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Education Information

Doctorate, Hacettepe University, Tıp Fakültesi, Tıbbi Biyokimya, Turkey 2001 - 2004
Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Tıbbi Biyokimya, Turkey 1997 - 2001
Undergraduate, Ankara University, Tıp Fakültesi, Turkey 1990 - 1996

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Heksozaminidaz enzimi alfa-altbirim genindeki 12 bazçiftlik delesyon mutasyonunun heksozaminidaz enzimi beta-altbirim geninde in vitro mutagenez ile oluşturulması ve proteine etkilerinin araştırılması, Hacettepe Üniversitesi, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 2004

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

Academic Titles / Tasks

Professor, Hacettepe University, Tıp Fakültesi, Tıbbi Biyokimya, 2018 - Continues
Associate Professor, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2011 - 2018
Assistant Professor, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2005 - 2011
Lecturer, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2004 - 2005
Expert, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2001 - 2004
Research Assistant, Hacettepe University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1997 - 2001

Advising Theses

Advising Theses

Lay İ., Primer ve sekonder glioblastomaların metabolomik yaklaşımla incelenmesi, Doctorate, M.ÖZGÜR(Student), 2023
LAY İ., Analysis of oxysterol species in type 1 and type 2 diabetes mellitus by lc-ms/ms method, Doctorate, A.SAMADI(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A comparative urinary proteomic and metabolomic analysis between renal aa amyloidosis and membranous nephropathy with clinicopathologic correlations**
ÖZBEK D. A., Koc S. C., Kucuk N. E. O., Kablan S. E., YET İ., ÜNER M., Ozlu N., NEMUTLU E., LAY İ., Ayhan A. S., et al.
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II. **Glycemic variability leads to higher levels of auto-oxidized oxysterol species in patients with type 1 diabetes mellitus**
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III. **Decreased plasma levels of sphingolipids and total cholesterol in adult cystic fibrosis patients**
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Prostaglandins Leukotrienes and Essential Fatty Acids, vol.197, 2023 (SCI-Expanded)

IV. **Serum vitamin D levels and vitamin D receptor gene ApaI and TaqI polymorphisms in patients with morphea: a case–control study**
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V. **The Triglycerides-Glucose Index Shows a Stronger Correlation with Serum Adiponectin Levels than Homeostasis Model Assessment of Insulin Resistance and Quantitative Insulin Sensitivity Check Index**
ŞENDUR S. N., IŞGIN ATICI K., TURAN DEMİRCİ B., LAY İ., BÜYÜKTUNCER DEMİREL Z., Erbas T.
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VI. **Nonalcoholic Fatty Liver Disease, Liver Fibrosis and Utility of Noninvasive Scores in Patients with Acromegaly.**
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The Journal of clinical endocrinology and metabolism, 2023 (SCI-Expanded)

VII. **Plasma Proteomic Analysis Reveals the Potential Role of Lectin and Alternative Complement Pathways in IgA Vasculitis Pathogenesis**
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VIII. **Plasma levels of oxysterols 7-ketocholesterol and cholestane-3 beta, 5 alpha, 6 beta-triol in patients with allergic asthma**
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IX. **Serum growth differentiation factor-15 levels are associated with the severity of diabetic foot ulcer**
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HORMONES-INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM, vol.21, pp.719-728, 2022 (SCI-Expanded)

X. **Clinical evaluation of muscle functions in neurofibromatosis type 1**
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XI. **A Child with Developmental Regression and Electroencephalographic Abnormalities**
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XII. **Specific FSTL1 polymorphism may determine the risk of cardiomyopathy in patients with acromegaly.**

