CURRICULUM VITAE

Ilnaz Rahimmanesh

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Research Profile:

Google scholar

Scopus

Educational Background:

- (2015-2020) Ph.D. student in molecular medicine, Medical School of Isfahan, Isfahan, Iran.
- (2012-2014) M.Sc. student in Medical Biotechnology, Medical School of Isfahan, Isfahan, Iran.

- (2009-2012) B.Sc. student in Anesthesia, Medical School of Isfahan, Isfahan, Iran.

M.Sc. Thesis:

Evaluation of construction and characterization of recombinant HEK celloverexpressing rabbit MCP-1 on its surface.
Supervisors: Dr. Hossein Khanahmad, MD, Ph.D.

Ph.D. Thesis:

Construction and characterization of Anti-TNC-CAR T Cell and evaluation ofits effect on MDA-MB-468 and MCF-7 breast cancer cell lines.
Supervisors: Dr. Hossein Khanahmad, MD, Ph.D**.**

Patent:

- Fabrication of Anti-TNC CAR T cell by non-viral gene transfer methodfor the treatment of human breast cancer.
- Fabrication of magnetite-silica core-shell nanoparticles by ultra-fast microwave method attached to antibody against CD4 with the aim of isolating CD4+ cells

Book:

Carrier-mediated gene and drug delivery for dermal wound healing. Royal Society of Chemistry publications. 2024. Participation in the book-chapter titled “Gene delivery (not stimuli-responsive platforms, focusing on cargo)”.

Projects:

Principle investigator

- 2024-present Design and evaluation of mesoporous silica-Protamine nano-system in gene transfer to human T lymphocyte cells. PI of the project. Isfahan University of Medical science. Isfahan, Iran.

- 2023-present Determination of tumor antigens associated with human glioblastoma and molecular pathways involved in the disease using a bioinformatics approach. PI of the project. Isfahan University of Medical science. Isfahan, Iran.

- 2023-present A review of new methods of gene transfer to human T lymphocyte cells with the aim of gene therapy. Applied Physiology Research Center, Isfahan University of Medical Sciences, Isfahan, Iran.

- 2013-2014 Construction of T/A cloning vector and evaluation its efficiency. Main Collaborator. Pediatric Inherited Diseases Research Center, Isfahan University of Medical Sciences, Isfahan, Iran.

Co- investigator

- 2022-present Developing an engineered vascularized tumor-on-chip model to assess the preclinical efficacy of cancer chemotherapies. Main Collaborator. National Institute for Medical Research Development (NIMAD)

- 2023-Present Evaluation of the effect of natural killer cell expressing chimeric receptor against VEGFR2 antigen on tumor growth inhibition in a mouse model of human melanoma. Main Collaborator. Iran Biotech Fund.

- 2023-Present Production of Anti-CD19-CAR NK-92 cells and evaluation of their function in the cell line expressing CD19. Main Collaborator. Iran Biotech Fund.

- 2020- 2024 Investigation of fetal hemoglobin (HbF) induction using the KLF1 gene disruption via CRISPR technology in human Hematopoietic Stem cell. Main Collaborator. Isfahan University of Medical science. Isfahan, Iran.

- 2020-2023 Inhibition of Function of Macro-Domain in NSP 3 Corona Virus by small-molecules and Natural Compounds in silico. Main Collaborator. Isfahan University of Medical science. Isfahan, Iran.

- 2019-2020 Evaluation of antitumor effect of Polyclonal Rabbit Anti-4T1 tumorcell line and it's lysate in the presence or absence of T lymphocyte cells stimulator

(Phytohemagglutinin) on a mouse model of breast cancer. MainCollaborator. Isfahan University of Medical science. Isfahan, Iran.

- 2019-2024 Construction and characterization of Anti-TNC-CAR T Cell and evaluation of its effect on nude mice bearing colorectal cancer. Main Collaborator. Isfahan University of Medical science. Isfahan, Iran.

- 2014-2018 Preparing DNA Aptamer against human MCP-1 chemokine. Main Collaborator. Isfahan University of Medical science. Isfahan, Iran.

- 2012-2013 Construction and characterization of recombinant HEK cell over expressing truncated α4 integrin. Main Collaborator. Isfahan University of Medical science. Isfahan, Iran.

