

## Asst. Prof. NİHAL TERZİ ÇİZMECİOĞLU

### Personal Information

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### International Researcher IDs

ScholarID: vmQGexMAAAAJ

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Publons / Web Of Science ResearcherID: D-4803-2019

ScopusID: 57221798722

Yoksis Researcher ID: 253011

### Education Information

Doctorate, Harvard University, United States Of America 2005 - 2011

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, Turkey 2001 - 2005

### Research Areas

Molecular Biology and Genetics

### Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2016 - 2018

### Courses

MOLECULAR AND CELLULAR BIOLOGY II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

EPIGENETICS IN HEALTH AND DISEASE, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Introduction to Molecular Biology, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

EPIGENETIC MECHANISMS OF CELL FATE, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

### Advising Theses

Terzi Çizmecioglu N., Investigating the role and regulation of H3K36 methylation in neuroectodermal lineage commitment of mouse embryonic stem cells, Postgraduate, D.SEZGİN MERT(Student), 2023

Terzi Çizmecioglu N., The effect of SETD3 on beta-catenin and canonical WNT signaling pathway activity in mouse

embryonic stem cells, Postgraduate, C.ALGANATAY(Student), 2023

Terzi Çizmeciöđlu N., Setd3-dependent gene expression changes during endoderm differentiation of mouse embryonic stem cells, Postgraduate, E.BALBAŖI(Student), 2022

Terzi Çizmeciöđlu N., Identification of protein partners of SETD3 in mouse embryonic stem cells, Postgraduate, G.GÜVEN(Student), 2021

