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Publications

1. Aliabadi M, Soleimani AA, Taheripak G, Nourbakhsh M, Meshkani R. Co-administration of empagliflozin and curcumin attenuates the development of MASLD by modulating lipid metabolism and adipose tissue browning in HFD-fed C57BL/6J mice. *Life Sci.* 2026;405:124716.

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12. Nourbakhsh M, Miryounesi M, Tale A, Karimzadeh P, Sadeghi H, Ghasemi MR, Alipour N, Pourbakhtyaran E, Hooman N, Razzaghy-Azar M et al. Glycine N-Acyltransferase Deficiency due to a Homozygous Nonsense Variant in the GLYAT: A Novel Inborn Error of Metabolism. *JIMD Rep.* 2025, 66(5):e70032.
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Conference presentations

1. Elevated Expression of lncRNA SOX2-OT in Type 2 Diabetes and Its Correlation with Glycemic Indices. 18th European Diabetes and Endocrinology Congress, March 10-11, 2025 | Rome, Italy
2. Tamkini M, Nourbakhsh M, Movahedi M, Golestani A. Modulation of SIRT1-related microRNAs in differentiating adipocytes and their relationship with inflammation. Joint Congress of ESPE and ESE 2025, Copenhagen, Denmark, May 2025, Endocrine Abstracts (2025) Vol 110
3. Nourbakhsh M, Nourbakhsh M, Razzaghy-Azar M, yousefi Z, Maleki MH, Taheri A. Enhanced histone acetylation in children with obesity: relationship with insulin resistance and inflammation. Horm Res Paediatr 2023;96(suppl 4):1-643, , 60th Annual Meeting of the European Society for Paediatric Endocrinology (ESPE) Hague, Netherlands, September 21-23, 2024
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6. Aliabadi M, Azadi Pourghahestani MR, Nourbakhsh M, Nourbakhsh M, Assessing the association of serum vitamin D levels in girls with precocious puberty, 14th International Congress of Medical Laboratory and Clinic, 2-4 February 2023, Tehran, Iran.
7. Nourbakhsh M, Farokh-Nezhad R, Razzaghy-Azar M, Sharifi R, Yaghmaei P, Nourbakhsh M. The effect of trans-palmitoleic acid on lipid accumulation and the fatty acid synthase gene

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 11. Nourbakhsh M, Nicotinamide adenine dinucleotide (NAD⁺) in cancer and its treatment potentials. 16th National Congress of Biochemistry & 7th International Congress of Biochemistry & Molecular Biology, November 9-12, 2020. Tehran, Iran
 12. Farokh Nezhad R, Nourbakhsh M, Sharifi R, Yousefi Z, Abdolvahabi Z, Yaghmaei P. Lipid accumulation and SIRT1 gene expression in HepG2 cells and their viability in response to trans-palmitoleic acid. 16th National Congress of Biochemistry & 7th International Congress of Biochemistry & Molecular Biology, November 9-12, 2020. Tehran, Iran
 13. Golpour P, Nourbakhsh M, Mazaherioun M, Nourbakhsh M. The effect of omega-3 polyunsaturated fatty acids supplementation on NRF2 and Sestrin2 gene expression and antioxidant status in patients with type 2 diabetes: a randomized placebo-controlled double-blind clinical trial. 16th National Congress of Biochemistry & 7th International Congress of Biochemistry & Molecular Biology, November 9-12, 2020. Tehran, Iran
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 23. Yarahmadi S, Nourbakhsh M, Dadkhah Nikroo N, Malek M, Evaluation of adipose triglyceride lipase gene expression in peripheral blood mononuclear cells of patients with obesity compared with normal subjects. The 15th Iranian national congress of biochemistry and 6th international congress of biochemistry and molecular biology, August 25-28, 2018, Tehran, Iran

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27. Nourbakhsh M, Arab Sadeghabadi Z, Razzaghy Azar M, Angiopoietin-like protein 2 is associated with dyslipidemia and hypertension in children and adolescents, 14th Middle East Metabolic Group Meeting (MEMG), Feb 9-11, Athens, Greece, 2018
28. Nourbakhsh M, Arab Sadeghabadi Z, Pasalar P, Golestani A, Razzaghy Azar M. Reduced AMP-activated protein kinase in obese children and adolescents and its association with insulin resistance. 43rd Annual Meeting of the International Society for Pediatric and Adolescent Diabetes (ISPAD), Pediatric Diabetes, Innsbruck, Austria, 2017 (18): Supplement 25
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44. M. Nourbakhsh, M. Zahraei, A. Golestani, MH. Modarressi, F. Karami-Tehrani. testosterone-induced cellular proliferation and telomerase up-regulation in ovarian cancer, 34th FEBS (federation of European biochemical societies) congress, Prague, Czech Republic, 4-9 July 2009, FEBS J, Volume 276, Issue Supplement s1
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47. M. Firoozray, M. Razzaghy-Azar, M. Nourbakhsh, The effect of oxidative stress on erythrocyte lipids in type 1 diabetes mellitus, Horm. Res. 62 (S2) (2004) 134, P3-480 (43th Annual Meeting of European Society for Pediatric Endocrinology (ESPE), Basel, Switzerland, 10–13 September 2004). Horm Res Paediatr Vol. 62, Suppl. 2, 2004

