

Curriculum Vitæ

First Name: Reihaneh
Surname: Ramezani
Date of Birth: September 3, 1980
Place of Birth: Tehran
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Education

PhD Nanobiotechnology
Tabiat Modares University
2008-2013

M.Sc Medical Biotechnology
Tarbiat Modares University
School of Medical Sciences
2003-2006

B.Sc Microbiology
Tehran Azad University
School of Basic Sciences
1999-2003

Thesis:

PhD thesis:
"Co-delivery DNA and RNA to eukaryotic cells by RNA producing liposomal nanobiosystem"
Under Supervision of Dr. Sadeghizadeh and Co-supervision of Dr. Behmanesh and Dr. Hosseinkhani

M.Sc.thesis:
"Designing and Development of Novel NASBA-ELISA System for Rapid Detection of Mycobacterium Tuberculosis EF-Tu mRNA"
Under Supervision of Dr. Forouzandeh and Co-Supervision of Dr. Rasaee

Publications:

1. P. Gill, R. Ramezani, M. V. Pour Amiri, A. Ghaemi, T. Hashempour, N. Eshraghi, M. Ghalami, H. A. Tehrani; Enzymed-linked immunosorbent assay of nucleic acid sequencw-based amplification for molecular detection of M. tuberculosis, *Biochemical and Biophysical Research Communication*, 2006.
2. P. Gill, M. Forouzandeh, F. Rahbarizadeh, R. Ramezani and M. J. Rasae; Production of Anti-Digoxigenin Antibody HRP conjugate for PCR-ELISA DIG detection system, *Journal of immunoassay & Immunochemistry*, 2006, Vol. 27, p: 303- 318.
3. R. Ramezani, M. Sadeghizadeh, M. Behmansh, S. hosseinkhani, Characterization of zwitterionic phosphatidylcholine-based bilayer vesicles as efficient self-assembled virus-like gene carriers. *Molecular Biotechnology*, 2013.
4. R. Ramezani, M. Sadeghizadeh, M. Behmansh, S. hosseinkhani, Gene transfer to eukaryotic cells by a virus-like liposomal nano-system, *Journal of police medicine*, 2012, vol. 1, p: 71-80.
5. Ramezani R. Antibiotic Resistance Patterns of Bacteria Causing Urinary Tract Infection in Women Referred to Resalat Hospital, Tehran, 2015 %J *Iranian Journal of Infectious Diseases*. 2016;21(73):59. (in Persian).
6. Ramezani R, Ramezani S. Survey of Spread and Reasons of Turning into Alternative Therapies to Current Medicine: (Case Study of Tehran) %J *Alborz University Medical Journal*. 2017;6(3):187-98. (in Persian).
7. Reihaneh Ramezani, Nafiseh sadat Foroutan, RNA Amplification by NASBA: a New Molecular Technique for Detection of Infectious Diseases, *Iranian Journal of Infectious Diseases and Tropical Medicine*, 2017, 22(78): 1-13, (in Persian).
8. Keshdar F., Ramezani R., Expression Level of miR-9 in Exosomes Derived from Ovarian Epithelial Carcinoma Cells and the Effects of Exosome Treatment on VEGF Expression in Human Umbilical Vein Endothelial Cells, *Pathobiology Research*. 2018;21(1):35-40. (in Persian)
9. Fatemeh Mousavi, Reihaneh Ramezani, The prediction of post-traumatic growth based on memorials symptoms and rumination in women with cancer, 2019, 7 (26); 146-159. (in Persian).
10. Hanachi P, Salehizadeh S, Ramezani R, Zarringhalami R. Comparison of antioxidant and anti-bacterial activities of *Ocimum basilicum* and *Impatiens walleriana* and their anticancer properties on SKOV-3 cancer cell line %J *Journal of food science and technology(Iran)*. 2020;17(106):95-107. (in Persian)