Publication:

1. Advances in bioengineered CAR T/NK cell therapy for glioblastoma: Overcoming immunosuppression and nanotechnology-based strategies for enhanced CAR T/NK cell therapy. Nasim Dana, Arezou Dabiri, Majed Bahri Najafi, Azadeh Rahimi, Sayed Mohammad Matin Ishaghi, Laleh Shariati, Minmin Shao, Assunta Borzacchiello, **Ilnaz Rahimmanesh***, Pooyan Makvandi. 2024/09/31. Bioengineering & Translational Medicine.

2. Smart co-delivery of plasmid DNA and doxorubicin using MCM-chitosan-PEG polymerization functionalized with MUC-1 aptamer against breast cancer. Yasaman Esmaeili, Arezou Dabiri, Fariba Mashayekhi, **Ilnaz Rahimmanesh**, Elham Bidram, Saeed Karbasi, Mohammad Rafienia, Shaghayegh Haghjooy Javanmard, Yavuz Nuri Ertas, Ali Zarrabi, Laleh Shariati. 2024/4/1. Biomedicine & Pharmacotherapy.

3. The nexus of natural killer cells and melanoma tumor microenvironment: crosstalk, chemotherapeutic potential, and innovative NK cell-based therapeutic strategies.
   Azadeh Rahimi, Zahra Malakoutikhah, **Ilnaz Rahimmanesh**, Gordon A Ferns, Reza Nedaeinia, Sayed Mohammad Matin Ishaghi, Nasim Dana, Shaghayegh Haghjooy Javanmard. 2023/12/6. Cancer Cell International.

4. The molecular perspective on the development of melanoma and genome engineering of T-cells in targeting therapy.
   Fatemeh Hajibabaie, Navid Abedpoor, Shaghayegh Haghjooy Javanmard, Anwarul Hasan, Mehran Sharifi, **Ilnaz Rahimmanesh***, Laleh Shariati, Pooyan Makvandi. 2023/8/29. Environmental Research.

5. Nanobased platform advances in cardiovascular diseases: Early diagnosis, imaging, treatment, and tissue engineering.
   Laleh Shariati, Yasaman Esmaeili, **Ilnaz Rahimmanesh**, Shahrzad Babolmorad, Ghazal Ziaei, Anwarul Hasan, Maryam Boshtam, Pooyan Makvandi. 2023/6/29. Environmental Research.

6. A comprehensive review on novel targeted therapy methods and nanotechnology-based gene delivery systems in melanoma.

Azadeh Rahimi, Yasaman Esmaeili, Nasim Dana, Arezou Dabiri, **Ilnaz Rahimmanesh,** Setareh Jandaghain, Golnaz Vaseghi, Laleh Shariati, Ali Zarrabi, Shaghayegh Haghjooy Javanmard, Marco Cordani. 2023/5/24. European Journal of Pharmaceutical Sciences.

7. Enhanced *in vivo* anti-tumor efficacy of whole tumor lysate in combination with whole tumor cell-specific polyclonal antibody.
   Ilnaz Rahimmanesh, Yasaman Esmaili, Elham Ghafouri, Seyed Hossein Hejazi, Hossein Khanahmad. 2023/4/8. Research in Pharmaceutical Sciences.

8. Crosstalk of Transcriptional Regulators of Adaptive Immune System and microRNAs: An Insight into Differentiation and Development.
   Maryam Boshtam †, **Ilnaz Rahimmanesh†,** Laleh Shariati, Malihe Najaflu, Hossein Khanahmad, Mina Mirian, Atefeh Zarepour, Ali Zarrabi, Shirin Kouhpayeh. 2023/2/16. Cells.

9. Prospective Prediction of Treatment Response in High-Grade Glioma Patients using Pre-Treatment Tumor ADC Value and miR-222 and miR-205 Expression Levels in Plasma.
   Maryam Heidari, Alireza Amouheidari, Simin Hemati, Hossein Khanahmad, **Ilnaz Rahimmanesh,** Peyman Jafari, Parvaneh Shokrani.2022/11/5.Journal of Biomedical Physics and Engineering.

