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Education Information

Doctorate, Syracuse University, Health Science Center, Genetik, United States Of America 1991 - 1994

Postgraduate, Syracuse University, Sağlık Bilimleri, Genetik, United States Of America 1988 - 1991

Undergraduate, Medizinische Universitaet Wien, Tıp, Tıp/Temel Tıp Bilimleri Transfer, Austria 1980 - 1987

Foreign Languages

English, C1 Advanced

German, C1 Advanced

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Internal Medicine Sciences, Medical Genetics

Academic Titles / Tasks

Professor, Istanbul University, Aziz Sancar Institute of Experimental Medicine, Department of Genetics, 1998 - Continues

Academic and Administrative Experience

İstanbul Üniversitesi, Deneysel Tıp Araştırma Enstitüsü, Genetik, 1998 - 2012

Advising Theses

ÜNALTUNA N., Türk Popülasyonunda HNF1A Gen Mutasyonlarının Araştırılması, Postgraduate, T.Çelik(Student), 2013

ÜNALTUNA N., Ducehenne Becker tipi kas hastalarında genotip fenotip ilişkisi, Postgraduate, A.Kocaman(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Association of Intelectin 1 Gene rs2274907 A > T Polymorphism with Obesity, Type 2 Diabetes, Serum Intelectin-1 Levels and Lipid Profiles in Turkish Adults**
Guclu-Geyik F., Koseoglu P., Guven G., Can G., KAYA A., ÇOBAN N., BAYRAK A. E., Erginel-Unaltuna N.
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- II. **Examining the expression levels of ferroptosis-related genes in angiographically determined coronary artery disease patients**
Ozuynuk A. S., Erkan A. F., Coban N., Unaltuna N.
MOLECULAR BIOLOGY REPORTS, vol.49, no.8, pp.7677-7686, 2022 (SCI-Expanded)
- III. **Examining the effects of the CLU and APOE polymorphisms' combination on coronary artery disease complexed with type 2 diabetes mellitus**
Ozuynuk A. S., Erkan A. F., Doğan N., EKİCİ B., Erginel-Unaltuna N., Kurmus O., Coban N.
JOURNAL OF DIABETES AND ITS COMPLICATIONS, vol.36, no.1, 2022 (SCI-Expanded)
- IV. **Cholesterol-related gene variants are associated with diabetes in coronary artery disease patients**
Ozuynuk A. S., Erkan A. F., EKİCİ B., Erginel-Unaltuna N., Coban N.
MOLECULAR BIOLOGY REPORTS, vol.48, pp.3945-3954, 2021 (SCI-Expanded)
- V. **The rs2175898 Polymorphism in theESR1Gene has a Significant Sex-Specific Effect on Obesity**
Guclu-Geyik F., ÇOBAN N., Can G., Erginel-Unaltuna N.
BIOCHEMICAL GENETICS, vol.58, no.6, pp.935-952, 2020 (SCI-Expanded)
- VI. **Sex-specific associations of TCF7L2 variants with fasting glucose, type 2 diabetes and coronary heart disease among Turkish adults**
Yüzbaşıoğulları A. B., Kömürçü-Bayrak E., Onat A., Can G., Mononen N., Laaksonen R., Kähönen M., Lehtimäki T., Erginel-Ünaltuna N.
ANATOLIAN JOURNAL OF CARDIOLOGY, vol.24, no.5, pp.326-333, 2020 (SCI-Expanded)
- VII. **Peripheral TREM2 mRNA levels in early and late-onset Alzheimer disease's patients.**
Guven G., BİLGİÇ B., SAMANCI B., GÜRVİT İ. H., Hanagasi H. A., Donmez C., Aslan R., Lohmann E., Erginel-Unaltuna N.
Molecular biology reports, vol.47, no.8, pp.5903-5909, 2020 (SCI-Expanded)
- VIII. **The association of serum clusterin levels and Clusterin rs11136000 polymorphisms with Alzheimer disease in a Turkish cohort**
Guven G., Ozer E., Bilgiç B., Hanagasi H., Gurvit H., Lohmann E., Erginel-Unaltuna N.
NEUROLOGICAL SCIENCES AND NEUROPHYSIOLOGY, vol.37, no.3, pp.134-141, 2020 (SCI-Expanded)
- IX. **Peripheral GRN mRNA and Serum Progranulin Levels as a Potential Indicator for Both the Presence of Splice Site Mutations and Individuals at Risk for Frontotemporal Dementia.**
Güven Z. G., Bilgiç B., Tüfekçi Z., Ünaltuna N., Hanağası H. A., Gürvit İ. H., Singleton A., Hardy J., Emre M., Güleç Ç., et al.
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- X. **A patient with early-onset Alzheimer's disease with a novel PSEN1 p.Leu424Pro mutation**
Guven G., Erginel-Unaltuna N., Samanci B., Gulec C., Hanagasi H. A., Bilgic B.
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- XI. **Association between selected cholesterol-related gene polymorphisms and Alzheimer's disease in a Turkish cohort**
Guven G., Vurgun E., Bilgic B., Hanagasi H. A., Gurvit H., Özer E., Lohmann E., Erginel-Unaltuna N.
MOLECULAR BIOLOGY REPORTS, vol.46, no.2, pp.1701-1707, 2019 (SCI-Expanded)
- XII. **The rs2516839 variation of USF1 gene is associated with 4-year mortality of nonagenarian women: The Vitality 90+study**
Ozsait-Selcuk B. Ş., Komurcu-Bayrak E., Jylha M., Luukkaala T., PEROLA M., Kristiansson K., Mononen N., Hurme M., Kahonen M., GOEBELER S., et al.
ANNALS OF HUMAN GENETICS, vol.83, no.1, pp.34-45, 2019 (SCI-Expanded)
- XIII. **Peripheral GRN mRNA and Serum Progranulin Levels as a Potential Indicator for Both the Presence of Splice Site Mutations and Individuals at Risk for Frontotemporal Dementia**

