



Personal Information: Dr. Kamran Mansouri

Address: Medical Biology Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran. Telefax: +98-833-427-6471; kmansouri@kums.ac.ir

Birth date: 24/4/1977

Marital status: Married

Cell Phone: +9838228664

Languages: Persian (Native), English and Kurdish

Email Addresses: kmansouri@kums.ac.ir

kamranmansouri@gmail.com

LinkedIn Profile:

<https://www.linkedin.com/in/kamran-mansouri-73a93337>

Education

Feb 2011 – Feb 2016

Ph.D. in Molecular Medicine, Tehran University of Medical sciences

Sep 1998 – Sep 2001

M.Sc. Laboratory Hematology, tarbiat Modares University

Sep 1996 – sep 1998

B.Sc. Medical Technology, Ahwaz University

Research Experience

In vivo

1. 5 years of experience working in in vivo studies with different mouse and rat strains (1400 hours).
2. 15 years of experience working in in vivo angiogenesis models (corneal micropocket, chick chorioallantoic membrane, rodent mesentery, subcutaneous (s.c.) sponge/matrix/alginate microbead, s.c. Matrigel plug, s.c. disc, and s.c. directed in vivo angiogenesis assays).

In vitro

3. Gene Cloning (T) in cancer cell lines.
4. Photochemical internalization application for improving intracellular activity of peptide nucleic acid.
5. 15 years of experience working in in vitro angiogenesis models. Investigating the anti-angiogenic effect of several drugs and herbs in 3-D and 2-D angiogenesis models.
6. Isolation and maintenance of skin-derived precursors (SKPs) and their differentiation to melanocytes.
7. Primary culture of skin cells specially Melanocytes.
8. Working with different cell lines e.g. Hela, SK-Br3, HEK293T, MH3924A, Caco-2, THP-1 and etc.
9. Extraction, purification and application of kiwifruit actinidin for isolation of different cell types.
10. 8 years of experience working in Protein electrophoresis , Western Blot, Molecular Technique including PCR, RT-PCR, Real time PCR, Bioinformatics, Primer design,.....)

Honors & Awards

2011 Grant winner of international Razi Festiva I (Second Place) , **Iran.**

2012 Grant winner of Shamsipour Festival (Second Place), *Kermanshah, Iran.*

2010-2016 Distinguished Researcher in Kermanshah University of Medical Sciences, *Iran*

Courses, workshops & Internships

2016 Cellular and genetic medicine CRISPR/CAS9, *Iran.*

2015 Phage Display Pasteur Institute of Iran. **Iran**

2014 Immunoinformatics and vaccine design. **Iran**

2013 FISH Technique in Royan Institute, **Iran**

2011 Gene Cloning, Iran University of Medical sciences, **Iran**

2011 Proteomics: Workshop of Proteomics, Tehran, *Iran.*

2009 Stem Cell and tissue engineering, Tehran, *Iran.*

Supervision/Teaching/ Management

Supervision of more than 40 students, for Cell culture / molecular cloning / light and fluorescent microscopy
Teaching in Hematology, cancer Genetics, Angiogenesis models, Primer design, Cellular and Molecular Lab (16 semester)

Head of of Molecular Medicine Kermanshah University of Medical sciences (2 years)

Experimental techniques

Molecular Techniques:

- 1) DNA & RNA extraction
- 2) Primer Design
- 3) RT-PCR & q-PCR
- 4) RFLP
- 5) Molecular Cloning
- 6) Transfection

Imaging Techniques:

- 1) Optical Imaging
- 2) Fluorescent microscopy

In vitro & In vivo

Techniques:

- 1) Primary cell culture
- 2) Cell line & Stem cell culture
- 3) Angiogenesis assay
- 4) Immunocytochemistry
- 5) IP, IV, SC & oral injection

6) Xenograft mice model

Protein assay Techniques:

- 1) Extraction and purification
- 2) Electrophoresis
- 3) Western blotting
- 4) Gel Zymography

References

Dr. Ali Mostafaie

(Dean of Medical Biology Research Center)

Associate Professor of immunology, Medical Biology Research Center., Kermanshah University of Medical Science, Kermanshah, IRAN. E-mail: amostafaie@kums.ac.ir
Tel: (+98 831)4276471 P.O.Box:1568