10. Nucleic acid-based therapeutics for dermal wound healing.
    Esmaeel Sharifi, Preety Sharma, Arun Kumar, Tarun Agarwal, Asmita DekaDey, Farnaz DabbaghMoghaddam, **Ilnaz Rahimmanesh,** Mahsa Ghovvati, Satar Yousefiasl, Assunta Borzacchiello, Abbas Mohammadi, Venkata Rajesh Yella, Omid Moradi. 2022/11/1.International Journal of Biological Macromolecules.

11. Genetically Engineered Viral Vectors and Organic-Based Non-Viral Nanocarriers for Drug Delivery Applications.
    Sakineh Hajebi, Satar Yousefiasl, **Ilnaz Rahimmanesh**, Alireza Dahim, Sepideh Ahmadi, Firoz Babu Kadumudi, Nikta Rahgozar, Sanaz Amani, Arun Kumar, Ehsan Kamrani, Mohammad Rabiee, Assunta Borzacchiello, Xiangdong Wang, Navid Rabiee, Alireza Dolatshahi-Pirouz, Pooyan Makvandi.2022/10/8.Advanced healthcare materials.

12. Advances in aptamer-based drug delivery vehicles for cancer therapy.
    Kousar Ghasemii†, Mahdieh Darroudi†, **Ilnaz Rahimmanesh†,** Matineh Ghomi, Mahnaz Hassanpour, Esmaeel Sharifi, Satar Yousefiasl, Sepideh Ahmadi, Ali Zarrabi, Assunta Borzacchiello, Mohammad Rabiee, Ana Claudia Paiva-Santos, Navid Rabiee .2022/5/6. Biomaterials Advances.

13. Gene Editing-Based Technologies for Beta-hemoglobinopathies Treatment.
    Ilnaz Rahimmanesh, Maryam Boshtam, Shirin Kouhpayeh, Hossein Khanahmad, Arezou Dabiri, Shahrzad Ahangarzadeh, Yasaman Esmaeili, Elham Bidram, Golnaz Vaseghi, Shaghayegh Haghjooy Javanmard, Laleh Shariati, Ali Zarrabi, Rajender S Varma.2022/6/4.Biology.

14. miRNA-encapsulated abiotic materials and biovectors for cutaneous and oral wound healing: Biogenesis, mechanisms, and delivery nanocarriers.
    Pooyan Makvandi, Asmita Deka Dey, Satar Yousefiasl, Arun Kumar, Farnaz Dabbagh Moghaddam, **Ilnaz Rahimmanesh,** Mohamadmahdi Samandari, Sumit Jamwal, Aziz Maleki, Abbas Mohammadi, Navid Rabiee, Ana Cláudia Paiva-Santos, Ali Tamayol, Esmaeel Sharifi. 2022/5/18. Bioengineering & Translational Medicine.

15. Optimization of culture media for ex vivo T-cell expansion for adoptive T-cell therapy.
    Ilnaz Rahimmanesh, Mehrsa Tavangar, Seyedeh Noushin Zahedi, Yadollah Azizi, Hossein Khanahmad Shahreza.2022. Advanced Biomedical Research.

16. Cancer Occurrence as the Upcoming Complications of COVID-19.
    Ilnaz Rahimmanesh, Laleh Shariati, Nasim Dana, Yasaman Esmaeili, Golnaz Vaseghi, Shaghayegh Haghjooy Javanmard.2022/1/28.Frontiers in Molecular Biosciences.

17. The Molecular Basis of COVID-19 Pathogenesis, Conventional and Nanomedicine Therapy.
    Shirin Kouhpayeh, Laleh Shariati, Maryam Boshtam, **Ilnaz Rahimmanesh,** Mina Mirian, Yasaman Esmaeili, Malihe Najaflu, Negar Khanahmad, Mehrdad Zeinalian,

Maria Trovato, Franklin R Tay, Hossein Khanahmad, Pooyan Makvandi. 2021/5/21. International journal of molecular sciences.

18. Conceptual Framework for SARS-CoV-2–Related Lymphopenia.
    Ilnaz Rahimmanesh, Shirin Kouhpayeh, Yadollah Azizi, Hossein Khanahmad.2022/13/9. Advanced Biomedical Research.