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XIII. **Possible Effect of Chelation Treatment on Metabolomic and Lipidomic Analysis in Lead Exposure**
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XIV. **Increased Plasma YKL-40 Level and Chitotriosidase Activity in Cystic Fibrosis Patients**
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XV. **Acute and short-term effects of Lactobacillus paracasei subsp. paracasei 431 and inulin intake on appetite control and dietary intake: A two-phases randomized, double blind, placebo-controlled study.**
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XVI. **An investigation of different intracellular parameters for Inborn Errors of Metabolism: Cellular stress, antioxidant response and autophagy**
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Free Radical Biology and Medicine, vol.179, pp.190-199, 2022 (SCI-Expanded)

XVII. **Interaction between Dietary Fat Intake and Metabolic Genetic Risk Score on 25-Hydroxyvitamin D Concentrations in a Turkish Adult Population**
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XVIII. **A combination of Q-TOF LC/MS and LC-MS/MS based metabolomics in pediatric-onset multiple sclerosis demonstrates potential biomarkers for unclassified patients**
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XIX. **A new UHPLC-MS/MS method for the screening of urinary oligosaccharides expands the detection of storage disorders**
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XX. **Homozygous missense VPS16 variant is associated with a novel disease, resembling mucopolysaccharidosis-plus syndrome in two siblings**
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XXI. **Oxysterol species generated by auto-oxidation in subclinical hypothyroidism**
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XXII. **FTOgene-lifestyle interactions on serum adiponectin concentrations and central obesity in a Turkish population**
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XXIV. **Factors affecting the response to Y-90 microsphere therapy in the cholangiocarcinoma patients**
Bozkurt M., Eldem G., Bozbulut U. B., BOZKURT M. F., KILIÇKAP S., PEYNİRCİOĞLU B., Cil B., Lay Ergun E., VOLKAN SALANCI B.
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XXV. **A Comprehensive Review on Oxysterols and Related Diseases**
Samadi A., SABUNCUOĞLU S., Samadi M., YILMAZ IŞIKHAN S., Chirumbolo S., Peana M., LAY İ., YALÇINKAYA A., Bjorklund G.
CURRENT MEDICINAL CHEMISTRY, vol.28, no.1, pp.110-136, 2021 (SCI-Expanded)

XXVI. **Predictive biomarkers of IgA vasculitis with nephritis by metabolomic analysis**
DEMİR S., KAPLAN O., ÇELEBİER M., SAĞ E., BİLGİNER Y., LAY İ., ÖZEN S.
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XXVII. **The role of calcium sensing receptors in GLP-1 and PYY secretion after acute intraduodenal administration of L-Tryptophan in rats**
Acar I., Cetinkaya A., LAY İ., İLERİ GÜREL E.
Nutritional Neuroscience, vol.23, no.6, pp.481-489, 2020 (SCI-Expanded)

XXVIII. **Plasma Ceramides and Sphingomyelins of Pediatric Patients Increase in Primary Ciliary Dyskinesia but Decrease in Cystic Fibrosis**
Bal T., Tugcu G., Ozcan F., Aslan M., Yalcinkaya A., Polat S., Hizal M., Yalcin E., Ersoz D., Ozcelik U., et al.
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XXIX. **Apoptosis Inhibitor of Macrophage, Monocyte Chemotactic Protein-1, and C-Reactive Protein Levels Are Increased in Patients with Metabolic Syndrome: A Pilot Study**
Savas E. M., Oguz S. H., Samadi A., YILMAZ IŞIKHAN S., ÜNLÜTÜRK U., LAY İ., Gurlek A.
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XXX. **Evaluation of oxysterol levels of patients with silicosis by LC-MS/MS method**
Aksu N., Samadi A., Yalçınkaya A., Çetin T., Eser B., Lay İ., Öziş T., Öztaş Y., Sabuncuoğlu S.
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XXXI. **Assessment of the relationship between polysomnography parameters and plasma malondialdehyde levels in patients with obstructive sleep apnea**
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XXXII. **Prenatal enzymatic diagnosis of lysosomal storage diseases using cultured amniotic cells, uncultured chorionic villus samples, and fetal blood cells: Hacettepe experience**
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XXXIII. **Vascular endothelial growth factor gene polymorphisms in patients with rosacea: A case-control study**
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XXXIV. **Oxysterols may contribute to hemolysis in sickle cell disease**
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XXXV. **Oxysterol concentrations are associated with cholesterol concentrations and anemia in pediatric patients with sickle cell disease**
Yalcinkaya A., Samadi A., Lay İ., Unal S., Sabuncuoglu S., Oztas Y.
SCANDINAVIAN JOURNAL OF CLINICAL & LABORATORY INVESTIGATION, vol.79, no.6, pp.381-387, 2019 (SCI-Expanded)