Prof Zuhair Mohammad Hassan

(Advisor of my M.Sc. Thesis)

Full professor of Immunology, Immunology Dep., School of Medical Sciences, Tarbiat Modarres University, Tehran, IRAN E-mail: hasan_zm@modares.ac.ir
www.modares.ac.ir/med/Hasan
Tel: (+98 21) 88011001 P.O.Box:14115-111

Dr. Reza Meshkani

Assistant Professor of Clinical Biochemistry, Biochemistry Dep., Faculty of Basic Medical

Sciences, Tehran University of Medical Sciences, Tehran, IRAN E-mail:

rmeshkani@sina.tums.ac.ir

Tel: +98 9124901096

Dr. Masoud Solimani

Asistant Professor of Laboratory Hematology, Hematology Dep., School of Medical Sciences, Tarbiat Modarres University, Tehran, IRAN. E-mail: Solimanim@modares.ac.ir

www.modares.ac.ir/med/solimanim

Tel: +98 21 82883832 P.O.Box:14115-111 Fax: +98 21 88013030

Publications

Poster presentation:

- 30 Oral and poster presentations at various conferences and seminars

Others:

- Translation of books about Apoptosis, Angiogenesis, Quality control of Hematology, End Note, in Persian.
- Peer reviewer in several journals (e.g. Pharmaceutical Biology journal and Plos One.)

Articles:

- 1-Mozhgan Jahania, Mehri Azadbakht, Fatemeh Norooznehada, Kamran Mansouria, L-arginine alters the effect of 5-fluorouracil on breast cancer cells in favor of apoptosis. *Biomedicine & Pharmacotherapy* 88 (2017) 114–123
- 2-Rasouli H, Parvaneh S, Mahnam A, Rastegari-Pouyani M, Hoseinkhani Z, Mansouri K. Anti-angiogenic potential of trypsin inhibitor purified from Cucumis melo seeds: Homology modeling and molecular docking perspective. *Int J Biol Macromol.* 2017 Mar;96:118-128. doi: 10.1016/j.ijbiomac.2016.12.027.
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- 3-Chamani R, Asghari SM, Alizadeh AM, Mansouri K, Doroudi T, Kolivand PH, Ghafouri H, Ehtesham S, Rabouti H, Mehrnejad F. The antiangiogenic and antitumor activities of the N-terminal fragment of endostatin augmented by Ile/Arg substitution: The overall structure implicated the biological activity. *Biochim Biophys Acta.* 2016 Dec;1864(12):1765-1774. doi: 10.1016/j.bbapap.2016.09.014
- 4-Soleymani B, Hafezian SH, Mianji GR, Mansouri K, Chaharaein B, Tajemiri A, Sharifi Tabar M, Mostafaie A. Bovine Sex Determining Region Y: Cloning, Optimized Expression, and Purification. *Anim Biotechnol.* 2016 Aug 10:1-9.
- 5-Identification and characterization of a novel nanobody against human placental growth factor to modulate angiogenesis. Arezumand R, Mahdian R, Zeinali S, Hassanzadeh-Ghassabeh G, Mansouri K, Khanahmad H, Namvar-Asl N, Rahimi H, Behdani M, Cohan RA, Eavazalipour M, Ramazani A, Muyltermans S. *Mol Immunol.* 2016 Oct;78:183-192. doi: 10.1016/j.molimm.2016.09.012
- 6-Malih S, Saidijam M, Mansouri K, Pourjafar M, Tafakh MS, Talebzadeh F, Najafi R. Promigratory and proangiogenic effects of AdipoRon on bone marrow-derived mesenchymal stem cells: an in vitro study. *Biotechnol Lett.* 2016 Sep 15. [Epub ahead of print]

