

Curriculum Vitæ

First Name: Reihaneh

Surname: Ramezani Tamijani

Date of Birth: September 3, 1980

Place of Birth: Tehran

Address:

Women Research Center, Alzahra University, North Sheikh Bahae St., Deh-e Vanak, Tehran, I. R. of Iran

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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. Rasaei

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. Rasaee; 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) **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.
- 6) **Ramezani R**, Forouzandeh Moghadam M, Rasaee 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.
- 7) Hanachi, P., Zarringhalami, R., & **Ramezani R**. Investigation of Antioxidant Properties of Polygonatum orientale Desf and Tilia dasystyla Extracts by Different Methods and Solvents, 2019.
- 8) 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.
- 9) 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.
- 10) 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.
- 11) 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
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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.

Abstracts:

- 1) R. Ramezani, M. Forouzandeh, P. Gill, M. J. Rasaee, 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. Rasaee, 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 Sadughi 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.

Patent:

- 1) Designing and Development of Molecular Detection DIG-NASBA-ELISA System

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 first place in the PhD Entrance Exam of Nanobiotechnology (2007)
- 4) Selected as the best nano researcher in the second conference of nano graduates in 2013.
- 5) Stood in the 3th 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) Holding a workshop on isothermal reproduction techniques, Women's Research Institute, 2015.
- 5) Designing of some isothermal amplification methods like NASBA and LAMP
- 6) Preparation and characterization of liposome structure
- 7) Encapsulation of drug and DNA in liposome

- 8) Gene therapy and drug delivery to eukaryotic cells
- 9) Evaluation of different exosome isolation methods
- 10) Drug encapsulation into exosome
- 11) Design and manufacture of exosome isolation kit from culture medium
- 12) Design and manufacture of exosome isolation kit from bovin milk