In The Name of God

Curriculum Vitae
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Amin Ramezani

PhD in Medical Biotechnology

PERSONAL:

SURNAME: RAMEZANI
FIRST NAME: AMIN
DATE OF BIRTH: JUNE 8, 1981
NATIONALITY: IRANIAN
PLACE OF BIRTH: SHIRAZ, IRAN
RESIDENCY: SHIRAZ, IRAN
MARITAL STATUS: SINGLE

QUALIFICATIONS:

1. PhD in Medical Biotechnology, Shiraz University of Medical Sciences, Shiraz, Iran, 2012-2017
2. M. Sc. in Biotechnology, Imam Khomeini International University, Ghazvin, Iran, 2004-2006

SPECIAL TRAINING AND MEMBERSHIPS:

- An Invention titled "Using temperature instead of high voltage in denaturing gels" numbered 37103 in Iranian Organization for Invention Registration, confirmed by Ministry of Industries & Mines.
- Membership in Iranian Inventors Association (number 1070)
- Membership in Student Exceptional Talent Center, Shiraz University of Medical Sciences
- PhD scholarship by the Shiraz University of Medical Sciences: 2015-2017
- Top young biotechnology researcher 1397, selected by Iranian Vice-President for Science and Technology, Biotechnology Development Council

WORK EXPERIENCES:

- Assistant Professor in Medical Biotechnology, Shiraz Institute for Cancer Research, Shiraz University of Medical sciences, Shiraz, Iran, May 2017- now
- Working at the biotechnology laboratory of Biotechnology Institute of Shiraz University as the researcher, 2008-2012
- Teaching more than 20 Real Time PCR technique and Primer Design workshops.

CURRENT RESEARCHEs:

- Production and characterization of biosimilar version of Aflibercept
- Production and characterization of cell internalization activities of Tatibody (recombinant Pertuzumab containing the cell penetrating peptide from Tat protein)
- Cloning, expression and characterization of an in silico designed variant of interleukin 4, to facilitate its purification using cyanogen bromide
- production of human recombinant IL-2
- Production of a Bispecific-Cept (heterodimer of Fc-fused anti-PD-1 scFv and Fc-fused CD80) for dual blockade of PD-1 and CTLA-4 in cancer immunotherapy.
- Real-Time PCR data normalization software design
- Designing and evaluating 3rd generation CAR T-meso to induce immune response against pancreatic cancer cell lines
- Production of Fc-fused 4-1BBL recombinant protein and assessment of the in vitro immunostimulatory effects
- Production of anti-CD8-CD19 bi-specific T-cell engager (BiTE) to induce cytotoxic T-cell response against CD19^{+} cancer cells.
- Multi-omics identification of breast cancer associated biomarkers and validation using Real-Time PCR technique

TECHNICAL EXPERIENCEs:

Molecular Biotechnology including: Monoclonal antibodies production, Tissue culture, Protein purification and assays by different protein chemistry methods, Gene cloning, Western blotting, ELISA and PCR. Updated in recombinant protein production, Real Time PCR technique and Primer Design.

PUBLICATIONs:

a. Papers:

1. Maleksabet A, Zarei Jaliani H, Asgari A, **Ramezani A**[*], and Erfani N[*]. Specific targeting of recombinant human pancreatic ribonuclease1 using gonadotropin-releasing hormone targeting peptide toward gonadotropin-releasing hormone receptor-positive cancer cells. Accepted for publication in "Iranian Journal of Medical sciences" 2019.
2. Rezaei Z, Pouladfar G, **Ramezani A**, Mostafavi-Pour Z, Abbasian A, Shahriari B, and Pourabbas B. Production of Recombinant H2B Antigen from an Iranian Isolate of Leishmania Infantum for the Serological Diagnosis of Visceral Leishmaniasis. Accepted for publication in "Iranian Journal of Immunology" 2019.
3. Rezaei Z, Reet N.V, Pouladfar G, Kühne V, **Ramezani A**, Sarkari B, Pourabbas B and Büscher P. Expression of a rK39 homologue from an Iranian Leishmania infantum isolate in Leishmania tarentolae for serodiagnosis of visceral leishmaniasis. Parasites & Vectors. 2019 12:593. doi.org/10.1186/s13071-019-3839-3
4. Asgari A, Sharifzadeh S, Ghaderi A, Hosseini A, and **Ramezani A**[*]. In vitro cytotoxic effect of Trastuzumab in combination with Pertuzumab in breast cancer cells is improved by interleukin-2 activated NK cells. Mol Biol Rep. 2019 46(6):6205-6213. doi.org/10.1007/s11033-019-05059-0
5. Toghraie FS, Ghaderi A, and **Ramezani A**[*]. Homology Modeling of an Alternative Splice Variant of Human Granulocyte Colony-Stimulating Factor, G-CSF Isoform D, and Study of Its Binding Properties by Molecular Docking. Int J Pept Res Ther (2019) doi:10.1007/s10989-019-09814-6.
6. Toghraie FS, Yazdanpanah-Samani M, Mahmoudi Maymand E, Hosseini A, Asgari A, **Ramezani A**, Ghaderi A. Molecular Cloning, Expression and Purification of G-CSF Isoform D, an Alternative Splice Variant of Human G-CSF. Iranian journal of allergy, asthma, and immunology. 2019;18(4):419-26.
7. Yousefinejad F, Jowkar F, Barani S, Jamali E, Mahmoudi E, **Ramezani A**, et al. Killer cell immunoglobulin-like receptors (KIRs) genotype and haplotype analysis in Iranians with non-melanoma Skin Cancers. Iranian Biomedical Journal. 2019;23(5):330-7.
8. Hashemi SMA, Sarvari J, Fattahi MR, Dowran R, **Ramezani A**, Hosseini SY. Comparison of ISG15, IL28B and USP18 mRNA

levels in peripheral blood mononuclear cells of chronic hepatitis B virus infected patients and healthy individuals. Gastroenterology and Hepatology from Bed to Bench. 2019;12(1):38-45.

9. Ghaderi F, Ahmadvand S, **Ramezani A,** Montazer M, and Ghaderi A,. Production and characterization of monoclonal antibody against a triple negative breast cancer cell line. Biochemical and biophysical research communications 2018; 505 (1), 181-186.
10. Zargar P, Ghani E, Mashayekhi FJ, **Ramezani A**, Eftekhar E. Acriflavine enhances the antitumor activity of the chemotherapeutic drug 5‐fluorouracil in colorectal cancer cells. Oncology letters. 2018;15(6):10084-90.
11. Shaaban Z, Shirazi MRJ, Nooranizadeh MH, Tamadon A, Rahmanifar F, Ahmadloo S, **Ramezani A**, et al. Decreased expression of arginine-phenylalanine-amide-related peptide-3 gene in dorsomedial hypothalamic nucleus of constant light exposure model of polycystic ovarian syndrome. International journal of fertility & sterility. 2018;12(1):43.
12. **Ramezani A**, Ghaderi A. Using a Dihydrofolate Reductase-Based Strategy for Producing the Biosimilar Version of Pertuzumab in CHO-S Cells. Monoclonal antibodies in immunodiagnosis and immunotherapy. 2018;37(1):26-37.
13. Khajeh S, Razban V, Talaei-Khozani T, Soleimani M, Asadi-Golshan R, Dehghani F, **Ramezani A**, et al. Enhanced chondrogenic differentiation of dental pulp-derived mesenchymal stem cells in 3D pellet culture system: effect of mimicking hypoxia. Biologia. 2018;73(7):715-26.
14. Kavousipour S, Mokarram P, Gargari S, Mostafavi-Pour Z, Barazesh M, **Ramezani A**, et al. A Comparison between Cell, Protein and Peptide-Based Approaches for Selection of Nanobodies against CD44 from a Synthetic Library. Protein and peptide letters. 2018;25(6):580-8.
15. Toghraie FS, Sharifzadeh SM, **Ramezani A**, Maymand EM, Yazdanpanah-Samani M, Ghaderi A. Cloning and Expression of Recombinant Human Interleukin-7 in Chinese Hamster Ovary (CHO) Cells. Reports of biochemistry & molecular biology. 2017;6(1):66.
16. Rashidi M, Seghatoleslam A, Namavari M, Amiri A, Fahmidehkar MA, **Ramezani A**, et al. Selective Cytotoxicity and apoptosis-induction of Cyrtopodion scabrum extract against digestive cancer cell lines. Int J Cancer Mana. 2017.
17. **Ramezani A**, Maymand EM, Yazdanpanah-Samani M, Hosseini A, Toghraie FS, Ghaderi A. Improving Pertuzumab production by

