***Curriculum Vitae***

**Alireza Zomorodipour** (Ph.D. in Molecular Biology),

Professor

Date of Birth: Sep. 25th 1961

Place of Birth: Tehran, Iran

**Scientific Board Member**

**Dept. of Molecular Medicine**

**Institute of Medical Biotechnology**

**National Institute of Genetic Engineering and Biotechnology (NIGEB)**

**Educations**

## B. Sc. Cell and Molecular Biology, University of Tehran, Iran (1986)

## M. Sc. Genetics, University of Umeå, Sweden (1992)

## Ph. D. Molecular Biology, University of Uppsala, Sweden (1998)

**Contacts**

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**Positions, Honors and Awards**

* **Editor-in-chief of the Iranian Journal of Biotechnology (IJB) (Since 2016)**
* Director of the Institute of Medical Biotechnology at NIGEB, Tehran-Iran (from 2017-2020)
* Head of the section of Molecular Biotechnology at NIGEB, Tehran-Iran (2012-2013)
* Research Grant from Iranian Stem Cell Council (2011).
* Outstanding operational research grant from Tarbiat Modares University, Tehran-Iran (2011)
* **Editorial board member of Journal of Cell and Molecular Research, Ferdowsi University of Mashhad (Since 2010).**
* **Member of Genetics and Biotechnology committee, Academy of Persian Language and Literature (since 2009)**
* **Editorial board member of the IJB (Since 2001).**
* Organizer of 4th workshop on  [Molecular Techniques for Cloning in Bacterial Systems](http://www.nrcgeb.ac.ir/Pdf/Molecular%20Techniques%20for%20Cloning%20in%20Bacterial%20Systems.pdf) [at NIGEB, Tehran-Iran](http://www.nrcgeb.ac.ir/Dr.zomorodi.%20wshop.html) (2006)
* Organizer of 3rd workshop on; Cloning and expression of recombinant proteins in bacterial systems at NIGEB, Tehran-Iran (2006)
* Editorial board member of Farsi Encyclopedia of Biotechnology and Genetics (2003-2005)
* Organizer of workshop on; Cloning and expression of recombinant proteins in bacterial systems, at the Medical University of Sanandaj, Sanandaj-Iran(2005)
* Organizer of the 2nd [workshop on; Cloning and expression of recombinant proteins in bacterial systems at NIGEB, Tehran-Iran (2004)](http://www.nrcgeb.ac.ir/Dr.zomorodi.%20wshop.html)
* Research Grant from ICGEB, Italy (2003)
* Organizer of the first workshop on; Cloning and expression of recombinant proteins in bacterial systems at NIGEB,Tehran-Iran (2003)
* PhD scholarship from Ministry of from the Ministry of Science, Research & Technology, Iran (1993-96)
* MSc scholarship from the Ministry of Science, Research & Technology, Iran (1990-92)

**Active Research Areas**

1. **Approaching an immuno-cell and gene therapy of breast cancer in a mouse model.**
2. **Gene therapy of hemophilia A in a mouse model**
3. **Studying the expression pattern of calumenin in breast and colorectal cancer**
4. Construction of knockout hemophilia A mouse, via interruption of the coagulation factor VIII gene.
5. Construction of knockout colorectal cell line, via interruption of Calumenin gene.
6. Studying the functions miRNAs during cancer development, studying their feasibility in diagnosis and therapy.
7. Expression of the human factor IX in mammalian cells using Adeno Associate Vector, approaching the Gene Therapy of Hemophilia B.
8. [Expression of the human factor IX in](file:///C%3A%5CDocuments%20and%20Settings%5Czomorodi%5Czomorodi%5CDesktop%5CZomorodipour_files%5ChFIX%20expression.htm) mammalian expression systems, studying the function of different genetic elements including; native and heterologous introns, signal pre- and pro- peptide, etc.
9. Expression of the human factor IX in cultured Drosophila cells, studying post-translational modifications of the protein, by the insect enzyme.
10. [Expression of the human coagulation Factor VIII in cultured mammalian cell, studying the function of heterologous introns.](file:///C%3A%5CDocuments%20and%20Settings%5Czomorodi%5Czomorodi%5CDesktop%5CZomorodipour_files%5ChFVIII%20expression.htm)