19. Identification of Significant Genes and Pathways Associated with Tenascin- C in Cancer Progression by Bioinformatics Analysis.
    Ilnaz Rahimmanesh, Razieh Fatehi, Hossein Khanahmad. 2022/3/11. Advanced Biomedical Research.
20. Chimeric antigen receptor‐T cells immunotherapy for targeting breast cancer.
    Ilnaz Rahimmanesh, Hossein Khanahmad. 2021/10. Research in Pharmaceutical Sciences.

21. Generation of HBsAg DNA aptamer using modified cell-based SELEX strategy.
    Mina Mirian, Shirin Kouhpayeh, Laleh Shariati, Maryam Boshtam, **Ilnaz Rahimmanesh,** Leila Darzi, Razieh Taghizadeh, Ali Jahanian-Najafabadi, Hossein Khanahmad. 2021/1/5. Molecular Biology Reports.

22. The possible role of glucose-6-phosphate dehydrogenase deficiency in COVID-19 global prevalence and distribution.
    Negar Khanahmad, Hossein Khanahmad, Laleh Shariati, **Ilnaz Rahimmanesh,** Shirin Kouhpayeh. 2020/21/5. Journal of Research in Medical Sciences: The Official Journal of Isfahan University of Medical Sciences.

23. The challenging nature of primary T lymphocytes for transfection: Effect of protamine sulfate on the transfection efficiency of chemical transfection reagents.
    Ilnaz Rahimmanesh, Mehdi Totonchi, Hossein Khanahmad. 2020/10. Research in Pharmaceutical Sciences.

24. Systems biology approaches toward autosomal dominant polycystic kidney disease (ADPKD).
    Ilnaz Rahimmanesh, Razieh Fatehi. 2020/12. Clinical and Translational Medicine.

25. MicroRNAs as the actors in the atherosclerosis scenario.
    Fatemeh Hajibabaie, Shirin Kouhpayeh, Mina Mirian, **Ilnaz Rahimmanesh,** Maryam Boshtam, Ladan Sadeghian, Azam Gheibi, Hossein Khanahmad, Laleh Shariati. 2020/2/3. Journal of physiology and biochemistry.

26. Development of α4 integrin DNA aptamer as a potential therapeutic tool for multiple sclerosis.
    Shirin Kouhpayeh, Zahra Hejazi, Maryam Boshtam, Mina Mirian, **Ilnaz Rahimmanesh,** Leila Darzi, Abbas Rezaei, Laleh Shariati, Hossein Khanahmad. 2019/9/2. Journal of Cellular Biochemistry.

27. Producing Soluble Human Programmed Cell Death Protein-1: A NaturalSupporter for CD4+T Cell Cytotoxicity and Tumor Cells Apoptosis.
    Samane Mohammadzadeh, Hossein Khanahmad, Nafiseh Esmaeil, Nahid Eskandari, **Ilnaz Rahimmanesh,** Abbas Rezaei, Alireza Andalib. 2019/12/3. Iranian journal of biotechnology.

28. Display of human and rabbit monocyte chemoattractant protein-1 onhuman embryonic kidney 293T cell surface.
    Maryam Boshtam, Seddigheh Asgary, **Ilnaz Rahimmanesh,** Shirin Kouhpayeh, Jamal Naderi, Zahra Hejazi, Hoda Mohammad-Dezashibi, Ina Laura Pieper, Hossein Khanahmad. 2018/10/5. Research in Pharmaceutical Sciences.

29. Construction and characterization of human embryonic kidney-(HEK)-293 T cell overexpressing truncated α4 integrin.
    Azam Fatahi, **Ilnaz Rahimmanesh,** Mina Mirian, Fattah Rohani, Maryam Boshtam, Azam Gheibi, Laleh Shariati, Hossein Khanahmad, Shirin Kouhpayeh. 2018/8/2. Research in Pharmaceutical Sciences.

30. Disruption of SOX6 gene using CRISPR/Cas9 technology for gamma-globin reactivation: An approach towards gene therapy of β-thalassemia.
    Laleh Shariati, Fattah Rohani, Nahid Heidari Hafshejani, Shirin Kouhpayeh, Maryam Boshtam, Mina Mirian, **Ilnaz Rahimmanesh,** Zahra Hejazi, Mehran Modarres, Ina Laura Pieper, Hossein Khanahmad. 2018/11. Journal of cellular biochemistry.

