Asst. Prof. ONUR EMRE ONAT

Personal Information

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International Researcher IDs

ScholarID: IvBtFRkAAAAJ
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Publons / Web Of Science ResearcherID: J-8126-2012
ScopusID: 15056549400
Yoksis Researcher ID: 281385

Education Information

Post Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, Turkey 2013 - 2021

Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, Turkey 2006 - 2012

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, Turkey 2004 - 2006

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Department Of Molecular Biology And Genetics, Turkey 1999 - 2004

Certificates, Courses and Trainings

Education Management and Planning, Sağlık Bilimlerinde Orpheus Yaklaşımı ile Doktora Danışmanlık Eğitimi, Acıbadem Mehmet Ali Aydınlar Üniversitesi, 2022

Education Management and Planning, Orpheus (The Organisation for PhD Education in Biomedicine and Health Sciences in the European System) 202, Koç Üniversitesi, 2022

Dissertations

Doctorate, Identification of ATP8A2 gene mutation in a consanguineous family segregating cerebellar atrophy and quadrupedal gait, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, 2012

Postgraduate, In silico identification of candidate MECP2 targets and quantitative analysis in Rett syndrome, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, 2006

Research Areas

Medical Biology, Endocrinology and Metabolic Diseases, Neurology, Medical Genetics, Bioinformatics, Biological Information, Genetic Disorders, Genomics, Animal Molecular Genetics, Protein Engineering, Cytogenetic, Neuroethology, Epidemiology, Population Genetics

Academic Titles / Tasks

Assistant Professor, Acibadem Mehmet Ali Aydinlar University, Graduate School Of Health Sciences, Department Of Genomic Studies, 2021 - Continues
Lecturer PhD, Ihsan Dogramaci Bilkent University, Faculty Of Scıence, Department Of Molecular Bıology And Genetıcs, 2018 - 2021
Researcher, Ihsan Dogramaci Bilkent University, Faculty Of Scıence, Department Of Molecular Bıology And Genetıcs, 2013 - 2021

Academic and Administrative Experience

Program Koordinatörü, Acibadem Mehmet Ali Aydinlar University, Graduate School Of Health Sciences, Department Of Genomic Studies, 2021 - Continues

Courses

Seminar, Postgraduate, 2021 - 2022
Presentation and Research with a Mentor, Postgraduate, 2021 - 2022
Genomic Medicine, Postgraduate, 2021 - 2022
Basic Genom Analysis Tools, Postgraduate, 2021 - 2022
Basic Genetics, Postgraduate, 2021 - 2022
Molecular and Cellular Medicine - I, Undergraduate, 2021 - 2022

Advising Theses

Tokcaer Keskin Z., Onat O. E., Establishment of an Organoid Culture Model Suitable for Drug Screening with Cerebrospinal Fluid Tumor Cells After Lung Cancer Metastasis, Postgraduate, İ.Çongur(Student), Continues
Onat O. E., Common and Rare Variant Association Approaches in Turkish Families with Polycystic Ovarian Syndrome, Postgraduate, E.Öz(Student), Continues
Onat O. E., Identification and Characterization of CDNF in an Early- Onset Neurodegeneration, Postgraduate, A.Şehriban(Student), Continues
Onat O. E., Common and rare variant association approaches in Turkish families with obesity, Postgraduate, F.Nisa(Student), Continues
Tokcaer Keskin Z., Onat O. E., Establishment of an Organoid Culture Model Suitable for Drug Screening with Cerebrospinal Fluid Tumor Cells After Breast Cancer Metastasis, Postgraduate, E.Köni(Student), Continues
Onat O. E., Identification of Evolutionary Patterns in Core Clock Proteins and Their Involvement in Sleep Disorders, Postgraduate, A.Akkuş(Student), Continues

Jury Memberships

Committee Of Expert, Committee Of Expert, Acıbadem Mehmet Ali Aydınlar Üniversitesi, April, 2022
Award, TÜBİTAK BiGG SPOR ÖDÜLLERİ, TÜBİTAK - TEYDEP, December, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Meta-analysis of commonly mutated genes in leptomeningeal carcinomatosis**
Congur I., Koni E., Onat O. E., Keskin Z.

