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Date of Birth: 1967

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Education:

- Ph.D. Biological Products, Pasteur Institute of Iran, Tehran-Iran, 2001-2006.
- MD, Esfahan University of medical Sciences, Esfahan-Iran 1984-1991.

Thesis title:

Design and construction of a gene construct containing human beta globin gene and transferring it into mammalian cell line by homologous recombination

Expert in:

PCR, Real time PCR, Cloning, PAGE, SDS PAGE, Western blot, lipofection, Cell Culture, Lentiviral vectors, Recombinant probiotic expression in prokaryotic and yeast hosts, Cell and antigen SELEX, Gene Editing tools, Recombinant vaccines, camel antibody(nanobody and phage display). The majority of mutation detection techniques,

Research Experience: Gene therapy by non viral and viral methods and using gene editing tools, cell selex to select DNA antigens, Nanobody and phage display, Recombinant vaccines , Recombinant probiotics

Journal Publications

Nahid Mortazavidehkordi, Akbar Farjadfar, Hossein Khanahmad, Zahra Ghayour Najafabadi, Nooshin Hashemi, Ali Fallah, Ali Najafi, Vahid Kia, Seyed Hossein Hejazi: *Evaluation of a novel lentiviral vaccine expressing KMP11-HASPB fusion protein against Leishmania infantum in BALB/c mice*. Parasite Immunology 08/2016; DOI:10.1111/pim.12356

S Kouhpayeh, A R Einizadeh, Z Hejazi, M Boshtam, L Shariati, M Mirian, L Darzi, M Sojoudi, H Khanahmad, A Rezaei: *Antiproliferative effect of a synthetic aptamer mimicking androgen response elements in the LNCaP cell line*. Cancer gene therapy 07/2016; DOI:10.1038/cgt.2016.26

Haniyeh Fooladinezhad, Hossein Khanahmad, Mazdak Ganjalikhani-Hakemi, Abbas Doosti: *Negative regulation of TIM-3 expression in AML cell line (HL-60) using miR-330-5p*. British journal of biomedical science 06/2016; DOI:10.1080/09674845.2016.1194564

Saied Mostaan, Bahador Yazdanpanah, Rasool Moukhah, HamidReza Hozouri, Manouchehr Rostami, Mohsen Khorashadizadeh, Javad Zerehsaz, Ramin PirhajatiMahabadi, Arya Saadi, Hossein Khanahmad, Mohammad Pooya: *Adverse effects of BCG vaccine 1173 P2 in Iran: A meta-analysis*. 06/2016; 5(1). DOI:10.4103/2277-9175.183659

Laleh Shariati, Mehran Modares, Hossein Khanahmad, Zahra Hejazi, Mohammad Amin Tabatabaiefar, Mansoor Salehi, Mohammad Hossein Modarressi: *Comparison of different methods for erythroid differentiation in the K562 cell line*. Biotechnology Letters 04/2016; 38(8). DOI:10.1007/s10529-016-2101-8

Marzieh Asadi, Roger Foo, MohammadReza Samienasab, AhmadReza Salehi, Majid Kheirollahi, Hossein Khanahmad, Rasoul Salehi: *Genetic analysis of Iranian family with hereditary cardiac arrhythmias by next generation sequencing*. 03/2016; 5(1). DOI:10.4103/2277-9175.178801

