



CURRICULUM VITAE

Name and Surname: SERAP TUTGUN ONRAT
Academic Title: Professor Dr.
Work Address:
Email: serap.onrat@afsu.edu.tr
Foreign Languages Known (Score and Year): English, B2 Upper Intermediate, 2007
Area of Expertise: Health Sciences

Degree	Department/Program	University	Year
Doctorate	BİYOLOJİ (DR)	Eskişehir Osmangazi University	2001
Master's Degree	TIBBİ GENETİK (YL) (TEZLİ)	Eskişehir Osmangazi University	1996
Bachelor's Degree	BİYOLOJİ BÖLÜMÜ	Hacettepe University	1994

Master's Thesis Title (abstract attached) and Thesis Supervisor(s):

Kadın ve erkeklerde yaşlanmayla birlikte artan mikronükleus oranının saptanması

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Yaşlanma ile birlikte DNA'da artış gösteren Metilasyon değişimlerinin biyoteknolojik ve sitogenetik yöntemlerle araştırılması

Position Title	Workplace	Year
Professor Dr.	Afyonkarahisar Health Sciences University	2023-Continues
Associate Professor	Afyonkarahisar Health Sciences University	2018-Continues
Assistant Professor	Afyon Kocatepe University	2008-2018
Assistant Professor	Afyon Kocatepe University	2003-2008
Lecturer	Afyon Kocatepe University	2001-2003
Research Assistant	Afyon Kocatepe University	1999-2001

Roles in Projects:

- 1. Trigeminal Nevralji Hastalarında Schwan Hücrelerini Etkileyen miRNA'ların İncelenmesi*, Project Supported by Higher Education Institutions, Tutgun Onrat S. (Executive), 2025-Continues.
- 2. İdiyopatik Trigeminal Nevralji Hastalarında İnflamasyon ve Apoptozis ile ilişkili miRNA'ların incelenmesi*, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2025-Continues.
- 3. "KORONER ARTER EKTAZİ GELİŞİMİNDE MICRORNA'LARIN (MIR 24, MIR 34, MIR 126, MIR 143, MIR 145) ETKİSİNİN BELİRLENMESİ*, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2021-2022.

4. "TAKOTSUBO KARDİYOMİYOPATİSİ EKSONLARINDA, B-ADRENERJİK SİNYAL YOLLARINDAKİ GENETİK VARYASYONLARIN, UYGUN İLAÇ ÜRETİMİ İÇİN KARAKTERİZE EDİLMESİ", Project Supported by Higher Education Institutions, Tutgun Onrat S. (Executive), 2020-2021.
5. KAROTİS ARTER HASTALIKLARINDA TROMBOFİLİK GEN MUTASYON ANALİZİ, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2016-2018.
6. İDİYOPATİK DİLATE KARDİYOMİYOPATİ ve İSKEMİK DİLATE KARDİYOMİYOPATİLERİN AYRIMININ GENETİK OLARAK BELİRLENMESİ PROJE NO 114S885, TUBITAK Project, Tutgun Onrat S., 2014-2016.
7. Koroner Arter Ektazilerinde Trombofilik Gen Mutasyon Analizi, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2015-2016.
8. Periferik Arter Hastalıklarının Oluşumunda Diyabetes Mellitusun ve Genetik Polimorfizm Etkisinin Belirlenmesi, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2014-2015.
9. Miyokard Enfaktüsü MI Geçirmiş Olan 45 Yaş Altı ve 45 Yaş Üstü Koroner Kalp Hastalarında CVD Strip Testi ile 12 Mutasyon Taraması FV R506Q Leiden FV H1299R R2 Protrombin G20210A Faktor XIII V34L β Fibrinojen 455 G A PAI 1 4G 5G GPIIIa L33P HPA 1 MTHFR C677T MTHFR A1298C ACE I D Apo B R3500Q Apo E2 E3 E4 08 TIP 11, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2008-2010.
10. Kemik Mineral Dansitesi ile COL1A1 CTR VDRF VDRB ESR1X ve ESR1P Gen Polimorfizmlerinin İncelenmesi 08 TIP 20, Project Supported by Higher Education Institutions, Tutgun Onrat S. (Executive), 2008-2009.
11. Kolon Kanseri Tanılı Olgularda MLPA Yöntemi ile MMR Genlerinin Metilasyon Sıklığının İncelenmesi 07 FENED 12, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2007-2009.
12. Nonilfenolün Bıdırıncılarda Histopatolojik ve Moleküler Düzeydeki Etkileri 042 VF 02, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2004-2007.
13. Afyonkarahisar İli Su Akarlarının Acari Hydrachnellae Sistematik Ekolojik ve Mikrobiyolojik Yönden İncelenmesi 031 FENED 06, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2004-2006.
14. Afyon İli ve Çevre İlçelerdeki Kolon Kanseri Tanılı Olgularda APC Mutasyonunun Saptanması 04 FENED03, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2002-2005.
15. Hipertansiyonun Yaşlanma ve Telomer Kaybı ile İlişkinin FISH yöntemi Kullanılarak Saptanması 02 FENED 06, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2002-2005.
16. Yaşlanmayla Birlikte Artış Gösteren DNA daki Metilasyon Değişimlerinin Biyoteknolojik ve Sitogenetik Yöntemlerle Araştırılması Osmangazi Üniversitesi Rektörlük Araştırma Fonu Projesi Proje No 199819019 Eskişehir Yardımcı Araştırmacı, Project Supported by Higher Education Institutions, Tutgun Onrat S., 2000-2001.