PeerJ, vol.11, 2023 (SCI-Expanded)

II. **The genetic structure of the Turkish population reveals high levels of variation and admixture**
Kars M. E., Basak A. N., Onat O. E., Bilguvar K., Choi J., Itan Y., Caglar C., Palvadeau R., Casanova J., Cooper D. N., et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.118, no.36, 2021 (SCI-Expanded)

III. **Multiscale analysis of SRY-positive 46,XX testicular disorder of sex development: Presentation of nine cases**
Akar O. S., Gunes S., Abur U., Altundag E., Asci R., Onat O. E., Ozcelik T., Ogur G.
ANDROLOGIA, vol.52, no.11, 2020 (SCI-Expanded)

IV. **Human CRY1 variants associate with attention deficit/hyperactivity disorder**
Onat O. E., Kars M. E., GÜL Ş., Bilguvar K., Wu Y., Ozhan A., Aydin C., Basak A. N., Trusso M. A., Goracci A., et al.
JOURNAL OF CLINICAL INVESTIGATION, vol.130, no.7, pp.3885-3900, 2020 (SCI-Expanded)

V. **Abnormal subcortical activity in congenital mirror movement disorder with RAD51 mutation**
Demirayak P., Onat O. E., Gevrekci A. O., Gulsuner S., UYSAL H., Bilgen R., Doerschner K., Ozcelik T., Boyaci H.
DIAGNOSTIC AND INTERVENTIONAL RADIOLOGY, vol.24, no.6, pp.392-401, 2018 (SCI-Expanded)

VI. **Mutation of the Human Circadian Clock Gene CRY1 in Familial Delayed Sleep Phase Disorder**
Patke A., Murphy P. J., Onat O. E., Krieger A. C., Ozcelik T., Campbell S. S., Young M. W.
CELL, vol.169, no.2, pp.203-215, 2017 (SCI-Expanded)

VII. **Genomic landscape of the Greater Middle East**
Ozcelik T., Onat O. E.
NATURE GENETICS, vol.48, no.9, pp.978-979, 2016 (SCI-Expanded)

VIII. **Evaluation of X Chromosome Inactivation with Respect to HLA Genetic Susceptibility in Rheumatoid Arthritis and Systemic Sclerosis**
Kanaan S. B., Onat O. E., Balandraud N., Martin G. V., Nelson J. L., Azzouz D. F., Auger I., Arnoux F., Martin M., Roudier J., et al.
PLOS ONE, vol.11, no.6, 2016 (SCI-Expanded)

IX. **Reply to Tzoulis et al.: Genetic and clinical heterogeneity of essential tremor**
Gulsuner H. U., Gulsuner S., Mercan F. N., Onat O. E., Walsh T., Shahin H., Lee M. K., Dogu O., Kansu T., Topaloglu H., et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.112, no.18, 2015 (SCI-Expanded)

X. **Mitochondrial serine protease HTRA2 p.G399S in a kindred with essential tremor and Parkinson disease**
Gulsuner H. U., Gulsuner S., Mercan F. N., Onat O. E., Walsh T., Shahin H., Lee M. K., Dogu O., Kansu T., Topaloglu H., et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.111, no.51, pp.18285-18290, 2014 (SCI-Expanded)

XI. **Early postzygotic mutations contribute to de novo variation in a healthy monozygotic twin pair**
Dal G. M., Erguner B., Sagiroglu M. S., Yuksel B., Onat O. E., Alkan C., Ozcelik T.
JOURNAL OF MEDICAL GENETICS, vol.51, no.7, pp.455-459, 2014 (SCI-Expanded)

XII. **Disruption of HDX gene in premature ovarian failure**
Okten G., Gunes S., Onat O. E., Tukun A., Ozcelik T., Kocak I.
SYSTEMS BIOLOGY IN REPRODUCTIVE MEDICINE, vol.59, no.4, pp.218-222, 2013 (SCI-Expanded)

XIII. **Missense mutation in the ATPase, aminophospholipid transporter protein ATP8A2 is associated with cerebellar atrophy and quadrupedal locomotion**
Onat O. E., Gulsuner S., Bilguvar K., Basak A. N., Topaloglu H., Tan M., Tan U., Gunel M., Ozcelik T.
EUROPEAN JOURNAL OF HUMAN GENETICS, vol.21, no.3, pp.281-285, 2013 (SCI-Expanded)

XIV. **Two Males with SRY-Positive 46,XX Testicular Disorder of Sex Development**
Gunes S., Asci R., Okten G., Atac F., Onat O. E., Ogur G., Aydin O., Ozcelik T., Bagci H.
SYSTEMS BIOLOGY IN REPRODUCTIVE MEDICINE, vol.59, no.1, pp.42-47, 2013 (SCI-Expanded)