**Research Interests**

1. **Gene therapy of Hemophilia A**
2. **Targeted therapy of cancer, approaching immune-cell and gene therapy**
3. **Molecular genetics of chemotherapy resistance of cancer**
4. **Calumenin as potential signaling mediator in cancer invasiveness**
5. Functional aspects of introns, as generally conserved entities, within the eukaryotic genomes.
6. [Expression of the human factor IX in](file:///C%3A%5CDocuments%20and%20Settings%5Czomorodi%5Czomorodi%5CDesktop%5CZomorodipour_files%5ChFIX%20expression.htm) mammalian expression systems.
7. [Expression of the human coagulation Factor VIII in mammalian expression systems.](file:///C%3A%5CDocuments%20and%20Settings%5Czomorodi%5Czomorodi%5CDesktop%5CZomorodipour_files%5ChFVIII%20expression.htm)
8. [Periplasmic expression of recombinant proteins in *E. coli*.](file:///C%3A%5CDocuments%20and%20Settings%5Czomorodi%5Czomorodi%5CDesktop%5CZomorodipour_files%5Cperiplasmic%20expression%20of%20proteins%20in%20E.%20coli.htm)
9. [Genomic organization and molecular genetics of prokaryotes](file:///C%3A%5CDocuments%20and%20Settings%5Czomorodi%5Czomorodi%5CDesktop%5CZomorodipour_files%5Cprokariotic%20genomic%20organisation.htm)) [PhD thesis)](http://publications.uu.se/theses/abstract.xsql?lang=en&isbn=91-554-4344-3)

**Teaching Experiences**

- Genetic Engineering

- Advanced Genetic engineering

- Advanced Molecular Biology

- Molecular Biotechnology & Genetic engineering

**Publications**

**73-** Fahimeh Ghasemi, Fatemeh Nikumanesh, Alireza Zomorodipour. Bicistronic and Stable Expression of Human Coagulation Factor IX and Enhanced Green Fluorescent Protein in Suspension-Adapted Chinese Hamster Ovary Cells. Scientific Journal of Kurdistan University of Medical Sciences No.125/ May-July 2023/12-27. The article is in Farsi, and the [English abstract is available](https://biot.modares.ac.ir/article-22-32209-en.html)

72- Fahimeh Ghasemi, et al., Hemophilia treatment approaches, past, present and future submitted (a review paper in Farsi)

71- Aliakbar Haddad-Mashadrizeh, Maryam Moghadam Matin, Mohammad Ehsan TaghavizadehYazdi, Nazanin Gholampour-Faroji, Alireza Zomorodipour, Ahmadreza Bahrami. Direct differentiation of Human Adipose derived Mesenchymal stem cells into vascular tissues in xenotransplantation to rat eyes. Submitted to Preventive Medicine.

70- Mehdi Shamsara, Abbas Jamshidizad, Aidin Rahim-Tayefeh, Maliheh Davari, Ali Rajabi Zangi, Fatemeh Masoumeh, **Alireza Zomorodipour**, Generation of Mice Models of Hemophilia A, by Introducing Novel Mutations, using CRISPR/Nickase Gene Targeting System. Accepted in Cell J (Yakhteh).

69- Ghasemi F, Maddah M, Kalhor H, Khorashadizadeh M, **Zomorodipour A**. The Impacts of G4S Mutation on N-glycosylation and conformation of the Human Coagulation Factor IX GLA domain: In silico and In Vitro Analysis. Submitted

68- Ghasemi F, Zare H**, Zomorodipour A**, Shirzeyli MH, Kieliszek M. In silico and in vitro analysis of a rational mutation in gIII signal peptide and its effects on periplasmic expression of rhGH in E. coli. Archives of Microbiology. 2022 Sep;204(9):1-0.

67- Ghorbani Mahdi, **Zomorodipour Alireza**. **Improvement of Recombinant Human Coagulation Factor IX Expression in Mammalian Cell Lines by Application of Heterologous Signal Peptides. Submitted.**

66**-** Nasri Nasrabadi Parinaz, et al**.** MiR-30a suppresses growth and invasiveness in colorectal cancer cells by targeting Calumenin. Submitted.