XXXVI. **Oxysterol species: reliable markers of oxidative stress in diabetes mellitus**
Samadi A., Gurlek A., Sendur S. N., Karahan S., Akbiyik F., Lay İ.
JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION, vol.42, no.1, pp.7-17, 2019 (SCI-Expanded)

XXXVII. **Zinc, copper, and oxysterol levels in patients with type 1 and type 2 diabetes mellitus**
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XXXVIII. **Impact of Fat Mass and Obesity Associated (FTO) Gene Variants and Lifestyle Factors on Obesity Traits in A Turkish Population**
Alsulami S., Isgin-Atici K., Turan-Demirci B., Surendran S., ŞENDUR S. N., LAY İ., KARABULUT E., Ellahi B., Lovegrove

L., ALİKAŞİFOĞLU M., et al.
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XXXIX. **Cerebrospinal fluid oligoclonal banding patterns and intrathecal immunoglobulin synthesis: Data comparison from a wide patient group**
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NEUROLOGICAL SCIENCES AND NEUROPHYSIOLOGY, vol.35, no.1, pp.21-28, 2018 (SCI-Expanded)

XL. **Gycaemic variability is associated with oxidative damage indepently from glycaemic control in type 1 diabetes.**
DAĞDELEN S., BAHÇECİOĞLU MUTLU A. B., LAY İ., SAMADİ A., ÜNLÜTÜRK U., BAYRAKTAR M.
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XLI. **Increased plasma 7-ketocholesterol levels may explain the hypocholesterolemia of sickle cell disease patients**
Yalçinkaya A., Samadi A., Lay I., Ünal S., Er Öztaş Y.
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XLII. **Screening for mucopolysaccharidoses in the Turkish population: Analytical and clinical performance of an age-range specific, dye-based, urinary glycosaminoglycan assay**
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LI. **T-786C Polymorphism in Promoter of eNOS Gene as Genetic Risk Factor in Patients With Erectile**

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Articles Published in Other Journals

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II. **Reduced irisin levels in patients with acromegaly**
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IV. **Pathways and Inborn Errors of Bile Acid Synthesis**
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V. **The Effect of Effort Test on the Levels of Ischemia Modified Albumin, 7-ketocholesterol and Cholestan-3β , 5α , 6β -triol and their Role in the Diagnosis of Coronary Artery Disease.**
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Metrics

Publication: 120
Citation (WoS): 283
Citation (Scopus): 413
H-Index (WoS): 9
H-Index (Scopus): 12

Non Academic Experience

Hacettepe Hastaneleri Merkez ve Acil Laboratuvarları
Hacettepe Üniversitesi Tıp Fakültesi Tıbbi Biyokimya Anabilim Dalı
Hospital for Sick Children, Genetics and Genome Biology, Toronto University, Toronto, Kanada
Hacettepe Üniversitesi Tıp Fakültesi Tıbbi Biyokimya Anabilim Dalı
Hacettepe Üniversitesi Tıp Fakültesi Tıbbi Biyokimya Anabilim Dalı
Hacettepe Üniversitesi Tıp Fakültesi Tıbbi Biyokimya Anabilim Dalı
Hospital for Sick Children, Department of Structural Biology and Biochemistry, Toronto University, Toronto, Kanada
Hacettepe Üniversitesi Tıp Fakültesi Tıbbi Biyokimya Anabilim Dalı