

**Asst. Prof. SIDIKA TAPŞIN
GÜLLÜOĞLU**



Personal Information

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International Researcher IDs

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Education Information

Doctorate, National University of Singapore, Yong Loo Lin School of Medicine ,
Biochemistry, Turkey 2016 - 2019
Postgraduate, Yeditepe University, Institute Of Biotechnology, Turkey 2011 - 2015
Undergraduate, Istanbul University, Faculty Of Science, Moleküler Biyoloji Ve Genetik
Bölümü, Turkey 2006 - 2010

Biography

Sidika Tapsin, PhD is an Assistant Professor at Marmara University. Tapsin has received her MSc from Yeditepe University by her working on mechanism of boron derivatives for treatment of renal cell carcinoma. Additionally, she has extensive experience and knowledge on isolation, characterization and differentiation of stem cells from tissues and their replantation for cell therapy. Tapsin has received her PhD from National University of Singapore by her work about genome-wide identification and functional characterization of RNA aptamers in bacteria and yeast. She also has experience on mapping of genome-wide RNA-RNA interaction on human and bacteria involving Next-Gen sequencing library preparation and analysis. Tapsin is interested in drug development and revealing their mechanisms; RNA vaccine researches and analysis of microbiome and microbiota changes upon disease progression or drug treatments studies.

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Vocational Training, Deney Hayvanları Kullanım Sertifikası, Yeditepe University, 2015

Dissertations

Doctorate, GENOME-WIDE IDENTIFICATION OF RNA SENSORS IN PROKARYOTES AND EUKARYOTES, National University of Singapore, Yong Loo Lin School of Medicine, Biochemistry, 2019

Postgraduate, MECHANISM OF BORON DERIVATIVES FOR TREATMENT OF RENAL CELL CARCINOMA, Yeditepe University, Institute Of Biotechnology, 2014

Research Areas

Medicine, Biotechnology, Molecular Biology and Genetics, Genetic Disorders, Genetic Engineering, Genomics, Animal Molecular Genetics, Molecular Biology of Cancer, Microbial Genetics

Academic Titles / Tasks

Assistant Professor, Marmara University, School of Medicine, Basic Medical Sciences, 2020 - Continues

Courses

Devices for Molecular Biology, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Suppressor Effects of Sodium Pentaborate Pentahydrate and Pluronic F68 on Adipogenic Differentiation and Fat Accumulation**
Yilmaz A. B., Tapsin S., Elbasan E. B., Kayhan H. D., Sahin F., Turkel N.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.193, no.2, pp.390-399, 2020 (SCI-Expanded)
- II. **Genome-wide identification of natural RNA aptamers in prokaryotes and eukaryotes**
Tapsin S., Sun M., Shen Y., Zhang H., Lim X. N., Susanto T. T., Yang S. L., Zeng G. S., Lee J., Lezhava A., et al.
NATURE COMMUNICATIONS, vol.9, 2018 (SCI-Expanded)
- III. **Tooth replantation with adipose tissue stem cells and fibrin sealant: microscopic analysis of rat's teeth.**
Demirel S., Yalvac M. E., Tapsin S., Akyuz S., AK E., ÇETİNEL Ş., YARAT A., ŞAHİN F.
SpringerPlus, vol.5, pp.656, 2016 (SCI-Expanded)
- IV. **In Vivo Mapping of Eukaryotic RNA Interactomes Reveals Principles of Higher-Order Organization and Regulation**
Aw J. G. A., Shen Y., Wilm A., Sun M., Lim X. N., Boon K., Tapsin S., Chan Y., Tan C., Sim A. Y. L., et al.
MOLECULAR CELL, vol.62, no.4, pp.603-617, 2016 (SCI-Expanded)
- V. **Isolation and characterization of dental pulp stem cells from a patient with Papillon-Lefèvre syndrome.**
Tasli P. N., Tapsin S., Demirel S., Yalvac M. E., Akyuz S., YARAT A., ŞAHİN F.
Journal of endodontics, vol.39, no.1, pp.31-8, 2013 (SCI-Expanded)

Books & Book Chapters

- I. **Autoimmune Diseases in Cancer**
Tapsın Güllüoğlu S.
in: Autoimmunity and Cancer, Soner Şahin, Kenan Demir, Editor, NOVA Science Publishers Inc. , İstanbul, pp.167-184, 2022

Supported Projects

Gülhan R., Günal D., Aydın Omay B., Tapşın Güllüoğlu S., Ömercikoğlu Özden H., Güllüoğlu Ş., TUBITAK Project,

Metabolomics-Driven Biomarker Discovery of Alzheimer's Disease, 2024 - 2027

Tapşın Güllüoğlu S., Güllüoğlu Ş., Taktak Karaca B., Akkoç T., Karataş Bristow H., Project Supported by Higher Education Institutions, Investigation of the functional activities of HoxA9-like peptidomimetic inhibitors in Acute Myeloid Leukemia

AML cells and their effects on cancer differentiation, 2024 - 2026

Patent

Tapşın Güllüoğlu S., SODYUM PENTABORAT PENTAHİDRATIN BİR KEMOTERAPÖTİK AJAN OLARAK KULLANILMASI,

Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2022/007524 , Standard Registration, 2022

Scientific Refereeing

TURKISH JOURNAL OF MEDICAL SCIENCES, National Scientific Refreed Journal, May 2024

Emergency R&D Project of Group A, Marmara University, Turkey, March 2024

Emergency R&D Project of Group A, Marmara University, Turkey, February 2024

Emergency R&D Project of Group A, Marmara University, Turkey, August 2023

CURRENT CANCER DRUG TARGETS, Journal Indexed in SCI-E, December 2022

CURRENT CANCER DRUG TARGETS, Journal Indexed in SCI-E, December 2022

CURRENT JOURNAL OF MEDICAL RESEARCH, Journal Indexed in SCI-E, November 2022

Metrics

Publication: 6

Citation (WoS): 255

Citation (Scopus): 288

H-Index (WoS): 4

H-Index (Scopus): 4

Scholarships

Singapore International Graduate Award (SINGA) - A*Star, Official Institutions of Foreign Countries, 2015 - 2019

Travel award, Other International Organizations, 2016 - 2016

Lisansüstü Öğrenci Bursu, University, 2011 - 2014

Summer Research Internship Scholar, Other International Organizations, 2011 - 2011

Awards

Tapşın Güllüoğlu S., Young Investigator Award, Biosystem Design Symposium, Biopolis, Singapore, May 2018

Tapşın Güllüoğlu S., Bölüm İkinciliği, İstanbul Üniversitesi, July 2010

Non Academic Experience

Genome Institute of Singapore

Yeditepe Üniversitesi