65- Parnian J., Hosseindokht M., Khademi, Z., Moosavi M., Soheili ZS., Samiee Sh., **Zomorodipour A.** Calumenin Knockdown, by Intronic Artificial MicroRNA, to Improve Expression Efficiency of the Recombinant Human Coagulation Factor IX**.** Published online, Journal of Biotechnology Letters. 2022. <https://doi.org/10.1007/s10529-022-03249-8>. For full text please klick on; <https://rdcu.be/cLdVG>

64- Ghasemi F, Khorramizadeh MR, Karkhane AA, **Zomorodipour A**. Studying the Expression Efficiencies of Human Clotting Factor IX Analogs, Rationally-designed for Hyper-glycosylation. Iranian Journal of Pharmaceutical Research: IJPR. 2021;20(2):523. DOI: [10.22037/ijpr.2020.112027.13503](https://doi.org/10.22037/ijpr.2020.112027.13503)

63- Aliakbar Haddad-Mashadrizeh, Maryam M. Matin, Fahimeh Shahabipour, Shabnam Ensandost, **Alireza Zomorodipou**r, Ahmad Reza Bahrami. Effects of chitosan-glycerol phosphate hydrogel on the maintenance and homing of hAd-MSCs after xenotransplantation into the rat liver.2021. Emergent Materials. https://doi.org/10.1007/s42247-021-00167-9

62- [Fahimeh Ghasemi](https://biot.modares.ac.ir/search.php?sid=22&slc_lang=en&auth=Ghasemi)**,** [**Alireza Zomorodipour**](https://biot.modares.ac.ir/search.php?sid=22&slc_lang=en&auth=Zomorodipour), [Ali Asghar Karkhane](https://biot.modares.ac.ir/search.php?sid=22&slc_lang=en&auth=Karkhane), [Mohammadreza Khorramizadeh](https://biot.modares.ac.ir/search.php?sid=22&slc_lang=en&auth=Khorramizadeh). Production of a novel hyper-glycosylated human coagulation factor ix in hek293 cells, using a glyco-engineering approach. Modares Journal of Biotechnology. 2020, 11(3): 0-0 (The article is in Farsi, [English abstract is available](https://biot.modares.ac.ir/article-22-32209-en.html))

61- Solmaz Moniri Javadhesari, **Alireza Zomorodipour**. Improvement of the recombinant human coagulation factor IX expression by co-expression of a novel transcript of Drosophila c carboxylase in a human cell line. Biotechnol Lett, Springer Nature B.V. 2020, https://doi.org/10.1007/s10529-020-02936-8

60- Parinaz Nasri Nasrabadi, Zahra Nayeri1, Ehsan Gharib, Reza Salmanipour, Fatemeh Masoomi1, Forouzandeh Mahjoubi3, **Alireza Zomorodipour.**. Establishment of a CALU, AURKA, and MCM2 gene panel for discrimination of metastasis from primary colon and lung cancers. PLOS ONE, May 29, 2020 1-22| https://doi.org/10.1371/journal.pone.0233717

59- Samira Bahrami, Mahmoud Ghaffari, **Alireza Zomorodipou**r. Production of recombinant human factor IX by propeptide modification in Drosophila S2 cell line [*Biotechnol Lett*.](http://www.ncbi.nlm.nih.gov/pubmed/26105559) 2019, doi.org/10.1007/s10529-019-02643-z

58- Mohammad Reza Sam, **Alireza Zomorodipour**, Aliakbar Haddad-Mashadrizeh, Mahdi Ghorbani2, Gholam Ali Kardar, Sohrab Sam. Functions of The Heterologous Intron-derived fragments Intra and Extra Factor IX-cDNA Coding Region on the Human Factor IX expression in HepG2 and Hek-293T cells. Accepted in the Iraninan Journal of Biotechnology (2018)

57- Gholampour-Faroji, Nazanin, Haddad-Mashadrizeh, Aliakbar, Mirahmadi, Mahdi, Monhemi, Hassan, Shahreki-Mojahed, Safoora, Bahrami, Ahmadreza, Housaindokht, Mohammadreza, Matin, M., Maryam, **Zomorodipour, Alireza**, Dadjoo, Parisa and Nohtani Mahdi. In-silico Evidences of Regulatory Roles of WT1 Transcription Factor Binding Sites on the Intervening Sequences of the Human Bcl-2 Gene. Current Bioinformatics, Bentham Science Publishers Vol 13 (2018). DOI: 10.2174/1574893612666170428114551

56*-* **Zomorodipour A**, Jahromi EM, Ataei F, et al. Position dependence of an enhancer activity of the human beta-globin intron-ii, within a heterologous gene. J Mol Med Ther 2017;1(1):19-24.

