

Asst. Prof. Emre DENİZ

Personal Information

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Biography

Assist. Prof. Dr. Emre Deniz studied Molecular Biology and Genetics at Bilkent University (Ankara/Turkey) and received his BSc degree in 2005. During his education, he participated in Prof. Dr. Aziz Sancar's research group at the University of North Carolina Chapel Hill (USA - summer of 2007) and in European Molecular Biology Laboratories (EMBL-Heidelberg) (Germany - summer of 2008) as a trainee and actively involved in the scientific research projects. He earned his PhD degree in Biological Sciences and Bioengineering in 2014 from Sabanci University (Istanbul/Turkey). He was granted a research fellowship from the European Molecular Biology Organisation (EMBO) in 2013 in order to perform a part of his PhD dissertation in Medical University of Vienna (Austria). He worked as a postdoctoral researcher in the Sabanci University Nanotechnology Research and Application Center (SUNUM) in between 2014 and 2015. Dr. Deniz currently works as a faculty in the department of Molecular Biology and Genetics in Acibadem Mehmet Ali Aydinlar University.

Education Information

Doctorate, Sabanci University, Institute Of Science, Biological Sciences and Bioengineering, Turkey 2009 - 2014

Under Graduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, Turkey 2005 - 2009

Foreign Languages

English, C2 Proficiency

Dissertations

Doctorate, The role of PATZ1 transcription factor in the dna damage response, Sabanci University, Institute Of Science, Biological Sciences and Bioengineering, 2014

Research Areas

Molecular Biology and Genetics

Academic Titles / Tasks

Assistant Professor, Acibadem Mehmet Ali Aydinlar University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2015 - Continues

Professional Experience

Erasmus Coordinator, Acibadem Mehmet Ali Aydinlar University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2017 - Continues

Fakülte Yönetim Kurulu Üyesi, Acibadem Mehmet Ali Aydinlar University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2016 - Continues

Fakülte Kurulu Üyesi, Acibadem Mehmet Ali Aydinlar University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2016 - Continues

Courses

Molecular Cellular Biology II, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Molecular Biology of Cancer, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Molecular and Translational Biomedicine, Post Graduate, 2017 - 2018, 2018 - 2019

Molecular Cellular Biology I, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Introduction to Molecular and Translational Biomedicine, Post Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

Molecular Genetics, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019

Advising Theses

Deniz E., Identification of Chemotherapeutic Drug Resistance Mechanisms in Human Cancer Cells Using Genome Scale CRISPR/Cas9 Knock-Out Library, Post Graduate, Z.HAZAL(Student), 2019

Deniz E., The Role of Long Non-Coding RNA DANCR in The DNA Damage Response, Post Graduate, G.BARAN(Student), 2019

Tokcaer Keskin Z., Deniz E., Investigating the Effects of 5,10-Methylenetetrahydrofolate Reductase C677T Polymorphism on Human Mesenchymal Stem Cells by Using CRISPR/Cas9 System as a Gene Editing Tool, Post Graduate, B.TALUĞ(Student), 2019

Müftüoğlu M., Deniz E., Modification of catalytic subunit of dna polymerase gamma by CRISPR/CAS9 genome editing technology, Post Graduate, A.EKMEKÇİOĞLU(Student), 2018

Program Developments

Deniz E., Tokcaer Keskin Z., Yakicier M. C. , Masters With Thesis, Molecular and Translational Biomedicine, 2017 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Long noncoding RNA (lincRNA), a new paradigm in gene expression control**
Deniz E., Erman B.
FUNCTIONAL & INTEGRATIVE GENOMICS, vol.17, pp.135-143, 2017 (Journal Indexed in SCI)
- **Screening of new antileukemic agents from essential oils of algae extracts and computational modeling of their interactions with intracellular signaling nodes**
Ataseyer-Arslan B., Yilancioglu K., Kalkan Z., Timucin A. C. , Gur H., Isik F. B. , Deniz E., Erman B., Cetiner S.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.83, pp.120-131, 2016 (Journal Indexed in SCI)
- **PATZ1 Is a DNA Damage-Responsive Transcription Factor That Inhibits p53 Function**
Keskin N., Deniz E., Eryilmaz J., Un M., Batur T., Ersahin T., Atalay R. C. , Sakaguchi S., Ellmeier W., Erman B.
MOLECULAR AND CELLULAR BIOLOGY, vol.35, pp.1741-1753, 2015 (Journal Indexed in SCI)
- **Cd81 Interacts with the T Cell Receptor to Suppress Signaling**

Cevik S. I. , Keskin N., Belkaya S., Ozlu M. I. , Deniz E., Tazebay U. H. , Erman B.
PLOS ONE, vol.7, 2012 (Journal Indexed in SCI)

- **CD8 Lineage-specific Regulation of Interleukin-7 Receptor Expression by the Transcriptional Repressor Gfi1**

Lignons D. L. , Tuncer C., Linowes B. A. , Akcay I. M. , Kurtulus S., Deniz E., Arslan B. A. , Cevik S. I. , Keller H. R. , Luckey M. A. , et al.