31. SmtDNA: A Geant4-DNA user application for evaluating radiation-induced damage in supercoiled mitochondrial DNA.
    MB Tavakoli, H Moradi, H Khanahmad, M Hosseini, **Ilnaz Rahimmanesh.** 2020/12/1. Journal of Biomedical Physics and Engineering.

32. Expression and Purification of Biologically Active Recombinant RabbitMonocyte Chemoattractant Protein1 in Escherichia coli.
    Maryam Boshtam, Hossein Khanahmad Shahreza, Sadegh Feizollahzadeh, **Ilnaz Rahimmanesh,** Sedigheh Asgary. 2018/5. FEMS microbiology letters.

33. The silencing effect of MIR-30a on ITGA4 gene expression *in vitro*: Anapproach for gene therapy.
    Leila Darzi, Maryam Boshtam, Laleh Shariati, Shirin Kouhpayeh, Azam Gheibi, Mina Mirian, **Ilnaz Rahimmanesh,** Hossein Khanahmad, Mohammad Amin Tabatabaiefar. 2017/12/3. Research in Pharmaceutical Sciences.

34. The Increase in Protein and Plasmid Yields of E. coli with OptimizedConcentration of Ampicillin as Selection Marker.
    Sadegh Feizollahzadeh, Shirin Kouhpayeh, **Ilnaz Rahimmansh,** Hossein Khanahmad, Faezeh Sabzehei, Mazdak Ganjalikhani-Hakemi, Alireza Andalib, Zahra Hejazi, Abbas Rezaei. 2014/8/2. Iranian Journal of Public Health.

35. Improvement of biodegradability of explosives using anaerobic- intrinsic bioaugmentation approach.
    Mohammad Mehdi Amin, Hossein Khanahmad, Fahime Teimouri, M Sadani, MA Karami, **Ilnaz Rahimmanesh.** 2017/8/2. Bulgarian Chemical Communications.

36. Cell surface display of rabbit MCP1 on human embryonic kidney 293T cell line.
    Ilnaz Rahimmanesh, Hossein Khanahmad, Maryam Boshtam, Shirin Kouhpayeh, Zahra Hejazi. 2017/1/5. NISCAIR-CSIR.

37. Recent Advances in Therapeutic Applications of Induced Pluripotent Stem Cells.
    Farzaneh Rami, Shamsi Naderi Beni, Mahboobeh Mojaver Kahnamooi, **Ilnaz Rahimmanesh,** Ahmad Reza Salehi, Rasoul Salehi. 2017/4/1. Cellular Reprogramming (Formerly" Cloning and Stem Cells").

38. Interleukin-33 plasma levels in patients with relapsing-remitting multiple sclerosis.
    Fereshteh Alsahebfosoul, **Ilnaz Rahimmanesh,** Mansour Shajarian, Masoud Etemadifar, Nahid Sedaghat, Zahra Hejazi, Shamsi Naderi. 2017/1/20. Biomolecular concepts.

39. Expression of biologically active murine interleukin 18 (IL-18) in Lactococcus lactis.
    Sadegh Feizollahzadeh, Hossein Khanahmad, **Ilnaz Rahimmanesh,** Mazdak Ganjalikhani-Hakemi, Alireza Andalib, Mohammad Hossein Sanei, Abbas Rezaei. 2016/11/1. FEMS Microbiology Letters.

40. Genetic disruption of the KLF1 gene to overexpress gamma-globin gene using CRISPR/ Cas9 system: KLF1 modification to overexpress gamma- globin by CRISPR.
    Laleh Shariati, Hossein Khanahmad, Mansoor Salehi, Zahra Hejazi, **Ilnaz Rahimmanesh,** Mohammad Amin Tabatabaiefar, Mohammad Hossein Modarressi. 2016/10. The journal of gene medicine.

41. Development of a Stable Cell Line, Overexpressing Human T-cell Immunoglobulin Mucin 1.
    Mina Ebrahimi, Tohid Kazemi, Mazdak Ganjalikhani-Hakemi, Jafar Majidi, **Ilnaz Rahimmanesh,** Vida Homayouni, Shirin Kohpayeh. 2015/12. Iranian journal of biotechnology.

42. High blood pressure and endothelial dysfunction: Effects of high blood pressure medications on endothelial dysfunction and new treatments.

Ilnaz Rahimmanesh, Marzieh Shahrezaei, Bahman Rashidi. 2012/3/1. J Res Med Sci.