XV. **Homozygosity mapping and targeted genomic sequencing reveal the gene responsible for cerebellar**

hypoplasia and quadrupedal locomotion in a consanguineous kindred
Gulsuner S., Tekinay A. B., Doerschner K., Boyaci H., Bilguvar K., Unal H., Ors A., Onat O. E., Atalar E., Basak A. N., et al.
GENOME RESEARCH, vol.21, no.12, pp.1995-2003, 2011 (SCI-Expanded)

XVI. **Mutations in the very low-density lipoprotein receptor VLDLR cause cerebellar hypoplasia and quadrupedal locomotion in humans**
Ozcelik T., AKARSU A. N., Uz E., Caglayan S., Gulsuner S., Onat O. E., Tan M., Tan U.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.105, no.11, pp.4232-4236, 2008 (SCI-Expanded)

XVII. **MDM2 T309G polymorphism is associated with bladder cancer**
Onat O. E., Tez M., Ozcelik T., Toruner G. A.
ANTICANCER RESEARCH, vol.26, pp.3473-3475, 2006 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Identification of evolutionary patterns in core clock proteins and their involvement in sleep disorders**
Akkuş A., ONAT O. E.
The 8th International Congress of the Molecular Biology Association of Turke, İstanbul, Turkey, 09 June 2022

II. **Patients with Essential Tremor Live Longer than their Relatives**
Akbostanci C., Doganyigit K., Sen M., Onat E., Tekinay A., Ozcelik T., Akbostanci M.
21st International Congress of Parkinson's Disease and Movement Disorders, Vancouver, Canada, 4 - 08 June 2017, vol.32, no.754

III. **Tanı konulmamış hastalarda yeni nesil dizileme ile tanı projeleri**
ONAT O. E., ÖZÇELİK H. T.
13. ULUSAL SİNİRBİLİM KONGRESİ, Konya, Turkey, 30 April 2015

IV. **DOES TELOMERE SHORTENING IN WOMEN IWTH REHEUMATOID ARTHRITIS PREDICT X CHROMOSOME INACTIVATION BIAS?**
Kanaan S. B., Onat O. E., Balandraud N., Azzouz D. F., Roudier J., Ozcelik T., Lambert N. C.
33rd European Workshop for Rheumatology Research (EWRR), Prague, Czech Republic, 28 February - 02 March 2013, vol.72

V. **Identification of a novel missense mutation in RAD51 in a large family with congenital mirror movements**
ONAT O. E., GÜLSÜNER S. İ., BİLGEN AKDENİZ H. R., KILINÇ G. M., Bilguvar K., BOYACI H., DÖRSCHNER K., UYSAL H., Günel M., ÖZÇELİK H. T.
62nd Annual Meeting of the American Society of Human Genetics, ASHG 2012, San-Francisco, Costa Rica, 06 November 2012

VI. **SKEWED X CHROMOSOME INACTIVATION IN RHEUMATOID ARTHRITIS WOMEN**
Azzouz D. F., Onat O. E., Balandraud N., Kanaan S. B., Roudier J., Ozcelik T., Lambert N. C.
31st European Workshop for Rheumatology Research, Amsterdam, Netherlands, 3 - 06 March 2011, vol.70

VII. **X-inactivation silencing is not maintained on the autosomal segment of an inherited unbalanced X;19 translocation in a male**
ONAT O. E., Balcı S., Engiz O., Liehr T., ÖZÇELİK H. T.
EUROPEAN HUMAN GENETICS CONFERENCE 2010, Gothenburg, Sweden, 12 June 2010, vol.18, pp.130-131

VIII. **VLDLR (very low density lipoprotein receptor) is the first gene implicated in cerebellar hypoplasia and quadrupedal locomotion in humans**
ÖZÇELİK H. T., AKARSU A. N., UZ YILDIRIM E., Çağlayan Ş., GÜLSÜNER S. İ., ONAT O. E., TAN M., TAN Ü.
EUROPEAN HUMAN GENETICS CONFERENCE 2008, Barcelona, Spain, 31 May 2008, vol.16, pp.26

IX. **Tolerans kirilmasiyla ilişkili X'e bağli aday genlerin immünepitoplarinin biyobilişimsel incelemesi**
ONAT O. E., KOCATÜRK B., ÖZÇELİK H. T.