JOURNAL OF BIOLOGICAL CHEMISTRY, vol.287, pp.34386-34399, 2012 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **A long noncoding RNA repressed by DNA damage mediates cell survival and proliferation**

Baran G., Kılıç İ. B. , Keskin Toklu N., Tokcaer Keskin Z., Deniz E.

Seventh International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, pp.83

- **Identification of resistance mechanisms against cytotoxic drugs using genome-wide CRISPR/Cas9 Knock-out screening approach**

Yılmaz Z. H. , Tokcaer Keskin Z., Keskin Toklu N., Deniz E.

Seventh International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, pp.172

- **Identifying novel alternative splicing changes during reprogramming of somatic cells to induced pluripotent stem cells**

Kılıç İ. B. , Erman M. B. , Deniz E.

Organelle Biogenesis and Function in Cell physiology and in Disease conference, İstanbul, Turkey, 27 - 28 May 2019, pp.57

- **Genome-wide screening of resistance mechanisms against cytotoxic drugs**

Yılmaz Z. H. , Tokcaer Keskin Z., Keskin Toklu N., Deniz E.

Organelle Biogenesis and Function in Cell physiology and in Disease conference, İstanbul, Turkey, 27 - 28 May 2019, pp.65

- **Investigating the Effects of 5,10-Methylenetetrahydrofolate Reductase C677T Polymorphism on Mesenchymal Stem Cells by Using CRISPR/Cas9 System as a Gene Editing Tool**

Taluğ B., Deniz E., Tokcaer Keskin Z.

Organelle Biogenesis and Function in Cell physiology and in Disease conference, İstanbul, Turkey, 27 - 28 May 2019, pp.52

- **A long noncoding RNA repressed by DNA damage mediates cell survival and proliferation**

Baran G., Keskin Toklu N., Tokcaer Keskin Z., Deniz E.

Organelle Biogenesis and Function in Cell physiology and in Disease conference, İstanbul, Turkey, 27 - 28 May 2019, pp.55

- **Identifying novel alternative splicing changes during reprogramming of somatic cells to induced pluripotent stem cells**

Kılıç İ. B. , Erman M. B. , Deniz E.

International Molecular Medicine Symposium by the Bosphorus, İstanbul, Turkey, 16 - 18 May 2019, pp.75

- **A long noncoding RNA repressed by DNA damage mediates cell survival and proliferation**

Baran G., Keskin Toklu N., Tokcaer Keskin Z., Deniz E.

International Molecular Medicine Symposium by the Bosphorus, İstanbul, Turkey, 16 - 18 May 2019, pp.45

- **Genome-wide screening of resistance mechanisms against cytotoxic drugs**

Yılmaz Z. H. , Tokcaer Keskin Z., Keskin Toklu N., Deniz E.

International Molecular Medicine Symposium by the Bosphorus, İstanbul, Turkey, 16 - 18 May 2019, pp.44

- **Investigating the Effects of 5,10-Methylenetetrahydrofolate Reductase C677T Polymorphism on Mesenchymal Stem Cells by Using CRISPR/Cas9 System as a Gene Editing Tool**

Taluğ B., Deniz E., Tokcaer Keskin Z.

International Molecular Medicine Symposium by the Bosphorus, İstanbul, Turkey, 16 - 18 May 2019, pp.74

- **Identification of New Players in DNA Damage Response**

Deniz E.

2nd International Cell Death Research Congress, İzmir, Turkey, 1 - 04 November 2018, pp.29

- **The Role of Long Noncoding RNA DANCR in the DNA Damage Response**

Baran G., Taluğ B., Keskin N., Tokcaer Keskin Z., Erman M. B. , Deniz E.

Fifth International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 8 - 10 September 2017, pp.70

- **Investigating the Effects of 5,10-Methylenetetrahydrofolate Reductase C677T Polymorphism on Mesenchymal Stem Cells by Using CRISPR/Cas9 System as a Gene Editing Tool**

Taluğ B., Deniz E., Tokcaer Keskin Z.

Fifth International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 8 - 10 September 2017, pp.187

- **Correction of KCNQ1 Gene Mutation in Long QT Syndrome Patient-Derived Induced Pluripotent Stem Cells by CRISPR/Cas9 System**

Şahoğlu Göktaş S., Örs G., Torun T., Durdu Z. B. , Görgülü G. İ. , Kazcı Y. E. , Deniz E., Erman M. B. , Tuzcu V.

