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Education:

2006 – 2010: Ph.D of Toxicology – Mashhad University of Medical Sciences and Health Service, Mashhad, IR Iran.

1998 – 2000: MSc of Toxicology and pharmacology – Tehran University of Medical Sciences and Health Service, Tehran, IR Iran.

MSc Thesis:

Title: Evaluation of lung Paraquat toxicity by rat isolated lung perfusion system.

Supervisor: Dr M. Ghazi Khansari, (MSc, PhD).

Ph.D Thesis: __

Title: Molecular mechanisms involved in the effect of Curcumin on apoptosis induced by doxorubicin in rat cardiomyocytes (H9c2).

Supervisor: Prof. Gh.Karimi(PharmD, PhD), Prof. J.Behravan (PharmD, PhD).

Scientific Positions:

- Associate Professor of Toxicology, Toxicology and Pharmacology Department, Faculty of Pharmacy, Kermanshah Medical Sciences University, Kermanshah, Iran. 2011 up to now.
- Research Affairs Director, Faculty of Pharmacy, October 2011 -2017
- Research Affairs Director, Kermanshah University of Medical Sciences, 2017 up to now
- Editorial Board of Journal of Reports in Pharmaceutical Sciences.

Teaching Experience:

- General Toxicology (Theoretical and Practical),
- Clinical Toxicology
- Cell culture
- Pharmacology.
- Nano-safety

Publications

Books

- Leila Hosseinzadeh, Gholamreza Karimi, Javad Behravan: *Curcumin and Doxorubicin: Molecular mechanisms involved in the effect of Curcumin on apoptosis induced by doxorubicin in rat cardiomyoblasts*. 01/2012;
- Prescribing in Pregnancy, 1th edition, Translated to Persian, Mashhad University of Medical Sciences Press, 2012.

Journal Publications

- Sajad Moradi, Komail Sadrjavadi, Negin Farhadian, Leila Hosseinzadeh, Mohsen Shahlaei:
Easy synthesis, characterization and cell cytotoxicity of green nano carbon dots using hydrothermal carbonization of Gum Tragacanth and chitosan bio-polymers for bioimaging.
Journal of Molecular Liquids 06/2018; 259.
- Seyyed Javad Sabounchei, Khadijeh Badpa, Ali Hashemi, Sadegh Salehzadeh, Farahnaz Maleki, Leila Hosseinzadeh: *Synthesis, characterization and theoretical and fluorescence emission microscopy studies of new Pd/Pt-cyclopropa[60]fullerene complexes: Application of Taguchi method for optimization of parameters in Suzuki-Miyaura reaction*. Applied Organometallic Chemistry 05/2018;, DOI:10.1002/aoc.4382