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- 7-Rasouli H, Farzaei MH, Mansouri K, Mohammadzadeh S, Khodarahmi R. *Molecules*. 2016 Aug 23;21(9). pii: E1104. doi: 10.3390/molecules21091104. Review. *Plant Cell Cancer: May Natural Phenolic Compounds Prevent Onset and Development of Plant Cell Malignancy? A Literature Review*.
- *Molecules*. 2016 Aug 23;21(9). pii: E1104. doi: 10.3390/molecules21091104. Review.
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- 8-Pourjafar M, Saidijam M, Mansouri K, Malih S, Ranjbar Nejad T, Shabab N, Najafi R. Cytoprotective effects of endothelin-1 on mesenchymal stem cells: an in vitro study. *Clin Exp Pharmacol Physiol*. 2016 Aug;43(8):769-76. doi: 10.1111/1440-1681.12590.
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- 9- Shahangian SS, H Sajedi R, Hasannia S, Jalili S, Mohammadi M, Taghdir M, Shali A, Mansouri K, Sariri R. A conformation-based phage-display panning to screen neutralizing anti-VEGF VHHs with VEGFR2 mimicry behavior. *Int J Biol Macromol*. 2015 Jun;77:222-34. doi: 10.1016/j.ijbiomac.2015.02.047. Epub 2015 Mar 5.
- 11-Mona Pourjafar, Massoud Saidijam, kamran Mansouri, Sara Malih, Taybeh Ranjbar, Nooshin Shabab, Rezvan Najafi: Cytoprotective effects of endothelin-1 on mesenchymal stem cells: an in vitro study. *Clinical and Experimental Pharmacology and Physiology* 05/2016; DOI:10.1111/1440-1681.12590
- 12-Nahid Shahabadi, Monireh Falsafi, Kamran Mansouri: Improving antiproliferative effect of the anticancer drug cytarabine on human promyelocytic leukemia cells by coating on Fe₃O₄@SiO₂ nanoparticles. *Colloids and surfaces B: Biointerfaces* 02/2016; 141. DOI:10.1016/j.colsurfb.2016.01.054
- 13-Fatemeh Sheikhabaehi, Mozafar Khazaei, Arezou Rabzia, Kamran Mansouri, Ali Ghanbari: Protective Effects of Thymoquinone against Methotrexate-Induced Germ Cell Apoptosis in Male Mice. *International journal of fertility & sterility* 01/2016; 9(4).
- 14-Kamran Mansouri, Ali Mostafaei, Davood Rezazadeh, Mohsen Shahlaei, Mohammad Hossein Modarressi: New function of TSGA10 gene in angiogenesis and tumor metastasis: A Response to a challengeable paradox. *Human Molecular Genetics* 11/2015; DOI:10.1093/hmg/ddv461
- 15-M Mehrabani, M Najafi, T Kamarul, K Mansouri, M Iranpour, M H Nematollahi, M Ghazi-Khansari, A M Sharifi: Deferoxamine preconditioning to restore impaired HIF-1-mediated angiogenic mechanisms in adipose-derived stem cells from STZ-induced type 1 diabetic rats. *Cell Proliferation* 10/2015; 48(5). DOI:10.1111/cpr.12209
- 16-M.R. Nikbakht, M.N. Zarif, F. Oubari, K. Mansouri, R.H. Kia, M.H. Kia, A.T. Miri: Mesenchymal stem cell transplantation: Immunobiology, therapeutic applications and challenges- a review article. *Scientific Journal of Kurdistan University of Medical Sciences* 07/2015; 20(3).
- 17-Reyhane Chamani, S Mohsen Asghari, Ali Mohammad Alizadeh, Sedigheh Eskandari, Kamran Mansouri, Reza Khodarahmi, Majid Taghdir, Zahra Heidari, Ali Gorji, Alireza Aliakbar, Bijan Ranjbar, Khosro Khajeh: Engineering of a disulfide loop instead of a Zn binding loop restores the anti-proliferative, anti-angiogenic and anti-tumor activities of the N-terminal fragment of endostatin: Mechanistic and therapeutic insights. *Vascular Pharmacology* 07/2015; 72. DOI:10.1016/j.vph.2015.07.006
- 18-Ali R. Jalalvand, Mohammad-Bagher Gholivand, Hector C. Goicoechea, Thomas Skov, Kamran Mansouri: Mimicking enzymatic effects of cytochrome P450 by an efficient biosensor for in vitro detection of DNA damage. *International Journal of Biological Macromolecules* 05/2015;
- 19-S. Shirin Shahangian, Reza H Sajedi, Sadegh Hasannia, Shirin Jalili, Mohammad Mohammadi, Majid

