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Education Information

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya, Turkey 1980 - 1984

Post Graduate, Middle East Technical University, Fen Edebiyat Fakültesi/Biyolojik Bilimler , Biyokimya, Turkey 1978 - 1980

Under Graduate, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 1971 - 1978

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Purification of sheep liver pyruvate kinase and the effect of storage on the kinetic properties , Middle East Technical University, Fen Edebiyat Fakültesi/Fen Bilimleri Enstitüsü, Biyokimya, 1984

Post Graduate, The effect of cyclic nucleotides on intrinsic phosphoprotein phosphatase enzymes in ox brain synaptic plasma membranes , Middle East Technical University, Fen Edebiyat Fakültesi/Biyolojik Bilimler , Biyokimya, 1980

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry, Life Sciences, Biochemistry, Biomolecules, Enzymology, Metabolism, Proteomics, Natural Sciences

Academic Titles / Tasks

Professor, Cukurova University, Tıp Fakültesi, Temel Tıp Bilimler, 1996 - Continues

Associate Professor, Cukurova University, Tıp Fakültesi, Temel Tıp Bilimler, 1989 - 1996

Assistant Professor, Cukurova University, Tıp Fakültesi, Temel Tıp Bilimler, 1985 - 1989

Advising Theses

KAYRIN L., Koroner arter hastalığında leptin ve hs-CRP düzeyleri, Expertise In Medicine, S.ÖZAVCI(Student), 2011

KAYRIN L., Meme kanserli hastalarda tümör M2-pirüvat kinaz enziminin karakterizasyonu, Post Graduate, E.GÖRÜR(Student), 2006

KAYRIN L., Beta talasemide oksidatif stres, Post Graduate, E.Ş.(Student), 2005

KAYRIN L., Karaciğer tümöründe antioksidan sistem ve kolşisinin etkisi, Doctorate, N.CANACANKATAN(Student), 2004

KAYRIN L., Lösemili hastalarda saptanan piruvat kinaz enzim defekti mutasyonlarının belirlenmesi, Doctorate, K.TANRIVERDİ(Student), 2002

KAYRIN L., Alkol bağımlılığının antioksidan sistem, eser elementler, alkol dehidrogenaz enzim düzeyleri ve kardiyovasküler sistem üzerindeki etkileri, Expertise In Medicine, D.AVŞAROĞLU(Student), 1999

KAYRIN L., Sağlık ve ortak hücre anemili kişilerde eritrosit pituvat kinaz enziminin kinetik açıdan karşılaştırılması, Doctorate, M.BÜLENT(Student), 1998

KAYRIN L., Normal kişilerle all, relaps-all ve anlı kişilerde eritrosit piruvat kinaz enziminin kinetik açıdan karşılaştırılması, Post Graduate, H.ÖZÜSAĞLAM(Student), 1996

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

- I. **Detection of beta-thalassemia Cd 39 mutation by using piezoelectric biosensor for non-invasive prenatal diagnosis**
KÖKBAŞ U., KARTLAŞMIŞ K., YENİLMEZ E., TULİ A., KAYRIN L.
FEBS OPEN BIO, vol.8, pp.122-123, 2018 (Journal Indexed in SCI)
- II. **Electrochemical detection of aspartate transaminase using a multienzyme-modified biosensor**
KARTLAŞMIŞ K., KÖKBAŞ U., GÜNAŞTI B., TULİ A., KAYRIN L.
FEBS OPEN BIO, vol.8, pp.193-194, 2018 (Journal Indexed in SCI)
- III. **A new biosensor for noninvasive determination of fetal RHD status in maternal blood of RhD negative pregnant women**
Yenilmez E. D. , KÖKBAŞ U., KARTLAŞMIŞ K., KAYRIN L., TULİ A.
PLOS ONE, vol.13, no.6, 2018 (Journal Indexed in SCI)
- IV. **The effects of fetal hemoglobin levels on sickle cell anemia patients bone biochemistry**
KÖKBAŞ U., Yenilmez E. D. , TULİ A., ALPARSLAN Z. N. , KAYRIN L.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.41, no.5, pp.362-366, 2016 (Journal Indexed in SCI)
- V. **The activity and kinetics of pyruvate kinase in hypoxic newborns**
Narli N., Satar M., Kayrin L., Yapicioglu H., Ozlu F., BUDGAYCI R.
PEDIATRIC HEMATOLOGY AND ONCOLOGY, vol.22, no.7, pp.567-573, 2005 (Journal Indexed in SCI)
- VI. **Pyruvate kinase activity in cerebral hemispheres and cerebellum-brainstem of normal and hypoxic-ischemic newborn rats**
YAPICIOGLU H., Satar M., KAYRIN L., Tutak E., NARLI N.
CEREBELLUM, vol.3, no.3, pp.152-155, 2004 (Journal Indexed in SCI)
- VII. **Oxidative-antioxidative system in peripartum acute renal failure and preeclampsia-eclampsia**
Balal M., CANACANKATAN N., Paydas S., Seyrek N., Karayaylali I., Kayrin L.
RENAL FAILURE, vol.26, no.6, pp.625-632, 2004 (Journal Indexed in SCI)
- VIII. **Erythrocyte pyruvate kinase activity in term and preterm infants**
NARLI N., Satar M., ATICI A., KAYRIN L.
PEDIATRIC HEMATOLOGY AND ONCOLOGY, vol.15, no.1, pp.63-67, 1998 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Menstrual Cycle-Related Changes in Blood Serum Testosterone and Estradiol Levels and Their Ratio Stability in Young Healthy Females**
POPOVA L., VASYLIEVA I. M. , TKACHENCO A. S. , POLIKARPOVA H. V. , KÖKBAŞ U., TULİ A., KAYRIN L.,