- Niloufar Amin, Abbas Afkhami, Leila Hosseinzadeh, Tayyebeh Madrakian: *Green and cost-effective synthesis of carbon dots from date kernel and their application as a novel switchable fluorescence probe for sensitive assay of Zoledronic acid drug in human serum and cellular imaging*. *Analytica Chimica Acta* 05/2018;, DOI:10.1016/j.aca.2018.05.014
- Seyyed Javad Sabounchei, Khadijeh Badpa, Davood Nematollahi, Mahnaz Sharafikolkeshvandi, Leila Hosseinzadeh, Roya Karamian, Fatemeh Ghasemlou, Robert W. Gable: *New Pd/Pt(II) complexes as unsymmetrical ylides-based chemotherapeutic agents: synthesis, characterization, biological activity, electrochemical, and X-ray studies*. *New Journal of Chemistry* 04/2018; 42(11)., DOI:10.1039/C8NJ00797G
- Leila Hosseinzadeh, Sajad Farhangian, Marziyeh Hajialyani, Arash Bahari, Mohammad Hosein Farzaei: *Acute and Subchronic Toxicological Evaluations of Allium rotundum L. : A Dietary Plant from Iran*. *Journal of Dietary Supplements* 04/2018;, DOI:10.1080/19390211.2018.1452325
- Leila Hosseinzadeh, Shima Soheili, Nastaran Ghiasvand, Farahnaz Ahmadi, Yalda shokoohinia: *Fatty Acid Mixtures from Nigella sativa Protects PC12 Cells from Oxidative Stress and Apoptosis Induced by Doxorubicin*. *Pharmaceutical Sciences* 03/2018; 24(1):15-22., DOI:10.15171/PS.2018.04
- Elham Arkan, Ali Barati, Mohsen Rahmanpanah, Leila Hosseinzadeh, Samaneh Moradi, Marziyeh Hajialyani: *Green Synthesis of Carbon Dots Derived from Walnut Oil and an Investigation of Their Cytotoxic and Apoptogenic Activities toward Cancer Cells*. *Advanced Pharmaceutical Bulletin* 03/2018; 8(1):149-155., DOI:10.15171/apb.2018.018
- Seyyed Zachariah Moradi, Amin Nowroozi, Komail Sadrjavadi, Sajad Moradi, Kamran Mansouri, Leila Hosseinzadeh, Mohsen Shahlaei: *Direct evidences for the groove binding of the Clomifene to double stranded DNA*. *International Journal of Biological Macromolecules* 03/2018; 114., DOI:10.1016/j.ijbiomac.2018.03.040
- Seyyed Javad Sabounchei, Mohsen Sayadi, Ali Hashemi, Sadegh Salehzadeh, Farahnaz Maleki, Davood Nematollahi, Banafshe Mokhtari, Leila Hosseinzadeh: *New Pd/Pt-[60]fullerene complexes of phosphorus ylides as anticancer agents: Cytotoxic investigation and DFT calculations*. *Journal of Organometallic Chemistry* 02/2018; 860., DOI:10.1016/j.jorganchem.2018.02.013
- Yalda Shokoohinia, Fataneh Jafari, Zeynab Mohammadi, Leili Bazvandi, Leila Hosseinzadeh, Nicholas Chow, Piyali Bhattacharyya, Mohammad Hosein Farzaei, Ammad Ahmad Farooqi, Seyed Mohammad Nabavi, Mükerrerrem Betül Yerer, Anupam Bishayee: *Potential Anticancer Properties of Osthol: A Comprehensive Mechanistic Review*. *Nutrients* 01/2018; 10(1)., DOI:10.3390/nu10010036
- Mohsen Shahlaei, Fataneh Jafari, Sajad Moradi, Amin Nowroozi, Komail Sadrjavadi, Leila Hosseinzadeh: *Exploring the Binding Mechanism of Paraquat to DNA by Combination of Spectroscopic, Cellular Uptake, Molecular Docking and Molecular Dynamics Simulation Methods*. *New Journal of Chemistry* 10/2017; 41(23)., DOI:10.1039/C7NJ01645J
- Leila Hosseinzadeh, Hoda Monaghash, Farahnaz Ahmadi, Nastaran Ghiasvand, Yalda Shokoohinia: *Bioassay-guided Isolation of Neuroprotective Fatty Acids from Nigella sativa against 1-methyl-4-phenylpyridinium-induced Neurotoxicity*. *Pharmacognosy Magazine* 10/2017; 13(52):627., DOI:10.4103/pm.pm_470_16