Taghdir, Abbas Shali, Kamran Mansouri, Reyhaneh Sariri: A conformation-based phage-display panning to screen neutralizing anti-VEGF VHHs with VEGFR2 mimicry behavior. *International Journal of Biological Macromolecules* 03/2015; 77. DOI:10.1016/j.ijbiomac.2015.02.047

- 20-D. Reza zadeh, M.-T. Moradi, A. Kazemi, K. Mansouri: Childhood Pre-B acute lymphoblastic leukemia and glutathione S-transferase omega 1 and 2 polymorphisms. *International journal of laboratory hematology* 02/2015; 37(4). DOI:10.1111/ijlh.12332
- 21-Maryam Mehrabi, Kamran Mansouri, Saman Hosseinkhani, Reza Yarani, Kheirollah Yari, Mitra Bakhtiari, Ali Mostafaie: Differentiation of human skin-derived precursor cells into functional islet-like insulin-producing cell clusters. *In Vitro Cellular & Developmental Biology - Animal* 01/2015; 51(6). DOI:10.1007/s11626-015-9866-2
- 22-Mohammad Mostafa Nadi, Mohammad Reza Ashrafi Kooshk, Kamran Mansouri, Seyyed Abolghasem Ghadami, Mojtaba Amani, Siroos Ghobadi, Reza Khodarahmi: Comparative Spectroscopic Studies on Curcumin Stabilization by Association to Bovine Serum Albumin and Casein: A Perspective on Drug-Delivery Application. *International Journal of Food Properties* 12/2014; 18(3). DOI:10.1080/10942912.2013.853185
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- 24-Niloofar Yavari, Farnoosh Emamian, Reza Yarani, Hamid Reza Mohammadi-Motlagh, Kamran Mansouri, Ali Mostafaie: *In vitro inhibition of angiogenesis by heat and low pH stable hydroalcoholic extract of Peganum harmala seeds via inhibition of cell proliferation and suppression of VEGF secretion*. *Pharmaceutical Biology* 12/2014; 53(6). DOI:10.3109/13880209.2014.946057
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- 29-Delnia Arshadi, Kamran Mansouri, Reza Khodarahmi, Parivash Seyfi, Yadollah Shakiba, Ali Mostafaie: *In vitro anti-angiogenic activity of Allium Hirtifolium In vitro Anti-angiogenic Activity of Persian Shallot (Allium Hirtifolium) Extract Is Mediated Through Inhibition of Endothelial Cell Proliferation/Migration and Down-regulation of VEGF and MMP Expression*.
- 30-L.B. Hejazian, M.B. Hejazian, F. Moradi, B. Esmaeilzadeh, F. Moghani Ghoroghi, M. Bakhtiari, A. Aslani, K. Mansouri, M. Nobakht: *Isolation and culture of hair follicle stem cells (HFSCs) and their use for regeneration of the sciatic nerve in rat*. *Journal of the Neurological Sciences* 10/2013; 333. DOI:10.1016/j.jns.2013.07.2323
- 31-Kamran Mansouri, Reza Khodarahmi, Seyyed Abolghasem Ghadami: *An in vitro model for spontaneous angiogenesis using rat mesenteric endothelial cells: Possible therapeutic perspective for obesity and related disorders*. *Pharmaceutical Biology* 06/2013; 51(8). DOI:10.3109/13880209.2013.773452