11. Reihaneh Ramezani, Zahra Kardoost Parizi, Nassim Ghorbanmehr, Hamideh Mirshafiee Rapid and simple detection of *Escherichia coli* by Loop-Mediated Isothermal Amplification Assay in Urine Specimens, *Avicenna Journal of Medical Biotechnology*, October-December 2018, 10 (4): 269-271.
12. Ramezani R, Forouzandeh Moghadam M, Rasae MJ. Development of Sensitive and Rapid RNA Transcription-based Isothermal Amplification Method for Detection of *Mycobacterium tuberculosis*. *Avicenna J Med Biotechnol*. 2019;11(2):169-75.
13. Hanachi, P., Zarringhalami, R., & Ramezani R. Investigation of Antioxidant Properties of *Polygonatum orientale* Desf and *Tilia dasystyla* Extracts by Different Methods and Solvents, 2019.
14. Hanachi P, Salehizadeh S, Ramezani R, Zarringhalami R. Comparison of antioxidant and anti-bacterial activities of *Ocimum basilicum* and *Impatiens walleriana* and their anticancer properties on SKOV-3 cancer cell line %J *Food Science and Technology*. 2020;17(106):95-10.
15. Taghizadeh S, Falsafi T, Kasra Kermanshahi R, Ramezani R. Antagonistic and Immunomodulant Effects of Two Probiotic Strains of *Lactobacillus* on Clinical Strains of *Helicobacter pylori*. 2020. 2020;9.
16. Zarringhalami R, Hanachi P, Ramezani Tamijani R. Cytotoxic effect of *Tilia dasystyla* and *Polygonatum orientale* Desf extracts on AGS and SKOV-3 cancer cell lines %J *Iranian Journal of Pharmaceutical Sciences*. 2021;16(4):9-16.
17. Mahdloo T, Sahami P, Ramezani R, Jafarinia M, Goudarzi H, Babashah S. Up-regulation of miR-155 potentiates CD34+ CML stem/progenitor cells to escape from the growth-inhibitory effects of TGF- β 1 and BMP signaling. *EXCLI journal*. 2021;20:748-63
18. Aslan C, Kiaie SH, majidi zolbanin N, Lotfinezhad P, Ramezani R, Kashanchi F, et al. Exosomes for mRNA delivery: a novel biotherapeutic strategy with hurdles and hope. *BMC Biotechnology*. 2021;21.
19. Amiri A, Bagherifar R, Ansari Dezfouli E, Kiaie SH, Jafari R, Ramezani R. Exosomes as bio-inspired nanocarriers for RNA delivery: preparation and applications. *J Transl Med*. 2022;20(1):125.
20. Alimohammadi R, Porgoo M, Eftekhary M, Kiaie SH, Ansari Dezfouli E, Dehghani M, et al. SARS-CoV-2 mRNA-vaccine candidate; CORENAPCIN(@), induces robust humoral and cellular immunity in mice and non-human primates. *NPJ Vaccines*. 2022;7(1):105.
21. Parsaei H, Moosavifar MJ, Eftekhazadeh M, Ramezani R, Barati M, Mirzaei S, et al. Exosomes to control glioblastoma multiforme: Investigating the effects of mesenchymal stem cell-derived exosomes on C6 cells in vitro. *Cell Biology International*. 2022; 46(12):2028-40.
22. Ramezani, R., Mohammadian, M., Hosseini, E.S. et al. The effect of bovine milk lactoferrin-loaded exosomes (exoLF) on human MDA-MB-231 breast cancer cell line. *BMC Complement Med Ther*, 2023; 23, 228.
23. Ghandchi H, Ramezani R, Moosavinejad Z. Comparative study of several laboratory methods for isolating exosomes from bovine milk. *nbr* 2024; 10 (4): 2.
24. Khaloozadeh F, Razmara E, Asgharpour-Babayian F, Fallah A, Ramezani R, Rouhollah F, Babashah S. Exosomes derived from colorectal cancer cells take part in activation of stromal fibroblasts through regulating PHLPP isoforms. *EXCLI J*. 2024 May 2; 23:634-654. doi: 10.17179/excli2024-6926.