gene optimization and proper signal peptide selection. Protein expression and purification. 2017;135:24-32.

18. Atapour A MP, Mostafavi-Pour Z, **Ramezani A**. Molecular Cloning, Expression, and Purification of a Recombinant Fusion Protein (rNT-gp96-NT300). BioPharm International. 2017;30(10):38-44.
19. Razieh D JS, Afagh Moattari, M R Fattahi, **Ramezani A**, S Y Hosseini. Analysis of TLR7, SOCS1 and ISG15 immune genes expression in the peripheral blood of responder and non-responder patients with chronic Hepatitis C. Gastroenterology and Hepatology from Bed to Bench. 2017;10(4).
20. Tati K Y-SM, **Ramezani A**., Mahmoudi Maymand E., Ghaderi A. Establishment a CHO Cell Line Expressing Human CD52 Molecule. Reports of Biochemistry & Molecular Biology. 2016;5(1).
21. Mosaviazam B, **Ramezani A**, Morowvat MH, Niazi A, Mousavi P, Moghadam A, et al. HSP70 Gene Expression Analysis in Dunaliella salina Under Salt Stress. International Journal of Pharmacognosy and Phytochemical Research 2016; 8(5); 767-770
22. Moezzi L, Keshavarz Z, Ranjbaran R, Aboualizadeh F, Behzad-Behbahani A, Abdullahi M, **Ramezani A**, et al. Fetal RHD genotyping using real-time polymerase chain reaction analysis of cell-free fetal DNA in pregnancy of RhD negative women in South of Iran. International journal of fertility & sterility. 2016;10(1):62.
23. Karami Kheirabad M, Ahmadloo S, Namavar Jahromi B, Rahmanifar F, Tamadon A, **Ramezani A**, et al. Alterations of hypothalamic RFamide related peptide-3 and Kiss1 gene expressions during spermatogenesis of rat in chronic stress conditions. Veterinarski arhiv. 2016;86(6):841-56.
24. Eini M, Behzad-Behbahani A, Takhshid MA, **Ramezani A**, Dehbidi GRR, Okhovat MA, et al. Chimeric external control to quantify cell free DNA in plasma samples by real time PCR. Avicenna journal of medical biotechnology. 2016;8(2):84.
25. Abdullahi M, Ranjbaran R, Alyasin S, Keshavarz Z, **Ramezani A**, Behzad-Behbahani A, et al. Expression of basophil activation markers in pediatric asthma. Iranian Journal of Immunology. 2016;13(1):27-36.
26. Kheirabad MK, Jahromi BN, Tamadon A, **Ramezani A**, Ahmadloo S, Sarvestan FS, et al. Expression of melanocortin-4 receptor mRNA in male rat hypothalamus during chronic stress. International journal of molecular and cellular medicine. 2015;4(3):182.
27. Gholijani N G, Kalantar F, **Ramezani A**, Z Amirghofran. Modulation of Cytokine Production and Transcription Factors Activities in

Human Jurkat T Cells by Thymol and Carvacrol. Advanced pharmaceutical bulletin. 2015;5(1).