- Yalda Shokoohinia, Sahar Bazargan, Shahram Miraghaee, Etrat Javadirad, Farah Farahani, Leila Hosseinzadeh: *Safety Assessment of Osthole Isolated from Prangos ferulacea: Acute and Subchronic Toxicities and Modulation of Cytochrome P450*. Jundishapur Journal of Natural Pharmaceutical Products 08/2017; In Press(In Press)., DOI:10.5812/jjnpp.63764
- Leila Hosseinzadeh, Alireza Aliabadi, Mohsen Rahnama, HamidMir Mohammad Sadeghi, MarziehRahmani Khajouei: *Synthesis and cytotoxic evaluation of some new 3-(2-(2-phenylthiazol-4-yl) ethyl)-quinazolin-4(3H) one derivatives with potential anticancer effects*. Research in pharmaceutical sciences 08/2017; 12(4):290., DOI:10.4103/1735-5362.212046
- Karim Khoshgard, Parvaneh Kiani, Abbas Haghparast, **Leila Hosseinzadeh**, Mohammad Taghi Eivazi: *Radiation dose rate affects the radiosensitization of MCF-7 and HeLa cell lines to X-rays induced by dextran-coated iron oxide nanoparticles*. International Journal of Radiation Biology 04/2017;, DOI:10.1080/09553002.2017.1321806
- Yald Shokoohinia, Shekoufeh Khajouei, Farahnaz Ahmadi, Nastaran Ghiasvand, **Leila Hosseinzadeh**: *Protective effect of bioactive compounds from Echinophora cinerea against cisplatin-induced oxidative stress and apoptosis in the PC12 cell line*. Iranian Journal of Basic Medical Sciences 04/2017; 20(4)., DOI:10.22038/ijbms.2017.8587
- Hassan Keypour, Masoumeh Mahmoudabadi, Amir Shooshtari, Mehdi Bayat, Mitra Ghassemzadeh, **Leila Hosseinzadeh**, Fariba Mohsenzadeh, Klaus Harms: *Synthesis and characterization of two new N4O2 macrocyclic Schiff-base ligands containing piperazine moiety and mononuclear Co(III) and Cu(II) complexes, spectral, X-ray crystal structural, theoretical studies, cytotoxic and antibacterial properties*. Polyhedron 04/2017; 129., DOI:10.1016/j.poly.2017.03.035
- Hassan Keypour, Masoumeh Mahmoudabadi, Amir Shooshtari, Mehdi Bayat, Mitra Ghassemzadeh, Leila Hosseinzadeh, Fariba Mohsenzadeh, Klaus Harms: *Synthesis and characterization of two new N4O2 macrocyclic Schiff-base ligands containing piperazine moiety and mononuclear Co(III) and Cu(II) complexes, spectral, X-ray crystal structural, theoretical studies, cytotoxic and antibacterial properties*. Polyhedron 03/2017;
- Zohreh Jelodarian, Yalda Shokoohinia, Nastaran Ghiasvand, **Leila Hosseinzadeh**, Mehrdad Iranshahi: *New polyacetylenes from Echinophora cinerea (Boiss.) Hedge et Lamond*. Natural product research 03/2017;, DOI:10.1080/14786419.2017.1300797
- Hassan Keypour, Masoumeh Mahmoudabadi, Amir Shooshtari, Leila Hosseinzadeh, Fariba Mohsenzadeh, Robert William Gable: *Synthesis of Mn(II) and Zn(II) complexes with new macrocyclic Schiff-base ligands containing piperazine moiety: Spectroscopic, structural, cytotoxic and antibacterial properties*. Polyhedron 02/2017; 127., DOI:10.1016/j.poly.2017.02.008
- Masoud Modarresi, Yasin Manoochehri, Farahnaz Ahmadi, Leila Hosseinzadeh: *Protective Effects of Glabridin against Cytotoxicity and Oxidative Stress Induced by Doxorubicin in PC12 Cells*.
- Leila Hosseinzadeh, Alireza Aliabadi Marzieh Rahmani: *Synthesis and cytotoxicity evaluation of some new 6 -nitro derivatives of thiazole-containing 4-(3H)-quinazolinone*. Research in pharmaceutical sciences 05/2016; 11(3).