Guven G., Bilgic B., Tufekcioglu Z., Unaltuna N., Hanagasi H. A., Gurvit H., Singleton A., Hardy J., Emre M., Gulec Ç., et al.

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XIV. The rs2516839 Variation of USF1 Gene is Associated with 4-Year Mortality of Nonagenarian Women: The Vitality 90+ Study

Özsait Selçuk B., BAYRAK A. E., Jylhä M., T. L., Perola M., Kristiansson K., Mononen N., Hurme M., Kähönen M., Goebeler S., et al.

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XV. HPCA Confirmed as a Genetic Cause of DYT2-Like Dystonia Phenotype

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MOVEMENT DISORDERS, vol.33, no.8, pp.1354-1358, 2018 (SCI-Expanded)

XVI. Role of LRRK2 and SNCA in autosomal dominant Parkinson's disease in Turkey

KESSLER C., ATASU B., Hanagasi H. A., SIMON-SANCHEZ J., HAUSER A., Pak M., Bilgic B., Erginel-Unaltuna N., Gurvit H., GASSER T., et al.

PARKINSONISM & RELATED DISORDERS, vol.48, pp.34-39, 2018 (SCI-Expanded)

XVII. Mutations in TYROBP are not a common cause of dementia in a Turkish cohort

Darwent L., Carmona S., Lohmann E., GUVEN G., Kun-Rodrigues C., Bilgic B., Hanagasi H. A., Gurvit H., ERGINEL-UNALTUNA N., Pak M., et al.

Neurobiology of Aging, vol.58, 2017 (SCI-Expanded)

XVIII. Role of simvastatin and ROR alpha activity in the macrophage apoptotic pathway

Coban N., Gulec Ç., Selcuk B. O., Erginel-Unaltuna N.