55- Meisam Jeiranikhameneh, Farzaneh Moshiri, Soheil Keyhan Falasafi, and **Alireza Zomorodipour.** Designing Signal Peptides for Efficient Periplasmic Expression of Human Growth Hormone in *Escherichia coli*, J. Microbiol. Biotechnol (2017), 27(11). doi.org/10.4014/jmb.1703.03080 Research

54**-** [Sam Mohammad Reza, Azadbakhsh Azadeh Sadat, Farokhi Farrah, Rezazadeh Kobra, Sam Sohrab, **Zomorodipour Alireza,** Haddad-Mashadrizeh Aliakbar, et al. 2016. **"Genetic modification of bone-marrow mesenchymal stem cells and hematopoietic cells with human coagulation factor IX-expressing plasmids."** Biologicals: Journal of the International Association of Biological Standardization, biologicals.2016.01.002. Epub 2016 Feb 28. doi:10.1016/j.biologicals.2016.01.002.](http://scicurve.com/paper/26928674)

53- Fahimeh Ghasemi, **Alireza Zomorodipour**, Ali Asghar Karkhane, M.Reza Khorramizadeh*. In silico* designing of hyper-glycosylated analogs for the human coagulation factor IX. Journal of *Molecular Graphics and Modelling* 2016 Jun 7; 68:39-47. doi.org/10.1016/j.jmgm.2016.05.011

52- [Zahra Hajihassan](http://biot.modares.ac.ir/search.php?sid=22&slc_lang=en&auth=Hajihassan)1, [Seyed kazem Hosseini](http://biot.modares.ac.ir/search.php?sid=22&slc_lang=en&auth=Hosseini), [**Alireza Zomorodipour**](http://biot.modares.ac.ir/search.php?sid=22&slc_lang=en&auth=Zomorodipour), [Codon Optimization and Comparison of Recombinant Human Activin A Expression in BL21(DE3)pLysS, BL21(DE3) Rosetta gami and BL21(DE3) Bacterial Hosts](http://biot.modares.ac.ir/article-22-1055-en.pdf). Biotechnology,Tarbiat Modares University [(JMBS) 2016, 7(2): 50-60](http://mjms.modares.ac.ir/browse.php?mag_id=802&slc_lang=en&sid=22). The article is in Farsi, English abstract is available.

51- Shohreh Khorshidi, **Alireza Zomorodipour**, Mehrdad Behmanesh. Studying the effect of human prothrombin’s signal peptide on the secretion efficiency of recombinant human FIX in HEK293T cell line. *Modares Journal of Medical Sciences*: Pathobiology ([MJMS) 2015, 18(2): 27-39](http://lcq.modares.ac.ir/browse.php?mag_id=676&slc_lang=en&sid=30)). The article is in Farsi, English abstract is available.

50- KhorshidiSh., **ZomorodipourA**., Behmanesh M.,Vatandoost J. and Bos M. H.A.. Functional expression of the human coagulation factor IX using heterologous signal peptide and propeptide sequences in mammalian cell line. [*Biotechnol Lett*.](http://www.ncbi.nlm.nih.gov/pubmed/26105559) 2015 Jun 24. DOI: 10.1007/s10529-015-1868-3

49- Solmaz Moniri Javadhesari, **Alireza Zomorodipour** and Spideh Valimehr, A small intron of *Drosophila* gamma carboxylase, not predictable in silico for 1 mammalian splicing machinery*,* is spliced improperly in human cell. *Turkish Journal of Biology*, 2015, 39 (5) 674-681, doi:10.3906/biy-1411-5.

48*-* M. Mazloum-Ardakani, E. Salehpour, M.M. Heidari, **A. Zomorodipour*.*** The effect of pomegranate juice as a natural antioxidantto prevent DNA damages is detectable by application ofelectrochemical methods. *Scientia Iranica C*, 2013, 20 (3), 566–570

47- Azadbakhsh AS, Sam MR, Farrokhi F, **Zomorodipour A.,** Mokarizadeh A. Expression of the human coagulation factor IX in the bone marrow mesenchymal stem cells. ***Iranian South Medical Journal.*** [ISMJ, 2014, 17(2): 130-140](http://ismj.bpums.ac.ir/browse.php?mag_id=36&slc_lang=en&sid=1)

46- Haddad-Mashadrizeh A, Bahrami AR, Matin MM, Edalatmanesh MA, **Zomorodipour A,** Gardaneh M, Farshchian M, Momeni-Moghaddam M. [Human adipose-derived mesenchymal stem cells can survive and integrate into the adult rat eye following xenotransplantation.](http://www.ncbi.nlm.nih.gov/pubmed/23679842) *Xenotransplantation.* 2013 May-Jun;20(3):165-76. doi: 10.1111/xen.12033. Epub 2013 May 16.

