



Dr Fatemeh Pourrajab

Assistant Prof of Clinical Biochemistry and Molecular Biology

Personal Information	<ul style="list-style-type: none">• Marital status: Single• Nationality: Iranian• Date of Birth: 19672• Place of Birth: Yazd
Education	<p>PhD in Molecular Biochemistry, September 2009, Biochemistry and Biophysics Institute (I.B.B.), faculty of science, University of Tehran, Iran. With the average of 18.5 out of 20 and project excellent grade of 19.8 out of 20. Thesis subject:</p> <ul style="list-style-type: none">• Investigation on leishmanicidal activities of some new synthetic thiadiazole compounds and their mechanism of action, <p>Master of Science in Molecular Biochemistry, June 2006, Biochemistry and Biophysics Institute (I.B.B.), faculty of science, University of Tehran, Iran. With the average of 17.98 out of 20. Thesis Subject:</p> <ul style="list-style-type: none">• Effect of lead (Pb) on Chromatin components specially Histone Proteins and PARP, DNA strand breaks - sensor enzyme, <p>Bachelor of Science in Cellular & Molecular Biology, June 2004, Biology department, faculty of science, University of Tehran, Iran. Thesis Subject:</p> <ul style="list-style-type: none">• Cancer and Environment, Literature survey and investigating the effect of some agents on polyten chromosomes of drosophila melanogaster, with the average of 17.5 out of 20.•
Professional experience	<ul style="list-style-type: none">• Cell culture and cytotoxicity assays,

	<ul style="list-style-type: none"> • Genomic toxicity assays, • Stem cell Biology and culture, • Molecular lab., RT-PCR, DNA extraction experiences • Genetic lab. , work on drosophila melanogaster chromosomes • PARP & DNA damage – induced apoptosis • Mechanism of microRNAs and their correlation to vascular biomarkers, • Initiation & termination of tRNA in Eukaryotes • Bioinformatics course
<p>Publications</p> <p>Papers:</p>	<ol style="list-style-type: none"> 1. Sirt1 and Parp1 as epigenome safeguards and microRNAs as SASP-associated signals, in cellular senescence and aging, Seyedhossein Hekmatimoghaddam, Ali Dehghani-Firoozabadi, Mohamad Reza Zare-Khormizia, Fatemeh Pourrajab, https://doi.org/10.1016/j.arr.2017.10.001. 2. Underlying mechanisms and chemical/biochemical therapeutic approaches to ameliorate protein misfolding neurodegenerative diseases (PMNDs), Seyedhossein Hekmatimoghaddam², Mohamad Reza Zare-Khormizi¹, Fatemeh Pourrajab ^{1*}, BioFactors. 2016. 3. MicroRNAs; easy and potent targets in optimizing therapeutic methods in reparative angiogenesis, <u>Fatemeh Pourrajaba</u>^{b*}, Abbas Vakili Zarch^a, Seyedhossein Hekmatimoghaddam^c, Mohamad Reza Zare-Khormizi^a, Journal of Cellular and Molecular Medicine, 4. The master switchers in the aging of cardiovascular system, reverse senescence by microRNA signatures; as highly conserved molecules, <u>Fatemeh Pourrajab a, *</u>, Abbas Vakili Zarch <u>a</u>, Seyedhossein Hekmatimoghaddam <u>c</u>, Mohamad Reza Zare-Khormizi <u>a</u>, Progress in Biophysics and Molecular Biology xxx (2015) 1-18. 5. MicroRNA-based system in stem cell reprogramming; differentiation/dedifferentiation , <u>Fatemeh Pourrajaba,b*</u>, Mojtaba Babaei Zarcha, Mohammad Baghi Yazdia, Seyedhossein Hekmatimoghaddam^{c,*} , Mohammad Reza Zare-Khormizia, <u>International Journal of Biochemistry & Cell Biology</u> 55 (2014) 318–328. 6. Application of stem cell/growth factor system, as a multimodal therapy approach in regenerative medicine to improve cell therapy yields, <u>Fatemeh Pourrajab a, *</u>, Mojtaba Babaei Zarch <u>a</u>, Mohammad Baghi Yazdi <u>a</u> ,Abolfazl Rahimi Zarchi <u>c</u>, Abbas Vakili Zarch <u>a</u>. <u>International Journal of Cardiology</u> 173 (2014) 12–19. 7. Cross talk of the first-line defense TLRs with PI3K/Akt pathway, in preconditioning therapeutic approach, <u>Fatemeh Pourrajab1,2</u>, Mohammad Baghi Yazdi^{1*}, Mojtaba Babaei Zarch¹, Mohammadali Babaei Zarch¹ and Seyedhossein Hekmatimoghaddam³, <u>BioMed, Molecular and Cellular Therapies</u> (2015) 3:4. 8. Molecular characteristics of bone marrow mesenchymal stem cells, source of regenerative medicine, <u>Fatemeh Pourrajab a, *</u>, Seyed Khalil Forouzannia <u>a</u>, Seyed Ahmad Tabatabaee <u>a</u>, <u>International Journal of Cardiology</u> (2011).