ANATOLIAN JOURNAL OF CARDIOLOGY, vol.17, no.5, pp.362-366, 2017 (SCI-Expanded)

XIX. Identification of potential target genes of ROR-alpha in THP1 and HUVEC cell lines.

Gulec C., Coban N., Ozsait-Selcuk B. Ş., Sirma-Ekmekci S., Yildirim O., Erginel-Unaltuna N.

Experimental cell research, vol.353, pp.6-15, 2017 (SCI-Expanded)

XX. CYP19A1, MIF and ABCA1 genes are targets of the ROR alpha in monocyte and endothelial cells

Coban N., Gulec Ç., Ozsait-Selcuk B., Erginel-Unaltuna N.

CELL BIOLOGY INTERNATIONAL, vol.41, no.2, pp.163-176, 2017 (SCI-Expanded)

XXI. Mutation Frequency of the Major Frontotemporal Dementia Genes, MAPT, GRN and C9ORF72 in a Turkish Cohort of Dementia Patients

Guven G., Lohmann E., Bras J., GIBBS J. R., Gurvit H., Bilgic B., Hanagasi H. A., RIZZU P., HEUTINK P., Emre M., et al.

PLOS ONE, vol.11, no.9, 2016 (SCI-Expanded)

XXII. Risk of obesity and metabolic syndrome associated with FTO gene variants discloses clinically relevant gender difference among Turks

Guclu-Geyik F., Onat A., Yuzbasiogullari A. B., Coban N., Can G., Lehtimäki T., Erginel-Unaltuna N.

MOLECULAR BIOLOGY REPORTS, vol.43, no.6, pp.485-494, 2016 (SCI-Expanded)

XXIII. Loss of VPS1 3C Function in Autosomal-Recessive Parkinsonism Causes Mitochondrial Dysfunction and Increases PINK1/Parkin-Dependent Mitophagy

LESAGE S., DROUET V., MAJOUNIE E., DERAMECOURT V., JACOUPY M., NICOLAS A., CORMIER-DEQUAIRE F., HASSOUN S. M., PUJOL C., CIURA S., et al.

AMERICAN JOURNAL OF HUMAN GENETICS, vol.98, no.3, pp.500-513, 2016 (SCI-Expanded)

XXIV. Lipoprotein(a) level and MIF gene variant predict incident metabolic syndrome and mortality

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JOURNAL OF INVESTIGATIVE MEDICINE, vol.64, no.2, pp.392-399, 2016 (SCI-Expanded)

XXV. Higher expression level of Bat3 is associated with silencing of the midn gene in primary mouse cardiomyocytes

Ozsait Selcuk B., Komurcu Bayrak E., Erginel Unaltuna N.

Turkish Journal of Biology, vol.40, no.6, pp.1295-1302, 2016 (SCI-Expanded)