- Mahdi Mojarrab, Mehran Mehrabi, Farahnaz Ahmadi, Leila Hosseinzadeh: *Protective effects of fractions from Artemisia biennis hydroethanolic extract against doxorubicin-induced oxidative stress and apoptosis in PC12 cells*. Iranian Journal of Basic Medical Science 05/2016; 19(5):803-810.
- Leila Hosseinzadeh, Mahdi Mojarrab Sajjad Nasser Farah Farahani: *Evaluation of antioxidant and cytoprotective activities of Artemisia ciniformis extracts on PC12 cells*.
- Niusha Nikandish, Leila Hosseinzadeh, Katayoun Derakhshandeh, Abbas Hemmati Azandaryani: *The Role of Nanoparticle in Brain Permeability: An in-vitro BBB Model*. Iranian journal of pharmaceutical research (IJPR) 04/2016; 15(2).
- Mahdi Mojarrab, Sajjad Nasser, Leila Hosseinzadeh, Farah Farahani: *Evaluation of antioxidant and cytoprotective activities of Artemisia ciniformis extracts on PC12 cells*. Iranian Journal of Basic Medical Science 04/2016; 19(4):430-438.
- Mahdi Mojarraba, Kiumarth Ghanbaria, Mohammad Shakerib, Zahra-Minoosh Siavash-Haghighic, Leila Hosseinzadeha: *Evaluation of Acute and 8-Week Sub-chronic Toxicities of aromatic water of Rheum ribes in rats*.
- Farahnaz Ahmadi, Mahdi Mojarrab, Mahmoud Ghazi-Khansari, Leila Hosseinzadeh: *A semipolar fraction of petroleum ether extract of Artemisia aucheri induces apoptosis and enhances the apoptotic response to doxorubicin in human neuroblastoma SKNMC cell line*. Research in pharmaceutical sciences 08/2015; 10(4).
- Sh. Heidarian, K. Derakhshandeh, H. Adibi, L. Hosseinzadeh: *Active targeted nanoparticles : Preparation, physicochemical characterization and in vitro cytotoxicity effect*. Research in pharmaceutical sciences 06/2015; 10(3).
- F. Ahmadi, K. Derakhshandeh, A. Jalalizadeh, A. Mostafaie, L. Hosseinzadeh: *Encapsulation in PLGA-PEG enhances 9-nitro-camptothecin cytotoxicity to human ovarian carcinoma cell line through apoptosis pathway*. Research in pharmaceutical sciences 04/2015; 10(2):161-168.
- Bardia Jamali, Maryam Nakhjavani, Leila Hosseinzadeh, Salimeh Amidi, Nastaran Nikounezhad, Farshad H. Shirazi: *Intracellular GSH Alterations and Its Relationship to Level of Resistance following Exposure to Cisplatin in Cancer Cells*. Iranian journal of pharmaceutical research (IJPR) 03/2015; 14(2):513-9.
- Ali Barati, Mojtaba Shamsipur, Elham Arkan, Leila Hosseinzadeh, Hamid Abdollahi: *Synthesis of biocompatible and highly photoluminescent nitrogen doped carbon dots from lime: Analytical applications and optimization using response surface methodology*. Materials Science and Engineering C 02/2015; 47., DOI:10.1016/j.msec.2014.11.035
- Yalda Shokoohinia, Maryam Rashidi, Leila Hosseinzadeh, Zohreh Jelodarian: *Quercetin-3-O-β-D-glucopyranoside, a dietary flavonoid, protects PC12 cells from H₂O₂-induced cytotoxicity through inhibition of reactive oxygen species*. Food Chemistry 01/2015; 167C:162-167., DOI:10.1016/j.foodchem.2014.06.079
- Leila Hosseinzadeh, Farahnaz Ahmadi Katayoun Derakhshandeh Aghdas Jalalizadeh: *Encapsulation in PLGA-PEG enhances 9-nitro-camptothecin cytotoxicity to human ovarian carcinoma cell line through apoptosis pathway*. Research in pharmaceutical sciences 01/2015; 10(2):161.