9. Novel immunomodulatory function of 1,3,4-thiadiazole derivatives with leishmanicidal activity, Fatemeh Pourrajab^{1,2*}, Seyed Khalil Forouzannia¹ and Seyed Ahmad Tabatabaee¹, Journal of Antimicrobial Chemotherapy, 2012.
10. Massive pericardial effusion and rhabdomyolysis secondary to untreated severe hypothyroidism: the first report, Mohamad Reza Zare-Khormizi, Masoud Rahmanian *, Fatemeh Pourrajab, Saber Abarnia, Acta Clinica Belgica.
11. Giant pedunculated polypoid submucosal lipoma of the splenic flexure of colon: case report and review of the literature, MR. Zare-Khormizi¹, M. MOGHIMI², F. POURRAJAB³, pathologica 2014;106:77-81.
12. Molecular Aspects Contributing to Clinical Efficiency of Bone Marrow Stem Cell Transplantation, Fatemeh Pourrajab^{1,2*}, Seyed Khalil Forouzannia¹ and Seyed Hossain Hekmatimoghadam^{1,3}. Int J Cardiovasc Res 1:2. Journal, Vol, No:
13. Circulating levels of interleukin (IL)-12 and IL-13 in Helicobacter pylori-infected patients, and their associations with bacterial CagA and VacA virulence factors. Eskandari-Nasab E¹, Sepanjnia A, Moghadampour M, Hadadi-Fishani M, Rezaeifar A, Asadi-Saghandi A, Sadeghi-Kalani B, Manshadi MD, Pourrajab F, Pourmasoumi H. Scand J Infect Dis. 2013 45(5):342-9.
14. Schwann cell apoptosis and p75(NTR) siRNA. Firouzi M¹, Sabouni F, Deezagi A, Pirbasti ZH, Poorrajab E, Rahimi-Movaghar V. Iran J Allergy Asthma Immunol. 2011 Mar;10(1):53-9.
15. C2C12 Cell Line is a Good Model to Explore the Effects of Herbal Extracts on GLUT4 Expression and Translocation, Fereshteh Ahmadipour¹, Tahereh Vakili², Abdolrahim Absalan³, Javad Mohiti-Ardakani¹, Hosein Hadinedoushan⁴, Mohammadali Khalili⁵, Fatemeh Pourrajab^{1*} IRANIAN JOURNAL OF DIABETES AND OBESITY, VOLUME 4, NUMBER 4, 2012.
16. Cell death features induced in Leishmania major by 1,3,4-thiadiazole derivatives. Sussan K. Ardestani a, Fatemeh Poorrajab b, Sepideh Razmi a, Alireza Foroumadi c, Soheila Ajdary d, Behnaz Gharegozlou e, Mina Behrouzi-Fardmoghadam c, Abbas Shafiee c Experimental Parasitology, 132(2), (2012) 116–22.
17. Selective leishmanicidal effect of 1,3,4-thiadiazole derivatives and possible mechanism of action against Leishmania species, Fatemeh Poorrajab a, Sussan K. Ardestani a,*, Alireza Foroumadi b, Saeed Emami c, Amina Kariminia d, Mina Behrouzi-Fardmoghadam b, Abbas Shafiee. Experimental Parasitology, 121(4), (2009), 323-30.
18. Nitroimidazolyl-1,3,4-thiadiazole-based anti-leishmanial agents: Synthesis and in vitro biological evaluation, Fatemeh Poorrajab a, Sussan Kabudanian Ardestani a, Saeed Emami b, Mina Behrouzi-Fardmoghadam c, Abbas Shafiee c, Alireza Foroumadi c,*, European Journal of Medicinal Chemistry (2008), 44(4), 1758-62.
19. Synthesis and in vitro anti-leishmanial activity of 1-[5-(5-nitrofuranyl)-1,3,4-thiadiazol-2-yl]- and 1-[5-(5-nitrophenyl)-1,3,4-thiadiazol-2-yl]-4-arylpiperazines, Mina Behrouzi-Fardmoghadam, a Fatemeh Poorrajab, b Sussan Kabudanian Ardestani, b Saeed Emami, c Abbas Shafiee and Alireza Foroumadi, Bioorganic & Medicinal Chemistry 16 (2008) 4509–4515.
20. Synthesis and antileishmanial activity of 5-(5-nitroaryl)-2-substituted-thio-1,3,4-thiadiazoles, Eskandar Alipour¹, Saeed Emami², Azadeh Yahya-Meymandi³, Maryam