Administrative Duties:

1. Other - (2015 - Continues)
 2. Deputy Institute Director - Afyon Kocatepe University (2004 - 2006)
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PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. Yalım Z., Tutgun Onrat S., Dural I. E., Onrat E., "Could Aneurysm and Atherosclerosis-Associated MicroRNAs (miR 24-1-5p, miR 34a-5p, miR 126-5p, miR 143-5p, miR 145-5p) Also Be Associated with Coronary Artery Ectasia?", *Genetic Testing and Molecular Biomarkers*, vol. 27, no. 9, pp. 290-298, 2023.
- A2. Tutgun Onrat S., Dural İ. E., Yalım Z., Onrat E., "Correction to: Investigating changes in β-adrenergic gene expression (ADRB1 and ADRB2) in Takotsubo (stress) cardiomyopathy syndrome; a pilot study (Molecular Biology Reports, (2021), 48, 12, (7893-7900), 10.1007/s11033-021-06816-w)", *Molecular Biology Reports*, vol. 49, no. 4, pp. 3373-3375, 2022.
- A3. Tutgun Onrat S., Doğan N., "Evaluation of Congenital and Chromosomal Anomalies Mortality in Turkey by Joinpoint Regression Analysis", *Global Journal of Epidemiology and Public Health*, vol. 6, pp. 51-57, 2021.
- A4. Tutgun Onrat S., Dural İ. E., Yalım Z., Onrat E., "Investigating changes in β-adrenergic gene expression (ADRB1 and ADRB2) in Takotsubo (stress) cardiomyopathy syndrome; a pilot study", *Molecular Biology Reports*, vol. 48, no. 12, pp. 7893-7900, 2021.