- Mahsa Kolahdouz, Mahin Hashemipour, Hossein Khanahmad, Bahareh Rabbani, Mansoor Salehi, Ali Rabbani, Arman Ansari, Mona Mobalegh Naseri: *Mutation detection of CYP21A2 gene in nonclassical congenital adrenal hyperplasia patients with premature pubarche*. 03/2016; 5(1). DOI:10.4103/2277-9175.178794
- Seyed Hamed Mirhoseini, Mahnaz Nikaeen, Zahra Shamsizadeh, Hossein Khanahmad: *Hospital air: A potential route for transmission of infections caused by β -lactam-resistant bacteria*. American journal of infection control 03/2016; DOI:10.1016/j.ajic.2016.01.041
- Seyed Hamed Mirhoseini, Mahnaz Nikaeen, Hossein Khanahmad, Akbar Hassanzadeh: *Occurrence of airborne vancomycin- and gentamicin-resistant bacteria in various hospital wards in Isfahan, Iran*. 01/2016; DOI:10.4103/2277-9175.187399
- Akram Sadeghi, Ebrahim Esfandiary, Javad Hami, Hossein Khanahmad, Zahra Hejazi, Shahnaz Razavi: *Effect of maternal diabetes on gliogenesis in neonatal rat hippocampus*. 01/2016; DOI:10.4103/2277-9175.187376
- Seyedeh Maryam Sharafi, Raheleh Rafiei, Mahboubeh Hadipour, Hedayat Shirzad, Hossein Khanahmad, Hossein Yousofi Darani: *A Nonglycosylated 27 KDa Molecule as Common Antigen between Human Breast Cancer and Echinococcus granulosus Hydatid Cyst Wall*. Advances in Breast Cancer Research 01/2016; 05(02). DOI:10.4236/abcr.2016.52010
- Nahid Eskandari, Mohammad Alihassanzadeh, Mazdak Ganjalikhani-Hakemi, Roya Sherkat, Hossein Khanahmad, Yaghub Yazdani: *Evaluation of BAFF-R Mutations in Iranian Patients with Common Variable Immune Deficiency (CVID)* Nahid Eskandari¹, Mohammad Alihassanzadeh², Mazdak Ganjalikhani-Hakemi^{1*}, Roya Sherkat³, Hossein Khanahmad⁴, Yaghub Yazdani⁵.
- F Pourzadegan, L Shariati, R Taghizadeh, H Khanahmad, Z Mohammadi, M A Tabatabaiefar: *Using intron splicing trick for preferential gene expression in transduced cells: An approach for suicide gene therapy*. Cancer gene therapy 12/2015; 23(1). DOI:10.1038/cgt.2015.57
- Monireh Gholizadeh, Hossein Khanahmad, Arash Memarnejadian, Mohammad Reza Aghasadeghi, Farzin Roohvand, Seyed Mehdi Sadat, Reza Ahangari Cohan, Ali Nazemi, Fatemeh Motevalli, Vahid Asgary, Roghaye Arezumand: *Design and expression of fusion protein consists of HBsAg and Polyepitope of HCV as an HCV potential vaccine*. 12/2015; 4. DOI:10.4103/2277-9175.168610
- Shamsi Naderi Beni, Shirin Kouhpayeh, Zahra Hejazi, Nahid Heidari Hafshejani, Hossein Khanahmad: *Construction and Characterization of Recombinant HEK Cell Over Expressing $\alpha 4$ Integrin*. Advanced Pharmaceutical Bulletin 09/2015; 5(3). DOI:10.15171/apb.2015.058
- Zahra Mohammadi, Laleh Shariati, Hossein Khanahmad, Mahsa Kolahdouz, Fariborz Kianpoor, Jahan Afrooz Ghanbari, Zahra Hejazi, Mansoor Salehi, Parvaneh Nikpour, Mohammad Amin Tabatabaiefar: *A Lentiviral Vector Expressing Desired Gene Only in Transduced Cells: An Approach for Suicide Gene Therapy*. Molecular Biotechnology 05/2015; 57(9). DOI:10.1007/s12033-015-9872-3
- N. Heidari-Hafshejani, S. Naderi, R. Salehi, P. Nikpour, M. Modares-Sadeghi, Z. Hejazi, H. Khanahmad: *Construction and characterization of recombinant HEK cell over-expressing TOSO/FAIM3 and evaluation of its expression*. Journal of Isfahan Medical School 04/2015; 33(324).
- Roghaye Arezumand, Mahdi Behdani, Reza Mahdian, Hossein Khanahmad, Jahangir Langari, Reza Ahangari Cohan, Monireh Gholizadeh, Sirous Zeinali: *Camel Heavy Chain Polyclonal Antibody Raised*

Against Recombinant Murine Placental Growth Factor Expressed in Escherichia coli. Monoclonal Antibodies in Immunodiagnosis and Immunotherapy 04/2015; 34(2). DOI:10.1089/mab.2014.0051

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Mohsen Khorashadizadeh, Masoud Soleimani, Hossein Khanahmad, Ali Fallah, Mahmood Naderi, Mohammadreza Khorramizadeh: *Bypassing the need for pre-sensitization of cancer cells for anticancer TRAIL therapy with secretion of novel cell penetrable form of Smac from hA-MSCs as cellular delivery vehicle.* *Tumor Biology* 01/2015; 36(6). DOI:10.1007/s13277-015-3058-2