28. Zargari S, **Ramezani A**, Ostvar S, Rezaei R, Niazi A, Ayatollahi S. Isolation and characterization of gram-positive biosurfactant-producing halothermophilic bacilli from Iranian petroleum reservoirs. Jundishapur journal of microbiology. 2014;7(8).
29. Niazi A, **Ramezani A**, Dinari A. GSTF1 gene expression analysis in cultivated wheat plants under salinity and ABA treatments. Molecular biology research communications. 2014;3(1):9.
30. Salehi MS, Shirazi MRJ, Zamiri MJ, Pazhoohi F, Namavar MR, Niazi A, **Ramezani A,** et al. Hypothalamic expression of KiSS1 and RFamide-related peptide-3 mRNAs during the estrous cycle of rats. International journal of fertility & sterility. 2013;6(4):304.
31. **Ramezani A**, Niazi A, Abolimoghadam AA, Babgohari MZ, Deihimi T, Ebrahimi M, et al. Quantitative expression analysis of TaSOS1 and TaSOS4 genes in cultivated and wild wheat plants under salt stress. Molecular biotechnology. 2013;53(2):189-97.
32. Moghadam AA, Ebrahimie E, Taghavi SM, Niazi A, Babgohari MZ, Deihimi T, **Ramezani A** et al. How the nucleus and mitochondria communicate in energy production during stress: nuclear MtATP6, an early-stress responsive gene, regulates the mitochondrial F 1 F 0-ATP synthase complex. Molecular biotechnology. 2013;54(3):756-69.
33. Dinari A, Niazi A, Afsharifar AR, **Ramezani A**. Identification of upregulated genes under cold stress in cold-tolerant chickpea using the cDNA-AFLP approach. PLoS One. 2013;8(1):e52757.
34. Sarmast MK, Salehi H, **Ramezani A**, Abolimoghadam AA, Niazi A, Khosh-Khui M. RAPD fingerprint to appraise the genetic fidelity of in vitro propagated Araucaria excelsa R. Br. var. glauca plantlets. Molecular biotechnology. 2012;50(3):181-8.
35. Balotf S, Niazi A, Kavoosi G, **Ramezani A**. Differential expression of nitrate reductase in response to potassium and sodium nitrate: realtime PCR analysis. Australian Journal of Crop Science. 2012;6(1):130.
36. **Ramezani A**[*], Haddad R, Dorostkar M, Mardi M, Naghavi M. Evaluation of genetic diversity of Iranian grapevine accessions using microsatellite markers. Vitis. 2009;48(3):151-2.
37. **Ramezani A**, Haddad R, Dorostkar M. Genetic diversity of grapevine accessions from Iran, Russia and USA using microsatellite markers. Pakistan journal of biological sciences: PJBS. 2009;12(2):152-7.
38. **Ramezani A**, Haddad R, Mardi M. Determination of genetic variation with microsatellite markers in Iranian grape genotypes. 2008.

b. ORALs and POSTERs:

	Title	Congress	Date
1	Modification of single-nucleotide resolution of DNA fragments using low-voltage denaturing polyacrylamide gel electrophoresis.	1st Agricultural Biotechnology Conference of Iran	July 2006
2	Assessment of genetic diversity of Iranian grapevine genotypes using microsatellite markers	5th Iranian Horticultural Science Congress	3-6 Sept. 2007,
3	Determination of genetic relationship between Iranian and Russian grape genotypes using microsatellite markers	5th Iranian Horticultural Science Congress	3-6 Sept. 2007,
4	Assessment of the relationship between microsatellite loci and fruit traits in grapevine and determination of Informative markers.	The 5th National Biotechnology Congress of Iran	24-26 Nov. 2007
5	Isolation and sequencing of 16SrDNA genes of Biosurfactant-producing Halo-thermophilic bacteria from Southern Iranian Petroleum Reservoirs.	11th Iranian genetic congress	May 2010
6	بررسي ميزان بيان ژن thaumatin like protein در ارقام متحمل و حساس گندم درتنش قارچي Septoria titici	11th Iranian genetic congress	May 2010
7	جداسازي ژن پيريدوكسال كيناز SOS4(PdxK)Ta پاسخ دهنده به تنش شوري از گندم رقم ماهوتي	11th Iranian genetic congress	May 2010
8	بررسي سطح بيان ژن SOS 1 تحت تنش شوري در دو رقم گندم بويتيكوم وحشي و الموت زراعي	11th Iranian genetic congress	May 2010
9	آناليزسطح بيان ترانسپورتر TaHKT 1;5 با استفاده از تكنيكsemi quantitative RT-PCR	11th Iranian genetic congress	May 2010
10	بررسی بیان ژنSOS1 در دو گونه گندم زراعی ایران تحت تنش شوري با استفاده ازqRT-PCR	7th national biotechnology congress of Iran	September 2011
11	بررسی بیان ژن زیرواحد شش کیلودالتونی، ژنی پاسخ دهنده به انواع تنش هاي محيطی، تحت تنش شوري در خويشاوندان وحشی گندم	7th national biotechnology congress of Iran	September 2011
12	بررسی میزان بیان دو ژن کدکننده ي خانواده MYB در دو رقم گندم زراعی تحت تنش شوري	7th national biotechnology congress of Iran	September 2011
13	بررسی میزان بیان ژن Methallothionein like protein(MT) در برخی ژنوتیپ هاي وحشی زراعی گندم در تنش شوري	7th national biotechnology congress of Iran	September 2011
14	شناسائی و کلون کردن ژنهاي القاء شده تحت تاثیر تنش سرمائی در گیاه نخود معمولی با استفاده از تکنیک cDNA-AFLP	7th national biotechnology congress of Iran	September 2011
15	Expression of KiSS-1 genes in hypothalamus of rat during estrous cycle	Biotechnology in animal science	September 2011
16	Expression of RFamide related peptide 3 genes in hypothalamus of rat during estrous cycle	Biotechnology in animal science	September 2011
17	P-21: RF-Amide Related Peptide mRNA Expression in Male Rat Dorsomedial Hypothalamic Nucleus during Chronic Stress	16th Congress on Reproductive Biomedicine and 10th Royan Nursing and Midwifery Seminar	September 2015
18	P-5: Effect of Chronic Stress on Kiss-1 mRNA Expression in Male Rat Arcuate Hypothalamic Nucleus	16th Congress on Reproductive Biomedicine and 10th Royan Nursing	September 2015

		and Midwifery Seminar	
19	Therapeutical monoclonal antibody in clinical practice: from cancer to asthma and allergy	The 10th biennial congress on Iranian society ssthma and allergy	28-30 Oct. 2015
20	The transcription level of IFN-α induced SOCS-1 gene, as a predictive factor for response to therapy in HCV infected patient	13th International Congress of Immunology & Allergy of Iran	26th- 29th April, 2016 Tabriz-Iran
21	Using CHO cell-based expression platforms for the production of Pertuzumab	The 18th Medical Biotechnology Congress, Belgium	24-25 May 2018
22	Production of pharmaceutical MAP30 protein in PichiaPink expression system	The 18th Medical Biotechnology Congress, Belgium	24-25 May 2018

c. Books:

1. Co-author of book "*PRACTICAL CYTOGENETICS*", First edition. ISBN: 978-600-04-3227-0. 2016, Khodadoust Press, Yazd, Iran

Honors:

1. Ranking the first in B.Sc. courses.
2. Ranking the first in Ph.D. courses.
3. Ranking the first in Ph.D. comprehensive exam.
4. Gifted post-graduate student of Shiraz University of Medical Sciences
5. Top young biotechnology researcher 1397, selected by Iranian Vice-President for Science and Technology, Biotechnology Development Council
6. 1St rank promoted in PhD courses, Shiraz University of Medical Sciences
7. 1St rank promoted in PhD Comprehensive exam, Shiraz University of Medical Sciences

WORKSHOPs and COURSEs:

	Title	Organization	Date
1	ICDL	Fars TVTO	2004
2	Real Time PCR	BioFlux-Far Gene Pouyesh	2010
3	Stress Management Techniques	Shiraz University	2010

4	The Identification and use of mental capacity	Shiraz University	2010
5	FPLC	Baqiayatllah University	2011
6	Advanced Bioinformatics	SUMS	2012
7	Stem Cell	SUMS	2012
8	Recombinant Antibody Production	SUMS	2012
9	Proteomics	SUMS	2012
10	Non-Viral Vectors: Production	SUMS	2013
11	Type 5 Adenoviral vector Production	SUMS	2013
12	Industrial Scale Production of Monoclonal Antibodies	Aryogen Biopharma	2014
13	Citation 3, Cell Imaging Multi-Mode Reader	Biotech Instrument Inc & SUMS	2015
14	Ethics in research	SUMS	2017
15	Ethics in clinical trials	SUMS	2017
16	Research Fellowship	SUMS	2017
17	Cultural Fellowship	SUMS	2018
18	Educational Fellowship	SUMS	2018

SUBMITTED SEQUENCEs in GENE BANK:

	Title	Accession Number	Date
1	Paenibacillus alvei strain ARN63 16S ribosomal RNA gene, partial sequence	HM037177.1	2010
2	Bacillus mycoides strain SH2 16S ribosomal RNA gene, partial sequence	HM037178.1	2010
3	Geobacillus thermodenitrificans strain Bio103 16S ribosomal RNA gene, partial sequence	HM748450.1	2010
4	Geobacillus thermodenitrificans strain Bio12 16S ribosomal RNA gene, partial sequence	HM748451.1	2010
5	Geobacillus thermoglucosidasius strain Bio13 16S ribosomal RNA gene, partial sequence	HM748452.1	2010
6	Geobacillus stearothermophilus strain Bio14 16S ribosomal RNA gene, partial sequence	HM748453.1	2010

7	Geobacillus thermodenitrificans strain Bio21 16S ribosomal RNA gene, partial sequence	HM748454.1	2010
8	Geobacillus thermodenitrificans strain Bio3 16S ribosomal RNA gene, partial sequence	HM748455.1	2010
9	Geobacillus thermodenitrificans strain Bio5 16S ribosomal RNA gene, partial sequence	HM748456.1	2010
10	Geobacillus thermodenitrificans strain Bio51 16S ribosomal RNA gene partial sequence	HM748457.1	2010
11	Geobacillus thermodenitrificans strain Bio7 16S ribosomal RNA gene, partial sequence	HM748458.1	2010
12	Geobacillus stearothermophilus strain Bio71 16S ribosomal RNA gene partial sequence	HM748459.1	2010
13	Geobacillus thermoglucosidasius strain Bio8 16S ribosomal RNA gene partial sequence	HM748460.1	2010
14	Cronobacter sakazakii strain Bio1(En) 16S ribosomal RNA gene, partial sequence	HM748461.1	2010
15	Enterobacter cloacae strain Bio4(En)16S ribosomal RNA gene, partial sequence	HM748462.1	2010
16	Triticum aestivum pyridoxal kinase mRNA, complete cds	HQ023236.1	2010
17	Enterobacter hormaechei strain Bio102 16S ribosomal RNA gene, partial sequence.	JX495601.1	2012
18	Enterobacter cloacae strain Bio103 16S ribosomal RNA gene, partial sequence	JX495602.1	2012