Asst. Prof. ONUR EMRE ONAT

Personal Information

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Education Information

Post Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Scıence, Department Of Molecular Bıology And Genetıcs, Turkey 2013 - 2021
Doctorate, Ihsan Dogramaci Bilkent University, Institute Of Engıneerıng And Natural Scıences, Molecular Biology and Genetics, Turkey 2006 - 2013
Post Graduate, Ihsan Dogramaci Bilkent University, Institute Of Engıneerıng And Natural Scıences, Molecular Biology and Genetics, Turkey 2004 - 2006
Under Graduate, Bogazici University, Faculty Of Arts And Scıences, Department Of Molecular Bıology And Genetıcs, Turkey 1999 - 2004

Dissertations

Doctorate, Identification of ATP8A2 gene mutation in a consanguineous family segregating cerebellar atrophy and quadrupedal gait, Ihsan Dogramaci Bilkent University, Institute Of Engıneerıng And Natural Scıences, Molecular Biology and Genetics, 2012
Post Graduate, In silico identification of candidate MECP2 targets and quantitative analysis in Rett syndrome, Ihsan Dogramaci Bilkent University, Institute Of Engıneerıng And Natural Scıences, Molecular Biology ve Genetics, 2006

Research Areas

Medical Biology, Bioinformatics, Molecular Biology and Genetics, Genetic Disorders, Genetic Engineering, Genomics, Cytogenetic, Biopsychology, Population Genetics

Academic Titles / Tasks

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

Courses

Introduction to Modern Biology, Under Graduate, 2018 - 2019, 2019 - 2020, 2020 - 2021
Genomics, Under Graduate, 2019 - 2020

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

I. **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 (Journal Indexed in SCI)

II. **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 (Journal Indexed in SCI)

III. **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 (Journal Indexed in SCI)

IV. **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 (Journal Indexed in SCI)

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

VI. **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 (Journal Indexed in SCI)

VII. **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 (Journal Indexed in SCI)

VIII. **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 (Journal Indexed in SCI)

IX. **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 (Journal Indexed in SCI)

X. **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 (Journal Indexed in SCI)

XI. **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 (Journal Indexed in SCI)

XII. **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 (Journal Indexed in SCI)

XIII. **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 (Journal Indexed in SCI)

XIV. **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 (Journal Indexed in SCI)

XV. **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 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

I. **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

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

III. **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

IV. **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

V. **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

VI. **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

VII. **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

VIII. **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

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. **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

XI. **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

XII. **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

XIII. **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

XIV. **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 OTİİMMÜNİTE İLİŞKİSİNİN ARAŞTIRILMASI, 2006 - 2009

Scientific Refereeing

Turkey Institutes of Health Administration Project, Sivas Cumhuriyet University, Turkey, December 2019
Turkey Institutes of Health Administration Project, SEVEN BRIDGES GENOMICS BİYOTEKNOLOJİ ANONİM ŞİRKETİ, Turkey, December 2019
Turkey Institutes of Health Administration Project, Mugla Sitki Kocman University, Turkey, December 2019
Turkey Institutes of Health Administration Project, Sakarya University, Turkey, December 2019
Turkey Institutes of Health Administration Project, Istanbul Medipol University, Turkey, December 2019
Turkey Institutes of Health Administration Project, Selcuk University, Turkey, December 2019
Turkey Institutes of Health Administration Project, GENOMİZE BİLİŞİM ve BİYOTEKNOLOJİ A.Ş., Turkey, November 2019
journal of pediatric genetics, Other Indexed Journal, August 2019
TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, AIVISIONTECH ELEKTRONİK YAZILIM LİMİTED ŞİRKETİ (ANKARA), Turkey, July 2019
NÖROPSİKİYATRİ ARŞİVİ, National Scientific Refreed Journal, January 2019
TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Ankara University, Turkey, January 2018
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, MULTİGEN SAĞLIK HİZMETLERİ TİCARET LİMİTED ŞİRKETİ (İZMİR), Turkey, May 2017
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, GGT GLOBAL GENETİK TEKN.VE SAĞ.LTD.ŞTİ. (İSTANBUL), Turkey, May 2017

Citations

Total Citations (WOS):482
h-index (WOS):10

Scholarships

Rockefeller University Center for Clinical and Translational Science (RUCCTS) Grant Award Number 8 UL1 TR000043, University, 2013 - 2021
Institute of Engineering and Science, Ph.D. program full-fellowship, University, 2006 - 2012
Conference fellowship (42nd European Human Genetics Conference), Other International Organizations, 2010 - 2010
TUBITAK-SBAG-3334, TUBITAK, 2006 - 2009
Conference fellowship for 38nd European Human Genetics Conference, Other International Organizations, 2006 - 2006
Institute of Engineering and Science, M.Sc. program full-fellowship, University, 2004 - 2006