Saied Mostaan, Mehdi Ajourloo, Hossein Khanahmad, Reza Ahangari Cohan, Zahra Rikhtegaran Tehrani, Maryam Rezaei, Fateme Fazeli, Sakineh Karimi Zare, Zeinab Karimi, Seyed Hamid Reza Mozhgani, Rasul Moukhah: *A novel combined method for cost-benefit production of DNA ladders.* *Biomedical Research* 01/2015; DOI:10.4103/2277-9175.148298

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M. Moballegh-Naseri, H. Khanahmad, V. Homayouni, M. Ganjalikahni-Hakemi, M. Salehi, I. Rahim-Manesh, R. Taghizadeh, M. Kolahdooz: *Producing recombinant HEK293 T-cells with high expression of T-cell immunoglobulin and mucin domain-3 (Tim3) protein.* *Journal of Isfahan Medical School* 01/2015; 32(317).

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- Roghayeh Arezumand, Reza Mahdian, Mahdi Behdani, Hossein Khanahmad, Jahangir Langari, Nabiollah Namvarasl, Reza Hassanzadeh-Ghasabeh, Sirous Zeinali: *Recombinant expression and purification of human placental growth factor 1 and specific camel heavy chain polyclonal antibody preparation*. Saudi Journal of Biological Sciences 03/2014; 21(1). DOI:10.1016/j.sjbs.2013.04.008
- H. Mirzapour, A. Karamzade, H. Khanahmad, R. Salehi, M. Kheirollahi: *Comparison of inserted mouse IP-10 gene copy number in helper-dependent and independent system based on PiggyBac transposition in human embryonic kidney cells*. Journal of Isfahan Medical School 01/2014; 32(275).
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- Mahdi Behdani, Sirous Zeinali, Morteza Karimipour, Hossein Khanahmad, Steve Schoonooghe, Azam Aslemarz, Negar Seyed, Reza Moazami-Godarzi, Farzad Baniahmad, Mahdi Habibi-Anbouhi, Gholamreza Hassanzadeh-Ghasabeh, Serge Muyldermans: *Development of VEGFR2-specific Nanobody Pseudomonas exotoxin A conjugated to provide efficient inhibition of tumor cell growth*. New Biotechnology 09/2012; 30(2). DOI:10.1016/j.nbt.2012.09.002
- Mahdi Behdani, Sirous Zeinali, Morteza Karimipour, Hossein Khanahmad, Nader Asadzadeh, Kayhan Azadmanesh, Negar Seyed, Seyed Farzad Baniahmad, Mahdi Habibi Anbouhi: *Expression, purification, and characterization of a diabody against the most important angiogenesis cell receptor: Vascular endothelial growth factor receptor 2*. 08/2012; 1(1). DOI:10.4103/2277-9175.100126
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- Mahdi Habibi Anbouhi, Aida Feiz Barazandeh, Saeid Bouzari, Mohsen Abolhassani, Hossein Khanahmad, Majid Golkar, Mohammad Reza Aghasadeghi, Mahdi Behdani, Ali Jahanian-Najafabadi, Mohammad Ali Shokrgozar: *Functional Recombinant Extra Membrane Loop of Human CD20, an Alternative of the Full Length CD20 Antigen*. Iranian biomedical journal 07/2012; 16(3). DOI:10.6091/ibj.1082.2012
- Mahdi Habibi Anbouhi, Mohsen Abolhassani, Saeid Bouzari, Hossein Khanahmad, Mohammad Reza Aghasadeghi, Armin Madadkar-Sobhani, Amir Amanzadeh, Mahdi Behdani, Mohammad Ali Shokrgozar: *Immunological evaluation of predicted linear B-cell epitopes of human CD20 antigen*. Biotechnology and Applied Biochemistry 05/2012; 59(3). DOI:10.1002/bab.1012
- Mahdi Behdani, Sirous Zeinali, Hossein Khanahmad, Morteza Karimipour, Nader Asadzadeh, Keyhan Azadmanesh, Alireza Khabiri, Steve Schoonooghe, Mahdi Habibi Anbouhi, Gholamreza Hassanzadeh-Ghassabeh, Serge Muyldermans: *Generation and characterization of a functional Nanobody against the vascular endothelial growth factor receptor-2; angiogenesis cell receptor*. Molecular Immunology 12/2011; 50(1-2). DOI:10.1016/j.molimm.2011.11.013
- Mohammad Hamid, Frouzandeh Mahjoubi, Mohammad Taghi Akbari, Hossein Khanahmad, Fatemeh Jamshidi, Sirous Zeinali, Morteza Karimipour: *Transient Expression Assay of Aγ-588 (A/G) Mutations in the K562 Cell Line*. Iranian biomedical journal 11/2011; 15(1-2).
- Ahmad Maleki, Armin Madadkar-Sobhani, Farzin Roohvand, Abdolhossein R Najafabadi, Abbas Shafiee, Hossein Khanahmad, Reza A Cohan, Nabiallah Namvar, Hosnieh Tajerzadeh: *Design, modeling, and expression of erythropoietin cysteine analogs in Pichia pastoris: Improvement of mean residence times and in vivo activities through cysteine-specific PEGylation*. European journal of pharmaceutics and biopharmaceutics: official journal of Arbeitsgemeinschaft fur Pharmazeutische Verfahrenstechnik e.V 10/2011; 80(3). DOI:10.1016/j.ejpb.2011.10.017
- Ahmad Maleki, Abdolhossein Rouholamini Najafabadi, Farzin Roohvand, Abbas Shafiee, Hossein Khanahmad, Homa Faghihi, Mohammad H Hedayati, Hosnieh Tajerzadeh: *Evaluation of Bioactivity and Pharmacokinetic Characteristics of PEGylated P.pastoris -Expressed Erythropoietin*. Drug Delivery 09/2011; 18(8). DOI:10.3109/10717544.2011.600782
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- Ahmad Maleki, Farzin Roohvand, Hosnieh Tajerzadeh, Hossein Khanahmad, Maryam B Nobari, Ahmad Beirut, Abdolhossein Rouholamini Najafabadi: *High Expression of Methylophilic Yeast-Derived Recombinant Human Erythropoietin in a pH-Controlled Batch System*. 10/2010; 2(4).