- Mahdi Mojarrab, A. Khan Mohammadi, L. Hosseinzadeh, Z. Minoosh Siavash-Haghighi: *Antioxidant activity and safety assessment of Tragopogon buphthalmoides hydroethanolic extract: Acute and subchronic toxicities*. Research in pharmaceutical sciences 10/2014; 9(5):359-366.
- Yalda Shokoohinia, Leila Hosseinzadeh, Maryam Alipour, Ali Mostafaie, Hamid-Reza Mohammadi-Motlagh: *Comparative Evaluation of Cytotoxic and Apoptogenic Effects of Several Coumarins on Human Cancer Cell Lines: Osthole Induces Apoptosis in p53-Deficient H1299 Cells*. Advances in Pharmacological Sciences 09/2014; 2014(1):847574., DOI:10.1155/2014/847574
- Yalda Shokoohinia, Leila Hosseinzadeh, Maryam Moieni-Arya, Ali Mostafaie, Hamid-Reza Mohammadi-Motlagh: *Osthole Attenuates Doxorubicin-Induced Apoptosis in PC12 Cells through Inhibition of Mitochondrial Dysfunction and ROS Production*. BioMed Research International 06/2014; 2014(2):156848., DOI:10.1155/2014/156848
- M. Modarresi, L. Hosseinzadeh, N. Nematy, Z.M. Siavash-Haghighi, K. Ghanbari: *Acute and subchronic toxicological evaluation of Stachys lavandulifolia aqueous extract in Wistar rats*. Research in pharmaceutical sciences 05/2014; 9(3-3):165-172.
- Leila Hosseinzadeh, Amanc Khorand, Alireza Aliabadi: *ChemInform Abstract: Discovery of 2-Phenyl-N-(5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl)acetamide Derivatives as Apoptosis Inducers via the Caspase Pathway with Potential Anticancer Activity.. Archiv der Pharmazie* 04/2014; 346(11)., DOI:10.1002/ardp.201300180
- Mahdi Mojarrab, Maryam Jamshidi, Farahnaz Ahmadi, Ellahe Alizadeh, Leila Hosseinzadeh: *Extracts of Artemisia ciniformis Protect Cytotoxicity Induced by Hydrogen Peroxide in H9c2 Cardiac Muscle Cells through the Inhibition of Reactive Oxygen Species*. Advances in Pharmacological Sciences 12/2013; 2013(3):141683., DOI:10.1155/2013/141683
- Majid Afshari, Katayoun Derakhshandeh, Leila Hosseinzadeh: *Characterisation, cytotoxicity and apoptosis studies of methotrexate-loaded PLGA and PLGA-PEG nanoparticles*. Journal of Microencapsulation 10/2013; 31(3)., DOI:10.3109/02652048.2013.834991
- Mahmoud Ghazi-Khansari, Mahdi Mojarrab, Farahnaz Ahmadi, Leila Hosseinzadeh: *The Antiproliferative Effects of Petroleum Ether Extract of Artemisia Aucheri on Human Cancerous Cell Lines*.
- Leila Hosseinzadeh, Hadi Adibia, Leila Hosseinzadeha, Sepideh Farhadib, Farahnaz Ahmadib: *Synthesis and Cytotoxic Evaluation of 6-Amino-4-Aryl-3-Methyl- 2,4-Dihydropyrido[2,3-C]Pyrazole-Carbonitrile Derivatives Using Borax with Potential Anticancer Effects*.
- H. Adibi, L. Hosseinzadeh, M. Mahdian, A. Foroumadi, M.A. Zolfigol, S. Mallakpour: *Synthesis of 7-substituted fluoroquinolone derivatives containing triazolodine dione moiety and in vitro evaluation of their cytotoxic effects*.
- Sayid Mahdi Mirghazanfari, Leila Hosseinzadeh, Yalda Shokoohinia, Majid Aslany, Mohammad Kamali-Nejad: *Acute and subchronic toxicological evaluation of Echinophora platyloba DC (Apiaceae) total extract in Wistar rats*. Clinics (São Paulo, Brazil) 05/2012; 67(5):497-502., DOI:10.6061/clinics/2012(05)15