Abstracts:

- 1) R. Ramezani, M. Forouzandeh, P. Gill, M. J. Rasaei, M. Ghalami, A. Zia Zarifi; Nucleic Acid Sequence-Based Amplification (NASBA) for detection of EF-Tu mRNA of Mycobacterium tuberculosis, The 8th Iranian Congress of Biochemistry and first International Congress of Biochemistry and molecular Biology, Tarbiat Modares University, Tehran, Iran.
- 2) M. Forouzandeh, P. Gill, R. Ramezani, M. J. Rasaei, M. V. Pour Amiri, M. Ghalami, A. Zia Zarifi, Designing and development of novel NASBA-ELISA system for Rapid detection of Mycobacterium tuberculosis EF-Tu mRNA, The 13th Iranian Biology Conference and First International Conference of Biology, Gilan University, Rasht, Iran.
- 3) R. Ramezani, M. Sadeghizadeh, M. Behmanesh, S. Hosseinkhani, Constructing the most similar self-assembled structure to virus by efficient encapsulation of DNA into neutral liposome, 5th International congress of biochemistry and molecular biology & 13th Iranian congress of biochemistry, Shahid Sadoughi university, Yazd
- 4) R. Ramezani, M. Sadeghizadeh, M. Behmanesh, S. Hosseinkhani, DNA delivery by a neutral liposomal nanosystem: an introduction to virus-like gene delivery systems, 1th Tabriz international life science conference & 12th Iran biophysical chemistry conference, Biotechnology research center, Tabriz University of Medical Science, Tabriz, Iran
- 5) Reihaneh Ramezani, Resistance patterns of bacteria causing urinary tract infection in Resalat Hospital, Tehran, in 2015, the 5th International Conference on Women's Health, 2016.

Honors and Awards:

1. Stood in 2nd Place in the M.S Entrance Exam of Medical Biotechnology (2003)
2. Stood in 8th Place in the M.S Entrance Exam of Microbiology (2003)
3. Stood in the first place in the PhD Entrance Exam of Nanobiotechnology (2007)
4. Top speaker at the second national conference on The defense applications of nanoscience, Imam Hossein University
5. Selected as the best nano researcher in the second conference of nano graduates in 2013
6. Winning the third place for the poster presented at the NanoTR10 Congress in Turkey, Istanbul, 2013

Experiences:

- 1) Application of PCR-ELISA for Molecular Diagnosis of Microorganisms Workshop held on 1st Dec. 2005 at Tarbiat Modares University, Dept. of Medical Biotechnology, Tehran.
- 2) Application of PCR for Molecular Diagnosis of Microorganisms Workshop, held on 24th Nov. 2005 at Tarbiat Modares University, Dept. of Medical Biotechnology, Tehran.
- 3) Simple Molecular Diagnosis of Tuberculosis by PCR-ELISA Workshop, held on 6th Jan. 2005 at Tarbiat Modares University, Dept. of Medical Biotechnology, Tehran.
- 4) Designing of some isothermal amplification methods like NASBA and LAMP
- 5) Preparation and characterization of liposome structure
- 6) Encapsulation of drug and DNA in liposome
- 7) Drug and gene delivery
- 8) Isolation exosomes from different sources
- 9) Drug Loading in exosomes

Teaching experiments:

2016- 2018	Teaching Fundamentals of Genetics , Alzahra University, Tehran, Iran
2018	Teaching Current topics in Genetics , Alzahra University, Tehran, Iran
2021- 2022	Teaching Molecular genetics Laboratory , Alzahra University, Tehran, Iran
2023- 2024	Teaching Fundamentals of Nanobiotechnology , Alzahra University, Tehran, Iran