XXVI. Sex- and Obesity-specific Association of Aromatase (CYP19A1) Gene Variant with Apo lipoprotein B and Hypertension

- Coban N., Onat A., Guclu-Geyik F., Can G., Erginel-Unaltuna N.
ARCHIVES OF MEDICAL RESEARCH, vol.46, no.7, pp.564-571, 2015 (SCI-Expanded)
- XXVII. **The Investigation of ANG-2 and PDGF-BB Genotyping in Alzheimer Disease**
Pala M., Gurvit I. H., Hanagasi H. A., Lohmann E., Emre M., Unaltuna N. E.
ACTA PHYSIOLOGICA, vol.215, pp.20, 2015 (SCI-Expanded)
- XXVIII. **A new F-box protein 7 gene mutation causing typical Parkinson's disease**
Lohmann E., COQUEL A., HONORE A., Gurvit H., Hanagasi H. A., Emre M., LEUTENEGGER A. L., DROUET V., SAHBATOU M., Guven G., et al.
MOVEMENT DISORDERS, vol.30, no.8, pp.1130-1133, 2015 (SCI-Expanded)
- XXIX. **Clinical variability in ataxia-telangiectasia**
LOHMANN E., KRUEGER S., HAUSER A., Hanagasi H. A., Guven G., Erginel-Unaltuna N., BISKUP S., GASSER T.
JOURNAL OF NEUROLOGY, vol.262, no.7, pp.1724-1727, 2015 (SCI-Expanded)
- XXX. **Low "quotient" Lp(a) Concentration Mediates Autoimmune Activation and Independently Predicts Cardiometabolic Risk**
Onat A., Coban N., Can G., Yueksel M., KARAGOEZ A., Yueksel H., Ademoglu E., Erginel-UEnaltuna N.
EXPERIMENTAL AND CLINICAL ENDOCRINOLOGY & DIABETES, vol.123, no.1, pp.11-18, 2015 (SCI-Expanded)
- XXXI. **Oxidative stress-mediated (sex-specific) loss of protection against type-2 diabetes by macrophage migration inhibitory factor (MIF)-173G/C polymorphism**
Coban N., Onat A., Yildirim O., Can G., Erginel-Unaltuna N.
CLINICA CHIMICA ACTA, vol.438, pp.1-6, 2015 (SCI-Expanded)
- XXXII. **Association between non-coding polymorphisms of HOPX gene and syncope in hypertrophic cardiomyopathy**
Gulec C., Abaci N., Bayrak F., BAYRAK E. K., KAHVECI G., Guven C., Unaltuna N.
ANATOLIAN JOURNAL OF CARDIOLOGY, vol.14, no.7, pp.617-624, 2014 (SCI-Expanded)
- XXXIII. **Prevalence of Prader-Willi Syndrome among Infants with Hypotonia**
Tuysuz B., Kartal N., Erener-Ercan T., Guclu-Geyik F., Vural M., Perk Y., Ercal D., Erginel-Unaltuna N.
JOURNAL OF PEDIATRICS, vol.164, no.5, pp.1064-1067, 2014 (SCI-Expanded)
- XXXIV. **Gender-specific associations of the APOA1-75G > A polymorphism with several metabolic syndrome components in Turkish adults**
Coban N., Onat A., Guclu-Geyik F., Komurcu-Bayrak E., Can G., Erginel-Unaltuna N.
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- XXXV. **Gender specific association of ABCA1 gene R219K variant in coronary disease risk through interactions with serum triglyceride elevation in Turkish adults**
Coban N., Onat A., Bayrak E. K., Gulec Ç., Can G., Unaltuna N.
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- XXXVI. **High Serum Apolipoprotein E Determines Hypertriglyceridemic Dyslipidemias, Coronary Disease and ApoA-I Dysfunctionality**
ONAT A., Can G., ORNEK E., Ayhan E., Erginel-Unaltuna N., MURAT S. N.
LIPIDS, vol.48, no.1, pp.51-61, 2013 (SCI-Expanded)
- XXXVII. **TREM2 Variants in Alzheimer's Disease**
Guerreiro R., WOJTAS A., BRAS J., CARRASQUILLO M., Rogaeva E., MAJOUNIE E., CRUCHAGA C., Sassi C., KAUWE J. S. K., Lupton M. K., et al.
NEW ENGLAND JOURNAL OF MEDICINE, vol.368, no.2, pp.117-127, 2013 (SCI-Expanded)
- XXXVIII. **Minor allele of the APOA4 gene T347S polymorphism predisposes to obesity in postmenopausal Turkish women**
Guclu-Geyik F., Onat A., Coban N., Komurcu-Bayrak E., Sansoy V., Can G., Erginel-Unaltuna N.
MOLECULAR BIOLOGY REPORTS, vol.39, no.12, pp.10907-10914, 2012 (SCI-Expanded)
- XXXIX. **Isolation and analysis of genes mainly expressed in adult mouse heart using subtractive hybridization cDNA library**
Komurcu-Bayrak E., Ozsait B. Ş., Erginel-Unaltuna N.
MOLECULAR BIOLOGY REPORTS, vol.39, no.8, pp.8065-8074, 2012 (SCI-Expanded)