Fifth International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 7 - 10 September 2017, pp.43

- **Gene Editing in Stem Cells**

Deniz E.

6. Kök Hücre Sempozyumu, İstanbul, Turkey, 5 - 06 May 2017, pp.27

- **Editing of Long Noncoding RNA DANCR Gene Locus Using Genetic Engineering Tools**

Baran G., Taluğ B., Keskin N., Keskin Z. T. , Erman B., DENİZ E.

21st National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 24 November - 26 December 2017

- **The Role of PATZ1 Transcription Factor in the DNA Damage Response**

Deniz E., Keskin N., Atalay R., Erşahin T., Erman M. B.

Fourth International Congress of the Molecular Biology Association of Turkey, Ankara, Turkey, 27 - 29 November 2015, pp.125

- **GABPβ2 inhibitory effect on IL7R expression**

Shamloo B., Atasever Arslan B., Deniz E., Behmoiras L., Erman M. B.

4th European Congress of Immunology, Vienna, Austria, 6 - 09 September 2015, pp.240

- **Identification and characterization of small molecule inhibitors targeting DNA polymerase gamma for the treatment of cancers deficient in mismatch repair**

Pamukcu C., Keskin N., Aydin D., Gulser I. E. , Deniz E., Erman M. B. , Erman B., Uren A., Yakicier C., Muftuoglu M.

40th Congress of the Federation-of-European-Biochemical-Societies (FEBS) - The Biochemical Basis of Life, Berlin, Germany, 4 - 09 July 2015, vol.282, pp.270-271

- **Identification of PATZ1 Transcription Factor as a Novel Interacting Partner and Regulator of the p53 Tumor Suppressor Protein**

Keskin N., Deniz E., Ün M., Eryılmaz J., Erman M. B.

Third International Congress of the Molecular Biology Association of Turkey, İzmir, Turkey, 10 - 12 September 2014, pp.155

- **The Role of PATZ1 Transcription Factor in the DNA Damage Response**

Deniz E., Keskin N., Atalay R., Erşahin T., Sakaguchi S., Ellmeier W., Erman M. B.

Third International Congress of the Molecular Biology Association of Turkey, İzmir, Turkey, 10 - 12 September 2014, pp.152

- **The Tumor Suppressor p53 Functionally Interacts With PATZ1**

Keskin N., Deniz E., Ün M., Eryılmaz J., Erman M. B.

16th International p53 Workshop, Stockholm, Sweden, 15 - 19 June 2014, pp.191

- **The BTB-ZF Transcription Factor PATZ1 Functionally Interacts with p53**

Deniz E., Keskin N., Sakaguchi S., Ellmeier W., Erman M. B.

16th International p53 Workshop, Stockholm, Sweden, 15 - 19 June 2014, pp.137

- **Patz1 is a DNA Damage Responsive Alternatively Spliced Heterodimeric Transcription Factor that Inhibits p53 Function**

Keskin N., Deniz E., Erşahin T., Sakaguchi S., Ellmeier W., Atalay R., Erman M. B.

16th International p53 Workshop, Stockholm, Sweden, 15 - 19 June 2014, pp.144

- **The Tumor Suppressor p53 Interacts With PATZ1 Expressed During T Cell Development**

Keskin N., Deniz E., Ün M., Eryılmaz J., Erman M. B.

Second International Molecular Immunology & Immunogenetics Congress (MIMIC-II), Antalya, Turkey, 27 - 30 April 2014, pp.50

- **CD4 versus CD8 T Cell Lineage Fate Determinant PATZ1 Functionally Interacts with p53**

Deniz E., Keskin N., Ün M., Eryılmaz J., Sakaguchi S., Ellmeier W., Erman M. B.

Second International Molecular Immunology & Immunogenetics Congress (MIMIC-II), Antalya, Turkey, 27 - 30 April 2014, pp.53

- **CD4 vs CD8 T Cell Lineage Fate Determinant PATZ1 Functionally Interacts with p53**

Deniz E., Keskin N., Ün M., Eryılmaz J., Sakaguchi S., Ellmeier W., Erman M. B.

Second International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 22 - 23 November 2013, pp.94

- **CD4 vs CD8 T Cell Lineage Fate Determinant PATZ1 Functionally Interacts with p53**

Deniz E., Keskin N., Ün M., Eryılmaz J., Sakaguchi S., Ellmeier W., Erman M. B.