TERZİ ÇİZMECİÖĐLU N., Identification of transcription factors that interact with Arid4b protein in mouse embryonic stem cells, Postgraduate, E.Gül(Student), 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **SETD3 regulates endoderm differentiation of mouse embryonic stem cells through canonical Wnt signaling pathway.**  
Alganatay C., Balbasi E., Tuncbag N., Sezginmert D., Terzi Cizmecioglu N.  
FASEB journal : official publication of the Federation of American Societies for Experimental Biology, vol.38, no.4, 2024 (SCI-Expanded)
- II. **Roles and Regulation of H3K4 Methylation During Mammalian Early Embryogenesis and Embryonic Stem Cell Differentiation.**  
Terzi Cizmecioglu N.  
Advances in experimental medicine and biology, 2024 (SCI-Expanded)
- III. **Histone proteomics implicates H3K36me2 and its regulators in mouse embryonic stem cell pluripotency exit and lineage choice**  
Terzi Çizmeciöđlu N., Sezginmert D.  
TURKISH JOURNAL OF BIOCHEMISTRY, vol.48, no.4, pp.351-361, 2023 (SCI-Expanded)
- IV. **Arid4b alters cell cycle and cell death dynamics during mouse embryonic stem cell differentiation.**  
Güven G., Terzi Çizmeciöđlu N.  
Turkish journal of biology = Turk biyoloji dergisi, vol.45, no.1, pp.56-64, 2021 (SCI-Expanded)
- V. **Arid4b physically interacts with Tfp2c in mouse embryonic stem cells**  
Keskin E. G., Huang J., TERZİ ÇİZMECİÖĐLU N.  
TURKISH JOURNAL OF BIOLOGY, vol.45, no.2, pp.162-170, 2021 (SCI-Expanded)
- VI. **ARID4B is critical for mouse embryonic stem cell differentiation towards mesoderm and endoderm, linking epigenetics to pluripotency exit**  
TERZİ ÇİZMECİÖĐLU N., Huang J., Keskin E. G., Wang X., Esen I., Chen F., Orkin S. H.  
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.295, no.51, pp.17738-17751, 2020 (SCI-Expanded)
- VII. **Microprocessor Recruitment to Elongating RNA Polymerase II Is Required for Differential Expression of MicroRNAs**  
Church V. A., Pressman S., Isaji M., Truscott M., Cizmecioglu N., Buratowski S., Frolov M. V., Carthew R. W.  
CELL REPORTS, vol.20, no.13, pp.3123-3134, 2017 (SCI-Expanded)
- VIII. **H3K4 trimethylation by Set1 promotes efficient termination by the Nrd1-Nab3-Sen1 pathway.**  
Terzi N., Churchman L., Vasiljeva L., Weissman J., Buratowski S.  
Molecular and cellular biology, vol.31, pp.3569-83, 2011 (SCI-Expanded)
- IX. **Transcription termination and RNA degradation contribute to silencing of RNA polymerase II transcription within heterochromatin.**  
Vasiljeva L., Kim M., Terzi N., Soares L., Buratowski S.  
Molecular cell, vol.29, pp.313-23, 2008 (SCI-Expanded)
- X. **An embryonic poly(A)-binding protein (ePAB) is expressed in mouse oocytes and early preimplantation embryos.**  
Seli E., Lalioti M., Flaherty S., Sakkas D., Terzi N., Steitz J.  
Proceedings of the National Academy of Sciences of the United States of America, vol.102, pp.367-72, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Application of CRISPR/Cas9 Pooled Screening for a Non-immediate Readout Model**  
TERZİ ÇİZMECİOĞLU N.  
Methods in molecular biology (Clifton, N.J.), vol.2849, pp.87-116, 2024 (Scopus)
- II. **ARID4B loss leads to activated STAT1-dependent interferon pathway in mouse embryonic stem cells and during meso/endodermal differentiation.**  
Terzi Çizmecioglu N.  
Journal of the Turkish German Gynecological Association, vol.24, no.3, pp.187-196, 2023 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **BRD2 Interacts with SETD3 in Mouse Embryonic Stem Cells**  
TERZİ ÇİZMECİOĞLU N.  
Turkish Proteomics Association TuPA2023 International Congress, Ankara, Turkey, 13 - 14 October 2023
- II. **Setd3-dependent gene expression changes during endoderm differentiation of mouse embryonic stem cells**  
Balbaşı E., TERZİ ÇİZMECİOĞLU N.  
1st International Congress of Histology and Embryology, Turkey, 26 - 28 May 2022
- III. **Embriyonik Kök Hücrelerde Setd3 Proteiniyle İlişkili Proteinlerin Proteomik Açından Belirlenmesi**  
GÜVEN G., Keskin E. G., Balbaşı E., TERZİ ÇİZMECİOĞLU N.  
3. Ulusal Proteomik Kongresi, İstanbul, Turkey, 27 - 29 February 2020
- IV. **The Effect of Sin3a Complex on Cell Cycle and Cell Death in Mouse Embryonic Stem Cells**  
GÜVEN G., TERZİ ÇİZMECİOĞLU N.  
7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019
- V. **Identification of Transcription Factors that Interact with Arid4b in Mouse Embryonic Stem Cells**  
Keskin E. G., TERZİ ÇİZMECİOĞLU N.  
7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019
- VI. **Chromatin Dynamics in Lineage Decisions**  
TERZİ ÇİZMECİOĞLU N.  
7th International Congress of the Molecular Biology Association of Turkey, 27 - 29 September 2019
- VII. **Chromatin alters the lineage potential of mouse embryonic stem cells.**  
TERZİ ÇİZMECİOĞLU N., Huang J., Keskin E. G., Wang X., Esen İ., Orkin S. H.  
International Society for Stem Cell Research (ISSCR) 2017 Annual Meeting, Boston, United States Of America, 14 - 17 June 2017
- VIII. **Chromatin alters the lineage potential of mouse embryonic stem cells**  
TERZİ ÇİZMECİOĞLU N., Huang J., Keskin E. G., Wang X., Esen İ., Orkin S. H.  
BIOMED2017, Ankara, Turkey, 12 May 2017 - 14 January 2018
- IX. **Epigenetic Control of Lineage Commitment of Mouse Embryonic Stem Cells**  
TERZİ ÇİZMECİOĞLU N.  
4th International Congress of Molecular Biology Association of Turkey (MolBiyoKon 2015), Ankara, Turkey, 27 - 29 November 2015

## Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2022

TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, August 2021

## **Metrics**

Publication: 25

Citation (WoS): 286

Citation (Scopus): 298

H-Index (WoS): 5

H-Index (Scopus): 5

## **Congress and Symposium Activities**

The 7th International Congress of Molecular Biology Association, Invited Speaker, İstanbul, Turkey, 2019

## **Awards**

Terzi Çizmecioğlu N., Bilim Kadınları için, Unesco/L'oreal, October 2021