- XL. Identification of PSEN1 and PSEN2 gene mutations and variants in Turkish dementia patients**
Lohmann E., Guerreiro R. J., Erginel-Unaltuna N., Gurunlian N., Bilgic B., Gurvit H., Hanagasi H. A., LUU N., Emre M., SINGLETON A.
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- XLI. Genetic bases and phenotypes of autosomal recessive Parkinson disease in a Turkish population**
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EUROPEAN JOURNAL OF NEUROLOGY, vol.19, no.5, pp.769-775, 2012 (SCI-Expanded)
- XLII. Gender- and obesity-specific effect of apolipoprotein C3 gene (APOC3)-482C > T polymorphism on triglyceride concentration in Turkish adults**
Coban N., Onat A., Guclu-Geyik F., Komurcu-Bayrak E., Sansoy V., HERGENÇ G., Can G., ERGINEL-UNALTUNA N.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, vol.50, no.2, pp.285-292, 2012 (SCI-Expanded)
- XLIII. LRRK2 mutations are uncommon in Turkey**
Hanagasi H. A., Lohmann E., Dursun B., HONORE A., LESAGE S., Dogu O., Kaleagasi H., Aydin O., Gurvit H., Erginel-Unaltuna N., et al.
European Journal of Neurology, vol.18, no.10, 2011 (SCI-Expanded)
- XLIV. Sequence variations of NKX2-5 and HAND1 genes in patients with atrial isomerism.**
Hatemi A. C., Gulec Ç., Cine N., Vural B., Hatirnaz O., Sayitoglu M., Oztunc F., Saltik L., Kansiz E., Unaltuna N. E.
Anadolu kardiyoloji dergisi : AKD = the Anatolian journal of cardiology, vol.11, no.4, pp.319-28, 2011 (SCI-Expanded)
- XLV. The APOE -219G/T and +113G/C polymorphisms affect insulin resistance among Turks.**
Komurcu-Bayrak E., Onat A., Yuzbasiogullari B., Mononen N., Laaksonen R., Kahonen M., HERGENÇ G., Lehtimäki T., Erginel-Unaltuna N.
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- XLVI. APOC3-482C > T polymorphism, circulating apolipoprotein C-III and smoking: Interrelation and roles in predicting type-2 diabetes and coronary disease**
Onat A., Erginel-Unaltuna N., Coban N., CICEK G., Yuksel H.
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- XLVII. Niemann-Pick type C fibroblasts have a distinct microRNA profile related to lipid metabolism and certain cellular components**
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BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.403, pp.316-321, 2010 (SCI-Expanded)
- XLVIII. Apolipoprotein A-I positively associated with diabetes in women independently of apolipoprotein E genotype and apolipoprotein B levels**
Onat A., Komurcu-Bayrak E., Can G., Kucukdurmaz Z., HERGENÇ G., Erginel-Unaltuna N.
NUTRITION, vol.26, no.10, pp.975-980, 2010 (SCI-Expanded)
- XLIX. THE EFFECTS OF GRIN GENE VARIATIONS ON AGE AT ONSET OF TURKISH HUNTINGTON'S DISEASE PATIENTS**
Tunali N. E., Acar-Hazer A., Erginel-Unaltuna N., Hanagasi H. A.
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- L. TP53 R72P POLYMORPHISM AS A MODIFIER OF AGE AT ONSET OF HUNTINGTON'S DISEASE**
Tunali N. E., Acar-Hazer A., Erginel-Unaltuna N., Hanagasi H. A.
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- LI. Pretreatment with Octreotide Modulates iNOS Gene Expression, Mimics Surgical Delay, and Improves Flap Survival**
Gozu A., Poda M., Taskin E. I., Turgut H., Erginel-Unaltuna N., Dogruman H., Ozsoy Z.
ANNALS OF PLASTIC SURGERY, vol.65, no.2, pp.245-249, 2010 (SCI-Expanded)
- LII. The variations of BOP gene in hypertrophic cardiomyopathy.**
Abaci N., Gulec Ç., Bayrak F., Komurcu-Bayrak E., KAHVECI G., Erginel-Unaltuna N.
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- LIII. Association of C-reactive protein (CRP) gene allelic variants with serum CRP levels and hypertension in Turkish adults**