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- Maryam Bikhof Torbati, Hossein Khanahmad, Fatemeh Jamshidi, Morteza Karimipor, Majid Sadeghizadeh, Mohamad Ali Shokrgozar, Amir Amanzadeh, Sirus Zeinali: *HIV type 1-based particles effect in transduction of HT1080 cell line: A technique in β -thalassemia gene therapy*.
- Z. Karimi, Y. Talebkhan, N. Afkhami, S. Saberi, M. Douraghi, A. Oghalaie, H. Khanahmad Shahreza†, M. Mohammadi: *Development of Serologic Method for Screening of H. pylori Infection in High-Risk Patients*. *Helicobacter* 08/2009; 14.
- Rahele Amirkhah, Hossein Khanahmad, Mohammad Abolhassani, Mohammad Pooya, Hesam Movassagh, Mohammad Ali Shokrgozar: *Improvement of bladder cancer immunotherapy by creating a recombinant Bacille Calmette-Gu'erin which secretes p53 protein*. *Medical Hypotheses* 07/2009; 72(6). DOI:10.1016/j.mehy.2009.01.035
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- Bahareh Rabbani, Hossein Khanahmad, Rezvan Bagheri, Nejat Mahdieh, Sirous Zeinali: *Characterization of minor bands of STR amplification reaction of FVIII gene by PCR cloning*. *Clinica Chimica Acta* 09/2008; 394(1-2). DOI:10.1016/j.cca.2008.03.003
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- M. Ebrahimi, T. Kazemi, M. Ganjalikhani-Hakemi, J. Majidi, H. Khanahmad, I. Rahimmanesh, V. Homayouni, S. Kohpayeh: *Development of a stable cell line, overexpressing human T-cell immunoglobulin mucin 1*.

Patents

Conference Proceedings

Laleh Shiri, Modjtaba Emadi-Baygi, Hossein Khanahmad, Parvaneh Nikpour: *My First Poster*. the first international congress on Biology and natural Sciences of Iran; 05/2015

Technical Reports