45- Haddad-Mashadrizeh A, Bahrami AR, Matin MM, Edalatmanesh MA, **Zomorodipour A,** Fallah A, Gardaneh M, Ahmadian Kia N, Sanjarmoosavi N. [Evidence for crossing the blood barrier of adult rat brain by human adipose-derived mesenchymal stromal cells during a 6-month period of post-transplantation.](http://www.ncbi.nlm.nih.gov/pubmed/23732047) *Cytotherapy.* [Cytotherapy.](https://www.ncbi.nlm.nih.gov/pubmed/23732047) 2013 Aug;15(8):951-60. doi: 10.1016/j.jcyt.2013.03.003. Epub 2013 May 31..

44- Jafar Vatandoost, **Alireza Zomorodipour**. Optimization of transfection and stable expression of human factor IX in Drosophila S2 cell. *Iranian Journal of Biology*,  [27(4](http://cell.ijbio.ir/issue_55_64_Volume%2B27%2C%2BIssue%2B4%2C%2BWinter%2B2015%2C%2BPage%2B598-610%2C%2BPage%2B473-617.html)), Winter 2015, Page 598-610. The article is in Farsi, English abstract is available.

43**-** Amir Amiri Yekta, Azam Dalman, Mohammad Hossein Sanati, Nayeralsadat Fatemi, Hamed Vazirinasab, Alireza Zomorodipour, Mohammad Chehrazi, Hamid Gourabi. Optimization of The Electroporation Conditions for Transfection of Human Factor IX into the Goat Fetal Fibroblasts. *Cell Journal* (Yakhteh), Vol 14, No 4, winter 2013, 270-275

42- Ali Asghar Karkhane, Bagher Yakhchali, Ferdous Rastgar Jazii1, Jafar Hemmat, Parvin Shariati, Mahvash Khodabandeh, **Alireza Zomorodipoor**. Periplasmic expression of *Bacillus thermocatenulatus* lipase in *Escherichia coli* in presence of different signal sequences. *Iranian Journal of Biotechnology,* Vol. 10, No. 4, October 2012. 255

41- Amir Amiri Yekta, Azam Dalman, Poopak Eftekhari-Yazdi, Mohammad Hossein Sanati, Abdol Hossein Shahverdi, Rahman Fakheri, Hamed Vazirinasab, Mohammad Taghi Daneshzadeh, Mahdi Vojgani, **Alireza Zomorodipour** Nayeralsadat Fatemi, Zeinab Vahabi, Shahab Mirshahvaladi, Fariba Ataei, Elmira Bahraminejad, Najmehsadat Masoudi, Mojtaba Rezazadeh Valojerdi, Hamid Gourabi. Production of transgenic goats expressing human coagulation factor IX in the mammary glands after nuclear transfer using transfected fetal fibroblast cells Received: 25 December 2011 / *Transgenic Res*. Springer Science Business Media B.V. 22:131-142 (2013). DOI 10.1007/s11248-012-9634

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Transgenic Res (2013) 22:131–142

DOI 10.1007/s11248-012-9634-y

# 40- Mehdi Shakibaie, Marieh Ghafari Rahbar, Fatemeh, Tabandeh[1](http://www.degruyter.com/dg/viewarticle/j%24002fpolyeng.2012.32.issue-6-7%24002fpolyeng-2011-0114%24002fpolyeng-2011-0114.xml;jsessionid=564E29B024F7A262E6E2D5DA566C4B54#aff1), Hossein Tavana, Alireza Zomorodipour, Sirous Ebrahimi, Mohammad Morshed. Fariba Ataie. Development of PCL-PEG nanofibrous mats as alternative carriers for recombinant Chinese hamster ovary cells. *Journal of Polymer Engineering.* Volume 32, Issue 6-7, Pages 453–461, ISSN (Online) 2191-0340, ISSN (Print) 0334-6447, DOI: [10.1515/polyeng-2011-0114](http://dx.doi.org/10.1515/polyeng-2011-0114), October 2012

39- Jafar Vatandoost, **Alireza Zomorodipour**, Majid Sadeghizadeh, Roghayeh Aliyari, Mettine H.A. Bos, Fariba Ataei. Expression of biologically active human clotting factor IX in *Drosophila* S2 cells: gamma-carboxylation of a human vitamin-K dependent protein by the insect enzyme *Biotechnology progress* 28(1) 45-51 (2012). [doi.org/10.1002/btpr.723](https://doi.org/10.1002/btpr.723)