43. Atherosclerosis and statins.
    Marzieh Shahrezaei, **Ilnaz Rahimmanesh,** Bahman Rashidi. 2011/6/22. Journal of Isfahan Medical School.

Teaching Experience:

- Tuition of gene editing tools applications workshop at Applied Physiology Research Center, Cardiovascular Research Institute, Isfahan University of Medical Science. 2023.
- Tuition of gene delivery tools for mammalian cells targeting workshop at Applied Physiology Research Center, Cardiovascular Research Institute, Isfahan University of Medical Science. 2023.
- Tuition of practical methods in molecular genetics workshop at Applied Physiology Research Center, Cardiovascular Research Institute, Isfahan University of Medical Science. 2023.
- Tuition of advanced flow cytometry workshop at Applied Physiology Research Center, Cardiovascular Research Institute, Isfahan University of Medical Science. 2022.
- Tuition of gene delivery workshop at core research facilities, Isfahan University of Medical Science. 2018.
- Tuition of gene cloning workshop at core research facilities, Isfahan University of Medical Science. 2018.
- Tuition of Biology for students of medicine. Isfahan University of Medical Science. 2013- 2014.
- Tuition of Biology for students of medicine. Isfahan University of Medical Science. 2014- 2015.
- Tuition of practical methods of gene cloning in and Extraction of plasmidfrom Ecoli workshop by Medical Education Development Center (EDC). Isfahan University of Medical Science. 2015.
- Tuition of practical methods of gene cloning in and Extraction of plasmidfrom Ecoli workshop by Medical Education Development Center (EDC). Isfahan University of Medical Science. 2016.

- Tuition of practical methods of gene cloning in and Extraction of plasmidfrom Ecoli workshop by Medical Education Development Center (EDC). Isfahan University of Medical Science. 2017.
- Tuition of practical methods of gene cloning in and Extraction of plasmidfrom Ecoli workshop by Medical Education Development Center (EDC). Isfahan University of Medical Science. 2014.
- Tuition of practical methods in molecular genetics for PhD. students of molecular medicine. Isfahan University of Medical Science. 2014.
- Tuition of practical methods in molecular genetics for PhD. students of molecular medicine. Isfahan University of Medical Science. 2015.
- Tuition of practical methods in molecular genetics for PhD. students ofmolecular medicine. Isfahan University of Medical Science. 2016.
- Tuition of practical methods in molecular genetics for M.Sc. students ofgenetics. Isfahan University of Medical Science. 2014.
- Tuition of practical methods in molecular genetics for M.Sc. students ofgenetics. Isfahan University of Medical Science. 2015.
- Tuition of practical methods in molecular genetics for M.Sc. students ofgenetics. Isfahan University of Medical Science. 2016.
- Tuition of practical methods in genetic engineering for M.Sc. students ofgenetics. Isfahan University of Medical Science. 2013.

Reviewer of Journals

- Current Cancer Drug Targets
- Molecular Genetics & Genomic Medicine
- Molecular Neurobiology
- Frontiers in Oncology
- Frontiers in Immunology
- MedComm – Oncology
- Frontiers in Pharmacology
- Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy
- Bioengineered

- Research in Pharmaceutical Sciences
- Advanced Biomedical Research

Membership of journal editorial board

- Archive of clinical case report

Professional Abilities:

- Routine laboratory skills in Molecular biology: PCR, DNA extraction, RNAextraction,
- DNA electrophoresis, Real time PCR, RT PCR, …).
- Routine laboratory skills in Microbiology.
- Immunology techniques (ELISA, DOT blot and flow cytometry).
- Mamalian cell culture methods.
- Western blot and SDS-PAGE.
- Gene transfer methods.
- Primary cell isolation and expansion.
- Chimeric Antigen Receptor T/NK cell.
- Gene Editing Tools (Crispr-cas9, TALEN, Zink finger nuclease)
- Good clinical practice (GMP) and good laboratory practice (GLP) techniques.
- Cancer mouse model generation.
- Nanotechnology platforms.

Research Interests:

- Gene therapy
- Gene Cloning
- Chimeric antigen receptor (CAR) therapy
- Personalized therapy
- Gene editing tools techniques
- Gene delivery platforms

Referees:

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