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- 33-Reza Yarani, Kamran Mansouri, Ali Bidmeshkipour, Maryam Mehrabi, Ali Ebrahimi, Kaikaoos Gholami, Kheirollah Yari, Ali Mostafaie: *Primary culture of human skin melanocyte and comparison of culture in the presence and absence of phorbol ester.* Tehran University Medical Journal 06/2013; 71(3).
- 34-Reza Yarani, Kamran Mansouri, Hamid Reza Mohammadi-Motlagh, Mitra Bakhtiari, Ali Mostafaie: *New procedure for epidermal cell isolation using kiwi fruit actinidin, and improved culture of melanocytes in the presence of leukaemia inhibitory factor and forskolin.* Cell Proliferation 05/2013; 46(3). DOI:10.1111/cpr.12028
- 35-Hadi Adibi, Mohammad Bagher Majnooni, Ali Mostafaie, Kamran Mansouri, Moslem Mohammadi: *Synthesis, and In-vitro Cytotoxicity Studies of a Series of Triazene Derivatives on Human Cancer Cell Lines.* Iranian journal of pharmaceutical research (IJPR) 03/2013; 12(4).
- 36-Mohammad Reza, Ashrafi Kooshk, Kamran Mansouri, Mohammad Mostafanadi, Sina Khodarahmi, Reza Khodarahmi: *In vitro anti-cancer activity of native curcumin ... In Vitro Anti-Cancer Activity of Native Curcumin and " Protein-Curcumin " Systems: A Perspective on Drug-Delivery Application.*
- 37-Kheirollah Yari, Saboor Afzali, Hadi Mozafari, Kamran Mansouri, Ali Mostafaie: *Molecular cloning, expression and purification of recombinant soluble mouse endostatin as an anti-angiogenic protein in Escherichia coli.* Molecular Biology Reports 01/2013; 40(2).
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- 39-Reza Yarani, Kamran Mansouri, Hamid R Mohammadi-Motlagh, Azadeh Mahnam, Mohammad S Emami Aleagha: *In vitro inhibition of angiogenesis by hydroalcoholic extract of oak (Quercus infectoria) acorn shell via suppressing VEGF, MMP-2, and MMP-9 secretion.* Pharmaceutical Biology 11/2012; 51(3). DOI:10.3109/13880209.2012.729147
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- 41-Nima Sanadgol, Ali Mostafaie, Kamran Mansouri, Gholamreza Bahrami: *Effect of palmitic acid and linoleic acid on expression of ICAM-1 and VCAM-1 in human bone marrow endothelial cells (HBMECs).* Archives of medical research 05/2012; 8(2). DOI:10.5114/aoms.2012.28544
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- 45-Mohammad-Bagher Majnooni, Kamran Mansouri, Mohammad-Bagher Gholivand, Ali: *Chemical composition, cytotoxicity and antioxidant activities of the essential oil from the leaves of Citrus aurantium L.* AFRICAN JOURNAL OF BIOTECHNOLOGY 01/2012; 11(2-11).
- 46-Maryam Keshavarz, Ali Bidmeshkipour, D Ph, Ali Mostafaie, Kamran Mansouri, Hamid-Reza Mohammadi-Motlagh: *A r c h v i e o f S I D Anti Tumor Activity of Salvia officinalis is Due to Its Anti-Angiogenic, Anti-Migratory and Anti-Proliferative Effects.* Yakhteh 12/2011; 12(4).
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- 48-Kamran Mansouri, Reza Khodarahmi, Alireza Foroumadi, Ali Mostafaie, Hamidreza Mohammadi Motlagh: *Anti-angiogenic/proliferative behavior of a "4-aryl-4H-chromene" on blood vessel's endothelial cells: A possible evidence on dual "anti-tumor" activity.* Medicinal Chemistry Research 09/2011; 20(7). DOI:10.1007/s00044-010-9418-y
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- 52-Kamran Mansouri, Hamid Reza Mohammadi Motlagh, Maryam Keshavarz: *Tranilast could has potential therapeutic value in the treatment of psoriasis.* Medical Hypotheses 10/2010; 76(2). DOI:10.1016/j.mehy.2010.09.034
- 53-Maryam Keshavarz, Ali Mostafaie, Kamran Mansouri, Ali Bidmeshkipour, Hamid Reza Mohammadi Motlagh, Shahram Parvaneh: *In Vitro and Ex Vivo Antiangiogenic Activity of Salvia officinalis.* Phytotherapy Research 10/2010; 24(10). DOI:10.1002/ptr.3168
- 54-Parivash Seyfi, Ali Mostafaie, Kamran Mansouri, Delnia Arshadi, Hamid-Reza Mohammadi-Motlagh, Amir Kiani: *In vitro and in vivo anti-angiogenesis effect of shallot (Allium ascalonicum): A heat-stable and flavonoid-rich fraction of shallot extract potently inhibits angiogenesis.* Toxicology in Vitro 09/2010; 24(6). DOI:10.1016/j.tiv.2010.05.022
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