38- M. Skakibaie, F. Tabandeh, **A. Zomorodipour**, S., Ebrahimi, F. Ataie, H. Habib Ghomi. Improvement of rCHO cell Density and Hetrologous Protein Production: Effect of Culture Conditions. *Curr Trends in Biotech and Pharmac*. Vol. 5(3) 1298-1308 (2011)

37- Mehdi Shakibaie, 1Fatemeh Tabandeh, **Alireza Zomorodipour**, Hossein Mohammad-Beigi, Sirus Ebrahimi and Hasan Habib-Ghomi. Kinetics, Experimental and Simulation Studies of Chinese Hamster Ovary Cell Growth in a Packed-Bed Bioreactor. *World Applied Sciences Journal* 15 (11): 1568-1575, 2011

36- Dalman Azam, Amiri Yekta Amir, Eftekhari-Yazdi Poopak, Sanati Mohammad Hossein1, Shahverdi AbdolHossein2, Fakheri Rahman2, Vazirinasab Hamed1, Daneshzadeh Mohammad Taghi, Vojgani Mahdi, **Zomorodipour Alireza**, Fatemi Nayyeralsadat, Vahabi Zeinab, Masoudi najmehsadat1, Rezazadeh Valojerdi Mojtaba, and Gourabi Hamid. Production of Transgenic Goats, Carrying Human Coagulation Factor IX cDNA, by Nuclear Transfer of Transfected Fetal Fibroblasts. 2010. *Iranian Journal of Biology*. Vol 23(5). 622-637, (2010) (The article is in Farsi, English abstract is available)

35- Mohammad Reza Sam, **Alireza Zomorodipour**, Mohammad Ali Shokrgozar, Fariba Ataei, Aliakbar Haddad-Mashadrizeh, Amir Amanzadeh. Enhancement of the human factor IX expression mediated, by an intron derived fragment from the rat aldolase B gene in cultured hepatoma cells*. Biotechnol Lett*. Jun 18. 32:1385-1392. (2010)

34- Gholam Ali Kardar**, Alireza Zomorodipour**, Mostafa Moin, Zahra Pourpak, Mehdi Sadeghi, Fariba Ataei. The effects of novel mutations in A1 domain of human coagulation factor VIII on its secretion level in cultured mammalian cells. *Iranian Journal of Biotechnology*. 8:3:146-156. (2010)

33- Mahmoud Shavandi, Majid Sadeghizadeh, Khosrow Khajeh, Ghasem Moheb-Ali, **Alireza Zomorodipour**. Genomic structure and promoter analysis of the dsz operon for dibenzothiophene biodesulfurization from Gordonia alkanivorans RIPI90A. *Appl Microbiol Biotechnol.* Jul;87(4):1455-61, (2010)

32- Seyed Javad Hosseini, **Alireza Zomorodipour**, Razieh Jalal, Farzaneh Sabouni and Fariba Ataei. A Study of the Expression of Functional Human Coagulation Factor IX in Keratinocytes, using a Non-Viral Vector Regulated by K14 promoter. *Appl Biochem Biotechnol.*162:1599-1611, (2010)

31**-** Haddad Mashadrizeh A.A., **Zomorodipour** **A**., Izadpanah, M., Sam M.R., , Sabouni. F. and Hosseini S. J. A systematic study of the function of the human beta-globin introns on the expression of the human coagulation factor IX in cultured CHO cells*. J Gene Med*. Jun 29;11 (10):941-950, (2009)

30- Shavandi M. Sadeghizadeh M., **Zomorodipour** **A**. and Khajeh K. Biodesulfurization of dibenzothiophene by recombinant Gordonia alkanivorans RIPI90A. *Bioresource Technology* 100 475–479, (2009)

29- Haddad Mashadrizeh A. A., Sam M. R., Safari, S., **Zomorodipour** **A.**, Hosseini S. J., Sabouni, F. Function of Kozak element on transient expression of a hFIX mini-gene in mammalian cell. *Teb Jonoub iran (Iran South Medicine)* 11:2 98-107, (2009) (The article is in Farsi, English abstract is available)

28- Sedigheh Safari, **Alireza Zomorodipour**and Nour Amirmozaffari. Use of a bacterially expressed human factor IX (hFIX) Gla-Domain to develop polyclonal antibody anti-hFIX. *Appl Biochem Biotechnol*. Nov;159(2):404-14, (2009)

