



# Inji Shikhaliyeva

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## *Research areas*

Stem cells  
Regenerative medicine  
Mechanisms of cell death  
Biomaterial production  
Mycotoxins  
Toxicology

## *Education*

- August 2019 - May 2023 **ISTANBUL UNIVERSITY**  
*Molecular Biology and Genetics, PhD*  
Topic of thesis: Screening Effects of Mycotoxins on the Survival and Proliferation of Mesenchymal Stem Cells at Transcriptomic Level
- October 2012 - July 2015 **HACETTEPE UNIVERSITY**  
*Bioengineering, Master*  
Topic of thesis: Investigation of osteogenic differentiation of mesenchymal stem cells on boron containing HAp-coated chitosan scaffolds
- September 2006 - May 2010 **BAKU STATE UNIVERSITY**  
*Biology, Bachelor*  
Topic of thesis: Segregation and utilization of solid household waste

## *Research experiences*

- 2020 – 2023 *Istanbul University*  
*Department of Molecular Biology and Genetics*  
*Laboratory of Stem Cell*
- 20121– 2023 *Istanbul University*  
*Department of Biology*  
*Laboratory of Molecular Biology*
- 2019 – 2023 *Istanbul University*  
*Department of Molecular Biology and Genetics*  
*Laboratory of Plant Pathology and Technologies*

February – May 2019	<i>Medipol University Department of Embryology and Histology Laboratory of Stem Cell</i>
2018 – 2020	<i>Yeni Yuzyil University/Faculty of Medicine Laboratory of Life Science and Technologies</i>
January– May 2018	<i>Yildiz Technical University/Department of Bioengineering Laboratory of Stem Cell and Regenerative Medicine</i>
July – August 2017	<i>Intergene Genetic and Rare Diseases Diagnosis Research and Application Center</i>
2017 – 2018	<i>Uludag University/Department of Medical Biology</i>
2012 – 2015	<i>Hacettepe University Tissue Engineering Laboratory</i>
2012 – 2015	<i>Hacettepe University Laboratory of Stem Cell</i>

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## *Projects*

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2022 – 2024	Istanbul University BAP Project No: FBA-2022-38455  “Investigation of the cytotoxic effect of carbendazim on the dental pulp stem cells via the apoptosis pathway”
2020 – 2022	TUBITAK 1001 /KBAG Project No: 119Z366  “Antifungal effect of pesticide active compounds on <i>Fusarium</i> species and investigation resistance levels of molecular mechanisms”
2019 – 2022	Istanbul University BAP Project No: FDK-2019-34442  “Screening Effects of Mycotoxins on the Survival and Proliferation of Mesenchymal Stem Cells at Transcriptomic Level”
2012 – 2015	TUBITAK 1001 Project No: 112M705  “Investigation of osteogenic differentiation of mesenchymal stem cells on boron containing HAp-coated chitosan scaffolds”
2009 – 2011	The pilot project in Icherisheher  “The collection and separation of municipal solid waste” 2009-2011 (Information project approved under the Small Grants Program OSCE “Civil Initiatives on Safety and Environment”, funded by the Austrian Government and Statoil

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## *Career activities*

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- 2009-2011 “EkoSfera” Social-Ecological Center/Volunteer
- 2023 *V.Y. Akhundov Scientific Research Medical Preventive Institute*  
*Department of Genetic Engineering and Biotechnology*  
*Head of Division of Stem Cell and Regenerative Medicine*
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## *Articles*

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- 2023 Shikhaliyeva I., Kığ C., Gömeç Ö. Y., Albayrak, G. (2023) Fusariotoxin-Induced Toxicity in Mesenchymal Stem Cells and Fibroblasts: A Comparison Between Differentiated and Undifferentiated Cells, *Turkish Journal of Pharmaceutical Sciences*.
- 2020 Shikhaliyeva, I., Teker, T., Albayrak, G. (2020). Masked Mycotoxins of Deoxynivalenol and Zearalenone - Unpredicted Toxicity. *Biomed. J. Sci. Tech. Res*, 29, 22288-22293.
- 2019 Akdere, Ö. E., Shikhaliyeva, İ., Gümüşderelioğlu, M. (2019). Boron mediated 2D and 3D cultures of adipose derived mesenchymal stem cells. *Cytotechnology*, 71(2), 611-622.
- 2017 Gümüšoğlu, E., Ateş, E.A., Shikhaliyeva, I., Özer, Ö., Günel, T. (2017) Molecular approaches to immunotherapy. Review. *Molbigen/Journal of Molecular Biology and Genetics*. Vol(2), 69-85.
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## *Achievements*

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### *Skill highlights*

Tissue Culture  
Stem Cell Culture  
3D Tissue Culture  
Fungal Culture  
Phase Contrast Microscopy  
Fluorescence Microscopy  
PCR/RT-qPCR  
Droplet PCR  
Flow Cytometry  
Western Blotting  
GraphPad Prism 8  
Molecular Docking  
Biomaterial/Scaffold Production

Turkey Scholarship (YTB) /2011-2015

“Dövlət Xətti” Scholarship  
Ministry of Education of Azerbaijan /2011-2014

“Dövlət Proqramı” Scholarship  
Increasing the international competitiveness of the higher education system in the Republic of Azerbaijan /2020-2023

ERASMUS+ Scholarship /2020  
University of Perugia/Italy  
Department of Chemistry, Biology and Biotechnologies  
Section of Biochemical and Biotechnological Sciences

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### *Languages*

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Azerbaijani (native)	English (fluent)
Russian (advanced)	Turkish (advanced)