VIII. Ulusal Tıbbi Genetik Kongresi, Çanakkale, Turkey, 06 May 2008

X. **Yüksek çözünürlüklü genom incelemesi ile belirlenen otoimmün tiroid hastalıkları risk genler**
GÜLSÜNER S. İ., UZ YILDIRIM E., Mustafa C., ONAT O. E., Erikçi M., GÜLLÜ S., ÖZÇELİK H. T.
VIII. Ulusal Tıbbi Genetik Kongresi, Çanakkale, Turkey, 06 May 2008

XI. **MDM2 T309G polymorphism is associated with bladder cancer**
Onat O. E., Tez M., Ozcelik T., Toruner G. A.
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.225-226

XII. **MDM2 T309G polymorphism is associated with bladder cancer**
ONAT O. E., TEZ M., ÖZÇELİK H. T., Törüner G. A.
EUROPEAN HUMAN GENETICS CONFERENCE 2006, Amsterdam, Netherlands, 06 May 2006, vol.14, pp.207

XIII. **Rett sendromu patogenezinde X-kromozomu etkinsizleştirilmesinin rolü**
ONAT O. E., UZ YILDIRIM E., İskar M., ATALAY R., TOPÇU M., ÖZÇELİK H. T.
7. Prenatal Tanı ve Tıbbi Genetik Kongresi, Kayseri, Turkey, 17 May 2006

XIV. **Fransız skleroderma hastalarında X-inaktivasyonu bozukluğu**
ONAT O. E., Rak J. M., Balandraud N., Martin M., Mustafa C., Lambert N. C., ÖZÇELİK H. T.
VIII.Ulusal Tıbbi Genetik Kongresi, Çanakkale, Turkey, 06 May 2006

XV. **Quantitative analysis of candidate genes subject to XCI in Rett Syndrome**
ONAT O. E., UZ YILDIRIM E., TOPÇU M., ÖZÇELİK H. T.
6. ICGEB Konferansı, Antalya, Turkey, 26 March 2006

Supported Projects

Friedman J., Özçelik T., Universities of Other Countries Supported Project, The genetics of PCOS (PolyCystic Ovarian Syndrome) in Turkish Families: Identification of causal gene mutations in PCOS, 2016 - 2021

Özçelik T., Friedman J., Universities of Other Countries Supported Project, The Genetics of Obesity in Turkish Families: Identification of causal gene mutations in obesity, 2013 - 2021

Özçelik T., TUBITAK Project, X-KROMOZOMU İNAKTİVASYONU VE OTİMMÜNİTE İLİŞKİSİNİN ARAŞTIRILMASI, 2006 - 2009

Memberships / Tasks in Scientific Organizations

American Society of Human Genetics, Member, 2011 - Continues, United States Of America
Tıbbi Genetik Derneği, Member, 2008 - Continues, Turkey
European Society of Human Genetics, Member, 2008 - Continues, Austria

Scientific Refereeing

FRONTIERS IN PHARMACOLOGY, Journal Indexed in SCI-E, February 2022

TUBITAK Project, 1002 - Quick Support Program, T.C. Sağlık Bakanlığı Prof. Dr. Cemil Taşcıoğlu Şehir Hastanesi, Turkey, July 2021

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ,

Turkey, March 2021
TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021
TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021
TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021
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TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021
TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, March 2021
HUMAN GENETICS, SCI Journal, August 2019
NOROPSIKIYATRI ARSIVI-ARCHIVES OF NEUROPSYCHIATRY, Journal Indexed in SCI-E, February 2019

Scientific Consultations

Eka Biolab Technology, Scientific Consultancy, Acibadem Mehmet Ali Aydinlar University, Graduate School Of Health Sciences, Department Of Genomic Studies, Turkey, 2022 - Continues

Tasks In Event Organizations

Onat O. E., 8th International Congress of the Molecular Biology Association of Turkey, Scientific Congress, Turkey, Haziran 2022
Onat O. E., 5th International Symposium on Bioinformatics, Scientific Congress, İstanbul, Turkey, Aralık 2021

Scientific Research / Working Group Memberships

Nadir Hastalıklar Ve Yetim İlaçlar Uygulama Ve Araştırma Merkezi-Acurare, Acibadem Mehmet Ali Aydinlar University, Türkiye, https://www.acibadem.edu.tr/rare, 2021 - Continues

Metrics

Publication: 32
Citation (WoS): 602
Citation (Scopus): 643
H-Index (WoS): 11
H-Index (Scopus): 10

Congress and Symposium Activities

5th International Symposium on Bioinformatics, Panelists, İstanbul, Turkey, 2021