27- Haddad Mashadrizeh A. A., **Zomorodipour** **A**., Hosseini S. J., Sabouni. F. The function of intron-1 of human beta globin gene on the expression of biologically active human factor IX in a mammalian cell line*. Blood(Khoon).* 5:4 209-223, (2009) (The article is in Farsi, English abstract is available)

26- Haddad Mashadrizeh A.A., **Zomorodipour** **A**., Hosseini S. J, Sabouni. F. *In silico* investigation and application of human beta-globin introns as hetrologous elements to increase the expression of human coagulation Factor IX (The article is in Farsi and English abstract is available) Iranian Journal of Biology. 11:2 98-107, (2009)

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2. A collection of Biology terms (Hezar Vajeh in Farsi). No1. Extracted from Directory of approved terms' by Academy of Persian Language and Literature. 1977-2011
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**Thesis supervisions**

***Current PhD-students***

1. **Parinaz Nasri. Thesis title;** Studying the expression pattern of Calumenin and miRNA related in colorectal cancer patients and usage of that candidate miRNA for suppression of Calumennin in SW480 cell line
2. **Babak Jahangiri. Thesis title;** Intratumor immunotherapy in breast cancer mouse model through targeted delivery of mouse IL-12 by Bone Marrow Mesenchymal Stem Cells
3. **Simin Rashidi; Thesis title;** Evaluation of the effect of synthetic anti-calumenin microRNAs, in comparison with a natural microRNA (miR30a), in colorectal cancer.

***Former PhD-students*** *(Supervisory & Advisory)*

1. **Fahimeh Ghasemi.** (PhD student from Tehran Medical University) Thesis title:Application of site-directed mutagenesis for hyper-glycosilation of rhFIX anf its effect on the protein secretion in cultured mammalian cells (2016)
2. **Shoherh Khorshidi.** (PhD student from NIGEB- Tarbiat Modarress University;TMU ) Thesis title**:** Application of the pig protrombin signal pre/pro peptide on the secretion of rhFIX in cultured mammalian cells **(2015)**
3. **Solmaz Moniri . (**PhD student from NIGEB) Thesis title**:** Effect of co expression of Drosophila gamma Carboxylase on the expression of rhFIX in cultured mammalian cells and the function natural microRNA **(2015)**
4. **Haddad-Mashadrizeh Aliakbar. (**PhD student from Ferdowsi University of Mashhad) Thesis title: Investigating the maintenance and differential behavior of human mesenchymal stem cells in different rat xnotransplants (2013)
5. **Jafar Vatandoost.** (PhD student from NIGEB- Tarbiat Modarress University;TMU ) Thesis title: Studying the Expression of the Carboxylated Human Factor IX in The S2 Cell Line of Drosophila. (2013)
6. **Gholamali Kardar. (**PhD student from NIGEB) Thesis title: Mutagenesis of the human coagulation factor VIII for secretion improvement (2010)
7. **Mohammad Reza Sam. (**PhD student from NIGEB) Thesis title: Studying production and level of FIX cDNA expression using a chimeric liver-specific promoter in a human hepatoma cell line (HepG2). (2010).
8. **Seyed Javad Hosseini.** (PhD student from NIGEB-Razi University of Kermanshah) Thesis title: The expression of human factor IX cDNA in human keratinocyte under the regulation of human Keratin 14 gene promoter (2007**)**
9. **Naser Amirizadeh.** (PhD student from TMU) Thesis title: Cloning and expression of human factor VIII in mammalian cells. Performed in NIGEB (2005)
10. **Fatemeh Nadali.** (PhD student from TMU) Thesis title: Drug resistance inhibition of Human Acute Myeloblastic Leukemia Cells by Multidrug Resistance Gene (mdr1) Antisence Oligonucleotides. (2005)
11. **Mahmoud Shavandi.** (PhD student from NIGEB-TMU) Thesis title: Improvement of of the catalytic properties of biodesulfurizating bacterium, Gurdonia *sp. Strain RIPI-B4,* by genetic methods, with the emphasis on sulfate repression alleviation (2009)