- Hamid Reza Rasekh, Leila Hosseinzadeh, Soghra Mehri, Mohammad Kamli-Nejad, Majid Aslani, Farahnaz Tanbakoosazan: *Safety Assessment of Ocimum Basilicum Hydroalcoholic Extract in Wistar Rats: Acute and Subchronic Toxicity Studies*. Iranian Journal of Basic Medical Science 03/2012; 15(1):645-653.
- H.N. Tarhan, L. Hosseinzadeh, A. Aliabadi, B. Gholamine, A. Foroumadi: *Cytotoxic and apoptogenic properties of 2-phenylthiazole-4-carboxamide derivatives in human carcinoma cell lines*.
- Leila Hosseinzadeh, Gholamreza Karimi, J. Behravan, Fatemeh Mosaffa: *Activation of Nuclear Factor-kappaB by doxorubicin leads to inhibition of extrinsic pathway of apoptosis in H9c2 cells*. Fuel and Energy Abstracts 08/2011; 205(13)., DOI:10.1016/j.toxlet.2011.05.635
- Leila Hosseinzadeh, Javad Behravan, Fatemeh Mosaffa, Gholamreza Bahrami, Ahmadreza Bahrami, Gholamreza Karimi: *Curcumin potentiates doxorubicin-induced apoptosis in H9c2 cardiac muscle cells through generation of reactive oxygen species*. Food and chemical toxicology: an international journal published for the British Industrial Biological Research Association 02/2011; 49(5):1102-9., DOI:10.1016/j.fct.2011.01.021
- Hosseinzadeh Leila, Behravan Javad, Mosaffa Fatemeh, Bahrami Gholamreza, Ahmad Reza Bahrami, Karimi Gholamreza: *Effect of Curcumin on Doxorubicin-induced Cytotoxicity in H9c2 Cardiomyoblast Cells*. Iranian Journal of Basic Medical Sciences 01/2011; 14(1).
- Hamid R Rasekh, Pardis Nazari, Mohammad Kamli-Nejad, Leila Hosseinzadeh: *Acute and subchronic oral toxicity of Galega officinalis in rats*. Journal of Ethnopharmacology 03/2008; 116(1):21-6., DOI:10.1016/j.jep.2007.10.030
- Farshad H. Shirazi, Yazdanpanah Hassan, Khoshjoo Felor, Hosseinzadeh Laila: *Pistachio Extracts Effects on the Aflatoxin B1 Cytotoxicity in HepG2 Cells*. International Journal of Pharmacology 02/2006; 2(2)., DOI:10.3923/ijp.2006.233.239
- Hamid Reza Rasekh, Yazdanpanah Hasan, Hosseinzadeh Leila, Bazmohammadi Narges, Kamalinejad Mohammad: *Acute and Subchronic Toxicity of Teucrium polium Total Extract in Rats*. Iranian journal of pharmaceutical research (IJPR) 01/2005; 4.

Award and Honor:

- Highest score on Ph.D. qualifying exam (board) of Toxicology in Pharmacy Faculty of Mashhad Medical Sciences University, 2008, Mashhad, IR Iran.
- Second honor graduated student among all medical toxicology students in Tehran Medical Sciences University, 2002, Tehran, Iran.

Skills:

MTT Assay, Toxicity Studies, Apoptosis, Real-Time PCR, Flow Cytometry, Cancer Cell Line, Cell Line, Molecular Biological Techniques, Cancer, Cell Viability, Cancer Cells, A549, Hep G2 Cells, Cell Culture, Cancer Biology, Gene Expression, Cell Proliferation, Cell Signaling, Cancer Cell Biology, Tumor Cell Culture, Cytotoxicity, Molecular Cell Biology, Cell Cycle Analysis, Anticancer Screening, In Vitro Cell Culture, Toxicology, Biochemical Analysis.