudi, AH Jafarian, FV Hassani, JP Giesy, Immunotoxicity of
	aflatoxin M1: as a potent suppressor of innate and acquired immune systems in a subacute
	study. Journal of the Science of Food and Agriculture (2018).
	14. K Shirani , HB Bostan, A Baroti, M Hassanzadeh, Z Khashyarmanesh, Ethanol and methanol
	concentration in commonly used brands of Ma-al-shaeer in Iran: Estimation of dietary intakes
	and risk assessment. Journal of pharmacopuncture (2018).
	15. SF Taghizadeh, R Rezaee, G Davarynejad, J Asili, SH Nemati, K Shirani , G Karimi. Risk
	assessment of exposure to aflatoxin B1 and ochratoxin A through consumption of different
	Pistachio (Pistacia vera I.) cultivars collected from four geographical regions of

...Environmental toxicology and pharmacology (2018).

Pistachio (Pistacia vera L.) cultivars collected from four geographical regions of

- S Balarastaghi, Z Khashaiarmanesh, P Makhdoumi SH Alavizadeh, Z Sameie Moghadam, K Shirani, G Karimi. Determination of toxic element levels (lead and cadmium) in commonly used cosmetic products in Iran. Toxin Reviews (2018).
- 17. K Razavi-Azarkhiavi, MR Jaafari, K Abnous, BM Razavi, AH Jafarian, **K Shirani**, G Karimi. The cardiotoxic mechanism of doxorubicin (DOX) and pegylated liposomal DOX in mice bearing C-26 colon carcinoma: a study focused on microRNA role for toxicity assessment of new ...Pharmaceutical research (2017).
- 18. M Nejabat, H Kahe, K Shirani, P Ghorbannejad, F Hadizadeh, G Karimi. Health risk assessment of heavy metals via dietary intake of wheat in Golestan Province, Iran. Human and Ecological Risk Assessment: An International Journal (2017).
- 19. **K Shirani**, N Shahbazi, MH Khayat, Z Khashayarmanesh, FV Hassani,...Concentration of heavy metals in Iranian market rice and associated population health risk. Quality Assurance and Safety of Crops & Foods (2017).
- 20. A Roohbakhsh, **K Shirani**, G Karimi. Methamphetamine-induced toxicity: the role of autophagy? Chemico-biological interactions (2016).
- 21. FV Hassani, **K Shirani**, H Hosseinzadeh. Rosemary (Rosmarinus officinalis) as a potential therapeutic plant in metabolic syndrome: a review. Naunyn-Schmiedeberg's archives of pharmacology (2016).
- 22. K Razavi-Azarkhiavi, M Iranshahy, A Sahebkar, **K Shirani**, G Karimi. The protective role of phenolic compounds against doxorubicin-induced cardiotoxicity: a comprehensive review. Nutrition and cancer (2016).
- 23. **K Shirani**, FV Hassani, KR Azar-Khiavi, ZS Moghaddam, G Karimi. Determination of methanol in Iranian herbal distillates. Journal of Complementary and Integrative Medicine (2016).
- 24. K Razavi-Azarkhiavi, AH Jafarian, K Abnous, BM Razavi, **K Shirani**, ... The comparison of biodistribution, efficacy and toxicity of two PEGylated liposomal doxorubicin formulations in mice bearing C-26 Colon carcinoma: a preclinical study. Drug research (2016).
- 25. S Sepahi, A Jafarian-Dehkordi, M Mirlohi, **K Shirani**, M Etebari. Protective role of Lactobacillus plantarum A7 against irinotecan-induced genotoxicity. Avicenna journal of phytomedicine (2016).
- 26. NS Alamolhodaei, **K Shirani**, G Karimi. Arsenic cardiotoxicity: An overview. Environmental toxicology and pharmacology (2015).
- 27. FV Hassani, R Rezaee, H Sazegara, M Hashemzaei, **K Shirani**, G Karimi. Effects of silymarin on neuropathic pain and formalin-induced nociception in mice. Iranian journal of basic medical sciences (2015).
- 28. **K Shirani**, FV Hassani, K Razavi-Azarkhiavi, S Heidari, BR Zanjani, ... Phytotrapy of cyclophosphamide-induced immunosuppression. Environmental toxicology and pharmacology (2015).
- 29. V Yousefi Babadi, L Sadeghi, **K Shirani**, AA Malekirad, M Rezaei The toxic effect of manganese on the acetylcholinesterase activity in rat brains. Journal of toxicology (2014).
- 30. **K Shirani**, J Behravan, F Mosaffa, M Iranshahi, B Mehmankhah, ... Evaluating the effects of galbanic acid on hydrogen peroxide-induced oxidative DNA damage in human lymphocytes. Avicenna journal of phytomedicine (2014).
- 31. K Razavi-Azarkhiavi, J Behravan, F Mosaffa, S Sehatbakhsh, **K Shirani**, ... Protective effects of aqueous and ethanol extracts of rosemary on H2O2-induced oxidative DNA damage in human lymphocytes by comet assay. Journal of Complementary and Integrative Medicine (2014).
- 32. EH Reza, **S Kobra**, S Leila, YB Vahid, A Esmaie. Investigation of the zinc oxide nanoparticles effect on testosterone, cholesterol and cortisol in rats. Research Journal of Recent Sciences (2014).
- 33. A Jafarian, B Zolfaghari, **K Shirani**. Cytotoxicity of different extracts of arial parts of Ziziphus spina-christi on Hela and MDA-MB-468 tumor cells. Advanced biomedical research (2014).
- 34. F Mohammadi Fartkhooni, A Noori, M Momayez, L Sadeghi, **K Shirani**, ... The effects of nano titanium dioxide (TiO2) in spermatogenesis in wistar rat. Euro J Exp (2013).
- **35.** HR Espanani, K Shirani, L Sadeghi, V YousefiBabadi and E Amraeai. Investigation of the Zinc Oxide Nanoparticles Effect on Testosterone, Cholesterol and Cortisol in Rats.