- A5.** Aydın S., Dumanlı A., Tutgun Onrat S., Öz G., Balcı A., Gencer A., Kılıçgün H. A., "A Novel PTCH1 Frameshift Mutation Leading to First Case of Gorlin-Goltz Syndrome with Bilateral Pneumothorax", *Archives of Clinical and Biomedical Research*, vol. 5, no. 6, pp. 914-920, 2021.
- A6.** Tutgun Onrat S., "TUTGUN ONRAT SERAP, DOĞAN NURHAN (2021). Evaluation of Congenital and Chromosomal Anomalies Mortality in Turkey by Joinpoint Regression Analysis. *Global Journal of Epidemiology and Public Health*, 6, 51- 57., Doi: 10.12974/2313-0946.2021.06.01.4", *Global Journal of Epidemiology and Public Health*, vol. 6, pp. 51-57, 2021.
- A7.** Tutgun Onrat S., Elmas M., Demirbaş H., "An interesting case: 30-year-old male patient with myotonic dystrophy type I has got normal CTG repeats sequence in the DMPK gene, but it does not comply with its clinical features", *EUROPEAN JOURNAL OF HUMAN GENETICS*, vol. 28, no. 1, pp. 900-901, 2020.
- A8.** Yalım Z., Tutgun Onrat S., Emren S. V., Dural I. E., Avsar A., Onrat E., "Analysis of thrombophilic gene mutations in coronary artery ectasia Koroner arter ektazisinde trombofilik gen mutasyon analizi", *Türk Kardiyoloji Dernegi Arsivi*, vol. 48, no. 4, pp. 368-373, 2020.
- A9.** Tutgun Onrat S., Onrat E., Ercan Onay E., Yalım Z., Avşar A., "The genetic determination of the differentiation between ischemic dilated cardiomyopathy and idiopathic dilated cardiomyopathy", *Genetic Testing and Molecular Biomarkers*, vol. 22, no. 11, pp. 644-651, 2018.
- A10.** Tutgun Onrat S., Akci Ö., Söylemez Z., Onrat E., Avşar A., "Prevalence of myocardial infarction polymorphisms in Afyonkarahisar, Western Turkey", *Molecular Biology Reports*, vol. 39, no. 9, pp. 9257-9264, 2012.
- A11.** Elmas M., Tutgun Onrat S., Söylemez Z., "46,XX, der(15),t(Y;15)(q12;p11) karyotype in an azoospermic male", *Indian Journal of Human Genetics*, vol. 18, no. 2, pp. 241-245, 2012.
- A12.** Özbaş H., Tutgun Onrat S., Özdamar K., "Genetic and environmental factors in human osteoporosis.", *Molecular biology reports*, vol. 39, no. 12, pp. 11289-11296, 2012.
- A13.** Tutgun Onrat S., Çeken I., Ellidokuz E., Kupelioğlu A., "Alterations of copy number of methylation pattern in mismatch repair genes by methylation specific-multiplex ligation-dependent probe amplification in cases of colon cancer", *Balkan Journal of Medical Genetics*, vol. 14, no. 2, pp. 25-33, 2011.
- A14.** Tutgun Onrat S., Emmiler M., Sivaci Y., Söylemez Z., Özgöz A., Imirzalioglu N., "A patient with ascending aortic dilatation, similar to phenotypes of connective tissue disorders", *Genetics and Molecular Research*, vol. 8, no. 2, pp. 426-434, 2009.
- A15.** Tutgun Onrat S., Seyman H., Konuk M., "Incidence of neural tube defects in Afyonkarahisar, Western Turkey", *Genetics and Molecular Research*, vol. 8, no. 1, pp. 154-161, 2009.
- A16.** Tutgun Onrat S., Tomatir A., "Fluorescence in situ hybridization analysis with subtelomere specific probes (12pter-15qter) showed no differences in deletion patterns between normotensive and essential hypertension.", *Genetics and molecular research : GMR*, vol. 7, no. 3, pp. 762-771, 2008.
- A17.** Tutgun Onrat S., Aşçı F., Özkan M., "A cytogenetics study of *Hydrodroma despiciens* Müller 1776 Acari *Hydrachnellae Hydrodromidae*", *Genetics and Molecular Research*, vol. 5, no. 2, pp. 342-349, 2006.
- A18.** Onrat E., Tutgun Onrat S., "Comment on the paper by Meuschel-Wehner et al.: Inner ear dysplasia in sporadic lacrimo-auriculo-dento-digital syndrome", *ORL*, vol. 66, no. 1, pp. 51-51, 2004.
- A19.** Onrat E., Tutgun Onrat S., Fierek O., "LADD syndrome with QT prolongation LADD-Syndrom mit QT-verlängerung", *HNO*, vol. 52, no. 2, pp. 174-174, 2004.
- A20.** Onrat E., Kaya D., Tutgun Onrat S., "Lacrimo auriculo dento digital syndrome with QT proglongation", *Acta Cardiologica*, vol. 58, no. 6, pp. 567-570, 2003.

B. Papers presented at international scientific meetings and published in proceedings:

- B1.** Onrat E., Barlak S., Tutgun Onrat S., Doğan İ., Demirbaş H., Gökaslan S., Özer Gökaslan Ç., Avşar A., The effect of hereditary thrombophilia on the formation of carotid artery disease: a pilot study, In: *5th Dubrovnik Cardiology Highlights*, Croatia, 2017.

D. Articles published in national peer-reviewed journals:

- D1.** Tutgun Onrat S., "TUTGUN ONRAT SERAP, Keleş Yağmur, Aydın Saliha, Etiler Rana, Aktaş Zeynep (2022). Ten-year experience retrospective in investigation of the frequency of sex chromosome aneuploidies diagnosed in a reference medical center in Türkiye. *International Journal of Community Medicine and Public Health*", *International Journal of Community Medicine and Public Health*, vol. 9, no. 10, pp. 3654-3660, 2022.
- D2.** Tutgun Onrat S., Elmas M., "A Rare De Novo Reciprocal Translocation 46,XX,rec(7;13)(p22;q32) Karyotype", *Asian Journal of Case Reports in Medicine and Health*, vol. 6, no. 2, pp. 19-23, 2021.
- D3.** Tutgun Onrat S., Elmas M., Yildirim Ü. C., Demirbaş H., "Evaluation of ctg repeat numbers, genotype and clinical findings in myotonic dystrophy patients: A single center experience-case series Miyotonik distrofi hastalarının ctg tekrar sayıları ile genotip ve klinik bulguların değerlendirilmesi: Tek merkez deneyimi-olgu serisi", *Türkiye Klinikleri Journal of Medical Sciences*, 2021.
- D4.** Tutgun Onrat S., Elmas M., Avcı K., "A Rare De Novo Robertsonian Translocation 45,XX, rob (13;13) (q10; q10) Karyotype Carrying in a Normal Woman; But Recurrent Abortions", *Biomedical Journal of Scientific & Technical Research*, vol. 36, no. 1, pp. 28129-28132, 2021.