***Former MSc-students*** *(Supervisory & Advisory)*

1. **Reza Salmanipour.** Thesis title: Knocking out of *calumenin* gene in colorectal cancer cell line using CRISPR/Cas9 system (2019)
2. **Amiri Zahra.** Thesis title: A study of the effect of calumenin artifitial micro-RNA on Breast cancer cells (2018)
3. **Alireza karimi**. Thesis title: Transient Expression of hFIX in HEK293 cell line using Adeno Associated Vector (2016)
4. **Fatemeh Bahrami**. Thesis title: Studying the pattern of Calumenin gene expression in Iranian Breast cancer patients (2016)
5. **Zahra Khademi**. Thesis title: Validation of the synthetic miRNA against clumenin 5’UTR on the expression of rhFIX in cultured mammalian cells (2015).
6. **Seyed Kazem Hosseini**. Thesis title: Secretion expression of human growth factor Activin A in Escherichia coli (2014).
7. **Javad Parnian**, Thesis title:Studying the function of artificial intronic microRNA against Calumenin in the hFIX cDNA 5’UTR in mammalian cell line (2012)
8. **Maryam Hosseindokht**, Thesis title: Studying the function of artificial intronic microRNA against Calumenin in the hFIX cDNA 3’UTR in mammalian cell line (2012)
9. **Samira Bahrami**, Studying the expression hFIX, when it’s Signal /propetide is replaced with that of the human propetide (2011)
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11. **Ehsan Hashemi**. Thesis title: Effects of Gonadotropin and Estradiol 17-beta hormones on the expression of IGFI , IGFII and TGF genes on the cow oviduct cells. NIGEB. (2010)
12. Mehdi Shakibaie. MSc, NIGEB & Sahand UTech (2008-2009).
13. **Ghorbani Mehdi.** Thesis title: Studying the effect of Gaussia Princps luciferase signal peptide on the secretory expression of human coagulation factor IX in CHO cell line. NIGEB. (2010)
14. **Moin Jahromi Elham**. Thesis title: Studying the function of human beta globin intron-II as the last 3’-end intron on the expression of the human factor IX in CHO cell line, NIGEB. (2010)
15. **Izadpanah Mehrnaz**. Thesis title: Studying the effect of human beta globin intron-2 on the expression of human factor IX in mammalian cells, an M.Sc, NIGEB. (2009)
16. **Haddad-Mashadrizeh** Aliakbar. Thesis title: Studying the effects of human beta globin introns and    kozak lement on the expression of human factor IX in mammalian cells, NIGEB. (2010)
17. **Nasim Abbasi**. Thesis title: [Use of tat secretion system for the periplasmic expression of human growth hormone in E. coli NIGEB. (2007)](http://office.nigeb.ac.ir/Zomorodipour_files/poster%20ESGT.htm)
18. **Meisam Jeiranikhameneh**. Thesis title: Designing and construction of an optimised signal peptide for efficient periplasmic expression of human growth hormone in E. coli NIGEB. (2007)
19. **Sedigheh Safari**. Thesis title: Studying the expression of human factor IX (hFIX) sub fragment(s) in Escherichia coli, for development of specific anti-hFIX antibody, NIGEB, (2007)
20. **Mahin Salman-nejad**. Thesis title: Expression and purification of a bacterially derived heavy chain of human coagulation factor VIII light-chain, NIGEB. (2007)
21. **Amir Amiri** Yekta.Thesis title: Expression and purification of a bacterially derived light-chain of human coagulation factor VIII light-chain, NIGEB. (2005)
22. **Maryam Ghaffari**. Thesis title: Studying the Function of secB Over Expression on the Processing and Translocation of Recombinant Proteins into Periplasmic Space of Escherichia coli. MSc. Thesis, performed in the NIGEB (Winter 2005)
23. **Soheil Keyhan Falsafi**. Thesis title: Use of E. coli Argenine Major Codons of E. coli in the signal Peptide Derived from Bacillus licheniformis Alpha Amylase and Studying its Effect on the Expression Level of Recombinant Proteins in Escherichia coli, performed in NIGEB Tehran-Iran (Winter 2005)
24. **Reza Kheirkhahi** **Oqani**. Thesis title: Human Growth Hormone cDNA Transfer into Mouse Zygotes by Microinjection and PCR Analysis at Cleavage Stage. performed in Iran azad Islamic Univ. (2003)
25. **Sholeh Shams** Akhzar. (MSc student from khatam University) Thesis title: Mutation analysis in the hFVIII gene of 159 Iranian families with haemophilia A. (2004)
26. **Maryam Shahali**. (MSc student from Shahid Besheshti University) Thesis title: Cloning and seretory expression of Recombinant Human granulocyte macrophage stimulating factor in Escherichia coli. (2003)
27. **Fahimeh** **Ghasemi**. Thesis title: Periplasmic Expression of Recombinant Human Growth Hormone under the Control of araBAD Promoter in Escherichia coli. MSc. Thesis, performed in the National Institute for Genetic Engineering and Biotechnology Tehran-Iran (September 2003)
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