Accepted

- 36. Anticancer Activity of Allium jesdianum Extract: A Potential Therapeutic Approach for Melanomanti
- 37. Investigating the Factors Involved in the Development of Attention Deficit Hyperactivity Disorder from a Toxicological Perspective: A Narrative Review Study.
- 38. The Protective Effects of Allium ampeloprasum. L subsp iranicum on Cyclophosphamide-Induced Immunosuppression in NMRI Mice: A promise natural immunomodulator
- 39. Investigating the effect of hydroalcoholic extract of the Allium jesdianum on humoral and cellular indicators of the immune system in a mouse model stimulated with sheep erythrocyte immunogen compared to levamisole

Undre review

- 40. The Gut Microbiota: A Key Player in Cadmium Toxicity Implications for Disease, Interventions, and Combined Toxicant Exposures.
- 41. Possible Neuroprotective Effects of Castor Oil against Malathion-Induced Parkinson Disease in Rats.
- 42. Epicatechin: A Promising Agent Against Arsenic-Induced Neurobehavioral Toxicity in NMRI Mice: Behavioral and Biochemical Alterations.
- 43. Exploring the Immune-Boosting and Hepatoprotective Potential of Allium Jesdianum against Cyclophosphamide-Induced Toxicity in Mice: A Promising Approach for Immunomodulation.
- 44. Investigating the Role of Food Pollutants in Autism Spectrum Disorder: A Comprehensive Analysis of Heavy Metals, Pesticides, and Fungal Toxins

Chapter Book

- 45. Yousefsani, M Dadmehr, **K Shirani**, A Jamshidi, T Sathyapalan, ...Health Benefits of Turmeric and Curcumin Against Food Contaminants. Natural Products and Human Diseases: Pharmacology, Molecular Targets, and Therapeutic Benefits (2021).
- 1. Determination of lead and Cadmium in commonly used brands of cosmetics and sunscreen creams in Mashhad (MSc of Toxicology).
- 2. Evaluation of the inhibitory effect of fenofibrate on the acquisition and reinstatement of ethanol-induced conditioned place preference in mice (**Pharm. D**).
- 3. Determination of ethanol and methanol in commonly used brands of maalshaeer in Iran (**Pharm. D**).
- 4. Searching for the relationship between the concentration of heavy metals in fresh tea leaves (Camellia Sinensis) and Multiple Sclerosis in some cities of Guilan using Geographic Information System software (MSc of Toxicology).
- 5. Evaluation of immune responses induced by hydroalcoholic extract of Allium iranicum in mice (**Pharm. D**).
- 6. Evaluation of immune responses induced by hydroalcoholic extract of Allium jesdianum in mice (MSc of Toxicology).
- 7. Evaluation of Allium ampeloprasum Var Iranicum protective effect on cyclophosphamide induced immunosuppression in NMRI mouse model (**MSc of Toxicology**).
- 8. Evaluation of Allium jesdianum protective effect on cyclophosphamide induced immunosuppression in NMRI mouse model (**MSc of Toxicology**).
- The protective risk of the standardized hydroalcoholic extract of Allium jesdianumplant in the streptozotocin-induced sporadic disease model in rats: focusing on behavioral behaviors, mitochondrial function, oxidative stress indices, acetylcholine and choline activity (Ph.D. of Toxicology).
- 10. Evaluation of anticancer and cytotoxic effects of Quercus brantii Lindl. galls ethanolic extract on SK-MEL3 human melanoma cells (**Pharm. D**).
- 11. Effects of 10-Hydroxy-2-decanic acid diet on gut-brain axis in a cuprizone-induced chronic demyelination mouse model (**Ph.D. of Anatomi**)
- 12. Investigating anticancer and cytotoxic effects of white sandalwood ethanolic extract on human melanoma cancer cell line -3MEL-SK (**Pharm. D**).

Teach ing

- 1. Environmental toxicology (Practical)
- 2. Environmental toxicology (Theoretical)
- 3. Toxicology (Theoretical)
- 4. Toxicology (Practical)
- 5. Forensic toxicology

Membership	 6. Biochemistry 7. Environmental health and pollutants 8. Medical information systems in toxicology 9. Toxicology of natural toxins 10. Anatical toxicology (Practical) 11. Anatical toxicology (Theoretical) • Asia Pacific Association of Medical Toxicology • Member of the Student Research Committee of the Faculty of Medical Sciences, Tarbiat Modares University
Reviewer	 Science of the Total Environment Environmental Science and Pollution Research Toxicology Biomedicine & Pharmacotherapy Cellular Signaling Environmental Toxicology and Pharmacology Journal of Food Composition and Analysis Life Sciences, Pesticide Biochemistry and Physiology Phytomedicine Food & Function Critical Reviews in Food Science and Nutrition Cardiovascular Drug and Therapy BioFactors Iranian Journal of Basic Medical Sciences Jundishapur Journal of Natural Pharmaceutical Products Cancer Chemotherapy and Pharmacology Military Medical Research Food Science & Nutrition Journal of Pharmacy and Pharmacology Avicenna Journal of Phytomedicine ,
REFEREES	1. Dr Gholamreza Karimi 2. Dr Bamdad Riahi Zanjani 3. Dr Afshin Takdastan