Komurcu-Bayrak E., Erginel-Unaltuna N., Onat A., Ozsait B. Ş., Eklund C., Hurme M., Mononen N., Laaksonen R., HERGENÇ G., Lehtimäki T.
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- LIV. Endothelial function and endothelial nitric oxide synthase intron 4a/b polymorphism in primary hyperparathyroidism**
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- LV. Preheparin serum lipoprotein lipase mass interacts with gender, gene polymorphism and, positively, with smoking**
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- LVI. ADAM-9, ADAM-15, and ADAM-17 are upregulated in macrophages in advanced human atherosclerotic plaques in aorta and carotid and femoral arteriesTampere vascular study**
Oksala N., Levula M., Airla N., Pelto-Huikko M., Ortiz R. M., Jarvinen O., Salenius J., Ozsait B. Ş., Komurcu-Bayrak E., Erginel-Unaltuna N., et al.
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- LVII. A novel protein involved in heart development in Ambystoma mexicanum is localized in endoplasmic reticulum**
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- LVIII. CETP TaqIB polymorphism in Turkish adults: association with dyslipidemia and metabolic syndrome**
Ozsait B. Ş., Koemuercue-Bayrak E., Poda M., Can G., Hergenc G., ONAT A., Humphries S. E., Erginel-Uenaltuna N.
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- LIX. THE GENDER LIMITED EFFECT USF1 GENE POLYMORPHISMS IN THE TURKISH ADULT RISK FACTOR (TARF) STUDY**
Coban N., Poda M., Guner E. H., Can G., ONAT A., Humphries S., Erginel-Unaltuna N.
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- LX. USF1 GENE IS INVOLVED IN THE REGULATION OF HUMAN LONGEVITY**
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- LXI. Endothelial nitric oxide synthase intron 4a/b polymorphism and early atherosclerotic changes in hypopituitary GH-deficient adult patients**
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- LXII. PREHEPARIN SERUM LIPOPROTEIN LIPASE MASS IN METABOLIC SYNDROME AND CORONARY HEART DISEASE: INTERACTION WITH GENDER, GENE POLYMORPHISM AND SMOKING**
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- LXIII. CRP GENE POLYMORPHISMS ARE INVOLVED IN THE REGULATION OF PLASMA CRP CONCENTRATIONS IN TURKISH POPULATION: TURKISH ADULT RISK FACTOR STUDY**
Komurcu-Bayrak E., Ozsait B. Ş., Mononen N., Laaksonen R., ONAT A., HERGENÇ G., Lehtimäki T., Erginel-Unaltuna N.
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- LXIV. THE ASSOCIATION BETWEEN THE IL6-6331T > C POLYMORPHISM AND METABOLIC SYNDROME IN THE TURKISH ADULT RISK FACTOR (TARF) STUDY**
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- LXV. Hereditary thrombophilic risk factors and venous thromboembolism in Istanbul, Turkey: The role in different clinical manifestations of venous thromboembolism**

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- LXVI. **Genetic analysis of the *Irx4* gene in hypertrophic cardiomyopathy.**
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Turk Kardiyoloji Dernegi arsivi : Turk Kardiyoloji Derneginin yayin organidir, vol.36, no.2, pp.90-5, 2008 (SCI-Expanded)
- LXVII. **Gender-modulated impact of apolipoprotein A5 gene (APOA5)-1131T > C and c.56C > G polymorphisms on lipids, dyslipidemia and metabolic syndrome in Turkish adults**
Komurcu-Bayrak E., Onat A., Poda M., Humphries S. E., Palmen J., Guclu F., Can G., Erginel-Unaltuna N.
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