Patents	Cyproheptadine as a novel drug for treatment of patients with growth hormone insensitivity syndrome (Larone syndrome). Iran patents No. 97150, Date 2018-11-10
Teaching experience	Teaching biochemistry and related subjects to undergraduate and graduate students (MSc and PhD in Biochemistry) Invited Professor for Biochemistry of Cancer for PhD students in Clinical Biochemistry at Tehran University of Medical Sciences (2012–present) Teaching biochemistry to medical students (Cell and Molecular Biochemistry, Biochemistry Discipline, Digestion Biochemistry, Hormone Biochemistry) Teaching biochemistry in English to international students in Medicine, Pharmacy, and Dentistry Teaching biochemistry to MSc and PhD students in Physiology, Immunology, and Microbiology Teaching biochemistry to students of Nursing, Public Health, and Optometry Re-developed the biochemistry curriculum for medical students at Iran University of Medical Sciences and Tehran University of Medical Sciences Contributed to the development of the national curriculum for medical students Re-designed selected graduate-level biochemistry courses Implemented an integrative Metabolic Disorders course for PhD students in Biochemistry (Awarded in the Motaharri Festival of Education) Delivered educational lectures for specialists in Endocrinology and Metabolism Designed and implemented numerous educational workshops Developed and delivered virtual courses for undergraduate and graduate biochemistry students
Executive Activities	Member of the Board of Clinical Biochemistry of Iran, Ministry of Health and Medical Education (2018- present) Member of the Board of Directors of the Biochemical Society of Iran (2020- present)

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Member of the Accreditation Committee of the Council for Basic Medical Sciences, Ministry of Health and Medical Education (2024-present)

Member of the Board of Directors of the Trace Element Society of Iran 2020- present

Head of the Student Research Committee of Iran University of Medical Sciences, Iran University of Medical Sciences (2024-present)

Head of the Department of Clinical Biochemistry, Iran University of Medical Sciences, (2020-2023 and 2025-present)

Head of the Student Research Committee of the School of Medicine, Iran University of Medical Sciences (2019-2024)

Deputy for Medical Education in the Department of Clinical Biochemistry, Iran University of Medical Sciences (2013- 2025)

Chairman of the Basic Science Committee of General Medicine Group, Iran University of Medical Sciences

Member of the Accreditation Committee of Medical Education in Iran University of Medical Sciences

Member of the Education Planning Committee of the School of Medicine, Iran University of Medical Sciences

Member of the Biosafety Committee of the Medical School of Iran University of Medical Sciences

Member of the Research Council of Metabolic Disorders Research Center, Endocrinology and Metabolism Research Institute, Tehran University of Medical Sciences

Member of the Research Council of of Iran University of Medical Sciences (2024-present)

Member of the Research council of the School of Medicine, Iran University of Medical Sciences (2019-2023, and 2025-present)

Member of the Research Council of the Student Research Committees of Iran University of Medical Sciences (2019-present)

Member of the editorial board of the Journal of Diabetes and Metabolic Disorders

Member of the editorial board of the AActa Biochimica Iranica

Scientific secretary of the Iran Trace Element Society (2010-2016)

Founder member of the Metabolic Disorders Research Center, Tehran University of Medical Sciences, Tehran, Iran

Founder member of the Finetech in Medicine Research Center, Iran University of Medical Sciences, Tehran, Iran

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Awards and Achievement

- S**
- Mentorship Recognition Award and Sheikh Mofid Prize, National Elites Foundation, 2024
 - Awarded as Outstanding Professor, International Campus, Iran University of Medical Sciences, 2023
 - Awarded as Outstanding Professor, International Campus, Iran University of Medical Sciences, 2025
 - Ranked 1st in the Laboratory Sciences Fellowship Entrance Examination, 2024
 - Recognized as an Elite Professor in Basic Sciences by the Ministry of Health and Medical Education, 2023
 - Selected as the distinguished researcher of Iran University of Medical Sciences, 2022
 - Best Professor award in the 5th Dr. Vosough Educational Festival in Iran University of Medical Sciences in 2020
 - Best educational process of Iran University of Medical Sciences in Motahari Educational Festival in 2019
 - Best educational process of Iran University of Medical Sciences in Motahari Educational Festival in 2015
 - Best poster presentation in the 13th Middle East Metabolic Group meeting, 2017
 - Best oral presentation in the 10th National Congress of Biochemistry and 3rd International Congress of Biochemistry and Molecular Biology, 2009
 - Awarded as the exceptional talent student in Tehran University of Medical Sciences, 2007
 - Best post-graduate student in Tehran University of Medical Sciences, 2006
 - Awarded for ranking number 1 among the PhD candidates of Clinical Biochemistry from Ministry of Health and Medical Education, 2005