22. Ulusal Immunoloji Kongresi, İzmir, Turkey, 27 - 30 April 2013, pp.132

- **Role of PATZ1/MAZR in the Regulation of p53-Mediated DNA Damage Response during T-Cell Development**

Deniz E., Ün M., Eryılmaz J., Erman M. B.

First International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 23 - 24 November 2012, pp.1

- **Role of PATZ1/MAZR in the Regulation of p53-Mediated DNA Damage Response during T-Cell Development**

Deniz E., Ün M., Eryılmaz J., Belkaya S., Erman M. B.

FASEB Science Research Conference Genome Engineering - Research & Applications, Lucca, Italy, 2 - 07 September 2012, pp.1

- **The BTB-ZF Transcription Factor MAZR Functionally Interacts with p53**

Deniz E., Ün M., Eryılmaz J., Erman M. B.

EMBO Young Scientists' Forum, İstanbul, Turkey, 14 - 16 June 2012, pp.1

- **Regulation of IL-7R α Gene Expression in T Lymphocytes**

Deniz E., Erman M. B.

FEBS-EFIS Infection and Inflammation, Vienna, Austria, 28 September - 01 October 2010, pp.16

Supported Projects

Baloğlu E., Kılınc E., Timuçin E., Durer Z. A. , Deniz E., TUBITAK Project, İskemik Kalp Hastalığı Modelinde Na⁺/K⁺-ATPaz Pompası ile Etkileşen Proteinlerin Saptanması, 2020 - 2023

Deniz E., Tokcaer Keskin Z., Yakicier M. C. , Erman M. B. , TUBITAK Project, Genome-Wide Screening With CRISPR/Cas9 and Modelling of Resistance Mechanisms Developed Against Cytotoxic Drugs in Cancer Treatment, 2017 - 2019

Deniz E., Project Supported by Higher Education Institutions, Uzun kodlanmayan RNA'ların (LnRNA) DNA Hasarı Yanıtlarındaki Rollerinin Araştırılması, 2017 - 2019

Deniz E., Project Supported by Higher Education Institutions, CRISPR/Cas9 Genom Düzenleme Teknolojisi Kullanarak Gen Delesyonu Gerçekleştirme, 2016 - 2019

Deniz E., Erman M. B. , Karalı N. L. , TUBITAK Project, Özgün 2-indolinon türevi bileşiklerin anti-interlökin 1 ve kemoterapötik etkinlik gösteren ilaçlar olarak geliştirilmesi, 2016 - 2019

Deniz E., Erman M. B. , TUBITAK Project, Glukokortikoidlere bağımlı hücre ölümü ve glukokortikoid direnç (rezistans) mekanizmasının araştırılması, 2014 - 2016

Deniz E., Erman M. B. , TUBITAK Project, T Lenfositlerde p53 Fonksiyonu ve DNA Hasar Yanıtlarında Rol Oynayan Yeni Faktörlerin Tanımlanması, 2012 - 2015

Deniz E., Project Supported by Public Organizations in Other Countries, Regulation of p53 function by the transcription factor PATZ1/MAZR, 2013 - 2013

Scientific Refereeing

TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, Tübitak, Turkey, October 2019

TÜBİTAK International Bilateral Joint Cooperation Program Project, Bosphorus Program with Ministry of Foreign Affairs of France, Tübitak, Turkey, October 2019

TÜBİTAK International Bilateral Joint Cooperation Program Project, Bosphorus Program with Ministry of Foreign Affairs of France, Tübitak, Turkey, October 2019

TUBİTAK Project, 1002 - Quick Support Program, Tübitak, Turkey, September 2019

TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, July 2019

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, June 2019

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, June 2019

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, June 2019

TUBİTAK Project, 1002 - Quick Support Program, Tübitak, Turkey, June 2019

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, June 2019

Project Supported by Higher Education Institutions, BAP Research Project, Zonguldak Bülent Ecevit University, Turkey, March 2019

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, December 2018

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, December 2018

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, December 2018

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, December 2018

TUBİTAK - AB COST Project, Tübitak, Turkey, November 2018

ICGEB Supported Project, Tübitak, Turkey, June 2018

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, December 2017

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, December 2017

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, December 2017

TUBİTAK Project, 3001 - Initial R&D Projects Support Program, Tübitak, Turkey, June 2017

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, May 2017

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, May 2017

TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, May 2017

TUBİTAK Project, 3501 - National Young Researcher Career Development Program, Tübitak, Turkey, May 2017

Citations

Total Citations (WOS):102

h-index (WOS):5

Awards

Deniz E., Best Young Researcher Award, Uluslararası Katılımlı Tıbbi Biyoloji Ve Genetik Kongresi Bilim Kurulu, October 2019