- D5.** Tutgun Onrat S., Elmas M., Sađdıç M., Birekul E., Altınıřık İ., Güzelsabuncu C., Düzençi Ö., Çetinkaya K., "Investigation of Repeat Numbers (CAG, CTG, CGG, GAA, GCC) and Variable Expression of Our Patients with Trinucleotide Repeat Disease in Afyonkarahisar", *Gazi Medical Journal*, vol. 31, no. 3, pp. 81, 2020.
- D6.** Tutgun Onrat S., "ELMAS MUHSİN,TUTGUN ONRAT SERAP,YILDIRIM ÜMİT CAN,DEMİRBAŞ HAYRİ (2020). Evaluation of Genotype and Clinical Findings with CAG Repeat Numbers of Patients with Huntington's Disease: Single Center Experience. *Türkiye Klinikleri Journal of Internal Medicine*, 5(3), 112-119., Doi: 10.5336/intermed.2020-74379", *Türkiye Klinikleri Journal of Internal Medicine*, vol. 5, no. 3, pp. 112-119, 2020.
- D7.** Yalım Z., Tutgun Onrat S., Alan Yalım S., Aldemir M., Avşar A., Dođan İ., Onrat E., "The effects of genetic polymorphisms and Diabetes Mellitus on the development of peripheral arterial disease", *Türk Kardiyoloji Dernegi Arsivi-Archives of the Turkish Society of Cardiology*, vol. 48, no. 5, pp. 484-493, 2020.
- D8.** Barlak S., Onrat E., Tutgun Onrat S., Dođan İ., Demirbař H., Özer Gökaslan Ç., Yalım Z., Avşar A., "Thrombophilic Gene Mutation Analysis of Carotid Artery Disease Western TURKEY", *International Journal of Recent Scientific Research*, vol. 9, no. 12, pp. 29885-29890, 2018.
- D9.** Tutgun Onrat S., "BARLAK SEZGİN,ONRAT ERSEL,TUTGUN ONRAT SERAP,DOĐAN İSMET,DEMİRBAŞ HAYRİ,ÖZER GÖKASLAN ÇİĐDEM,YALIM ZAFER,AVŞAR ALAETTİN (2018). Thrombophilic Gene Mutation Analysis of Carotid Artery Disease Western TURKEY. *International Journal of Recent Scientific Research*, 9(12), 29885-29890.", *International Journal of Recent Scientific Research*, vol. 9, no. 12, pp. 29885-29890, 2018.
- D10.** Tutgun Onrat S., Akci Ö., Söylemez Z., Onrat E., Avşar A., "Plasminogen Activator Inhibitor 1 PAI 1 4G 5G Allele Polymorphisms and NIDDM Non Insulin Dependent Diabetes Mellitus Risk Factor for Early Onset Myocardial Infarction", *International Journal of Cardiovascular Research*, vol. 3, no. 4, pp. 1-5, 2014.
- D11.** Tutgun Onrat S., Sıvacı Y., Onrat E., Köken T., "Umbilical hernia hypertelorism sensorineural deafness may be Donnai Barrow syndrome A case report", *International Journal of Case Reports and Images*, vol. 3, no. 12, pp. 69-72, 2012.
- D12.** Tutgun Onrat S., Ellidokuz E. B., Küpeliöđlu A., Durhan E., "P53 Intronic Variant G13964C Analyses in Cases with Colon Cancer", *Turkish Journal of Cancer*, vol. 39, no. 2, pp. 51-55, 2009.
- D13.** Tutgun Onrat S., Ellidokuz E. B., Küpeliöđlu A., Durhan E., "Frequency of TP53 codon72 polymorphism in cases with colon cancer", *Turkish Journal of Cancer*, vol. 39, no. 1, pp. 5-10, 2009.
- D14.** Tomatır A. G., Tutgun Onrat S., "Biyoteknoloji Genetiđi Deđiřtirilmiř Organizmalar GDO ve Biyogüvenlik BIOTECHNOLOGY GENETICALLY MODIFIED ORGANISMS GMOs BIOSAFETY", *Sendrom Dergisi*, vol. 18, no. 4, pp. 43-56, 2006.
- D15.** Onrat E., Kaya D., Kadir K., Tutgun Onrat S., Çelik A., Kilit C., "Batı Anadolu bölgesindeki doğumsal iřitme engellilerde uzun QT sendromu sıklıđı", *Türk Kardiyoloji Dergisi- Arch Turk Soc Cardiol*, vol. 6, no. 3, pp. 98-102, 2003.