	<p>Nakhjiri³, Farnaz Johari¹, Sussan K. Ardestani⁴, Fateme Pourrajab⁴, Maryam Hosseini¹, Abbas Shafiee³, and Alireza Foroumadi⁵, Journal of Enzyme Inhibition and Medicinal Chemistry, 2010; 00(00): 000–000</p> <p>21. Synthesis and Leishmanicidal Evaluation of Novel 4-Substituted-2,2-Dimethyl-7-(prop-2-ynyloxy)Chromenes, Babak H. ALIZADEH¹, Alireza FOROUMADI², Susan K. ARDESTANI³, Fateme POORRAJAB³, Abass SHAFIEE²,* Turk J Chem 33 (2009) , 1 – 12.</p> <p>22. Novel antileishmanial chalconoids: Synthesis and biological activity of 1- or 3-(6-chloro-2H-chromen-3-yl)propen-1-ones, Zohreh Nazarian a, Saeed Emami b, Samaneh Heydari c, Sussan K. Ardestani d, Maryam Nakhjiri a, Fateme Pourrajab d, Abbas Shafiee a, Alireza Foroumadi a,c,* European Journal of Medicinal Chemistry 45 (2010) 1424–1429.</p> <p>23. Chromene-Based Synthetic Chalcones as Potent Antileishmanial Agents: Synthesis and Biological Activity, Alireza Foroumadi^{1,2}, Saeed Emami³, Maedeh Sorkhi¹, Maryam Nakhjiri¹, Zohreh Nazarian², Samaneh Heydari², Sussan K. Ardestani⁴, Fateme Pourrajab⁴ and Abbas Shafiee¹,* Chem Biol Drug Des 2010; 75: 590–596. (Y)</p> <p>24. Leishmanicidal Evaluation of Novel Synthetic Chromenes, Babak Heidary Alizadeh¹, Alireza Foroumadi², Susan K. Ardestani³, Fateme Pourrajab³, and, Abbas Shafiee, Arch. Pharm. Chem. Life Sci. 2008, 341, 787 – 793.</p> <p>25. The Hypoglycemic Effect of Dorema aucheri (Bilhar) Extract in Diabetic Type 2 Patients: A First Clinical Trial Amirhossein Tavana, Fateme Pourrajab, Seyed Hossein Hekmatimoghaddam, Seyed Hossein Khalilzadeh, Mohammad Hassan Lotfi International Journal of Pharmaceutical and Clinical Research September 2015 – October 2015; Volume7, Issue5.</p> <p>26. Sesquiterpenes of Dorema aucheri, act as PPAR-γ inducers to activate ROS metabolism Mohammadreza Nahvinejad¹, Fateme Pourrajab^{1*}, Seyedhossein Hekmatimoghaddam² Herbal medicine, 2016.</p> <p>27. Elevated levels of miR-499 protects ischemic myocardium against UA in patients undergoing off-pump CABG, Fateme Pourrajab ², Marzieh Sharifi¹, Seyedhossein Hekmatimoghaddam³, COR ET VASA, Elsevier, 2016.01.28.</p> <p>28. Circulating miR-126 and miR-499 reflect progression of cardiovascular disease; correlations with uric acid, cardiac troponin I, Fateme Pourrajab ², Masoud Khanaghaei^{1*}, Marzieh Sharifi¹, Fereshtah Tourkianvalashani¹, Seyedhossein Hekmatimoghaddam³, Mahdi Rahaie⁴, Nasrin Ghasemi¹, Seyed Mehdi Kalantar¹, Zahra Heydari⁴, Vahid Khorramshahi⁴, Heart International, 2016.</p>
<p>Professional memberships</p>	<ul style="list-style-type: none"> • Stem cell research commission • Center of Stem Cell Research and Regenerative Medicine • Center of Immunological Research in Reproductive Medicine

<i>Language</i>	<ul style="list-style-type: none">• English
<i>Hobby</i>	<ul style="list-style-type: none">• Music