ANATOLİYİVNA N. O.

Inter Collegas, vol.6, no.3, pp.155-160, 2019 (Refereed Journals of Other Institutions)

- II. **Kanser Metabolizması ve Otofaji**
KARTLAŞMIŞ K., KAYRIN L., KÖKBAŞ U.
ARŞİV KAYNAK TARAMA DERGİSİ, vol.27, no.4, pp.388-396, 2018 (National Non-Refereed Journal)
- III. **PIWI-Etkileşimli RNA'ların Biyogenezi ve İşlevleri**
KARTLAŞMIŞ K., KAYRIN L., KÖKBAŞ U.
ARŞİV KAYNAK TARAMA DERGİSİ, vol.27, no.1, pp.18-26, 2018 (National Non-Refereed Journal)
- IV. **Sirkadiyen saatin epigenetikle ilişkisi**
KARTLAŞMIŞ K., GÜNAŞTI B., KAYRIN L., ALPARSLAN M. M. , KÖKBAŞ U.
Arşiv Kaynak Tarama, vol.26, no.1, pp.50-62, 2017 (National Non-Refereed Journal)
- V. **Detection of β -thalassemia IVSI-110 mutation by using piezoelectric biosensor for non-invasive prenatal diagnosis**
KÖKBAŞ U., KAYRIN L.
Journal of Biosensors Bioelectronics, vol.8, no.2, 2017 (Refereed Journals of Other Institutions)
- VI. **SİRKADİYEN SAATİN EPIGENETİKLE İLİŞKİSİ**
Kartlaşmış K., KÖKBAŞ U., KAYRIN L.
Arşiv Kaynak Tarama Dergisi, 2016 (Other Refereed National Journals)
- VII. **Biochemistry of Apoptosis**
KARTLAŞMIŞ K., KÖKBAŞ U., KAYRIN L.
Arşiv Kaynak Tarama Dergisi, 2016 (Refereed Journals of Other Institutions)
- VIII. **Apoptozisin Biyokimyası**
Kartlaşmış K., KÖKBAŞ U., KAYRIN L.
ARŞİV KAYNAK TARAMA DERGİSİ, no.25, pp.126-138, 2015 (National Refreed University Journal)
- IX. **Biosensors and Their Medical Application**
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Arşiv Kaynak Tarama Dergisi, 2013 (Refereed Journals of Other Institutions)
- X. **Biosensors and their Medical Applications**
KÖKBAŞ U., TULİ A., KAYRIN L.
ARŞİV KAYNAK TARAMA DERGİSİ, no.24, pp.499-513, 2013 (National Refreed University Journal)
- XI. **Biyosensörler ve Tıpta Kullanım Alanları**
KÖKBAŞ U., TULİ A., KAYRIN L.
ARŞİV KAYNAK TARAMA DERGİSİ, vol.22, no.4, pp.499-513, 2013 (National Refreed University Journal)
- XII. **Lack of antioxidant effect of colchicine in healthy rats**
TULİ A., DAĞLIOĞLU Y. K. , DORAN F., Canacankatan N., KAYRIN L., Atilla G., Kanık A.
FABAD J.Pharm.Sci, vol.33, pp.25-33, 2008 (Refereed Journals of Other Institutions)
- XIII. **Çukurova Üniversitesi Tıp Fakültesi Dönem I Eğitiminde Yeni Düzenlemeler**
Kasap M., ALPTEKİN D., Doran F., Altıntaş D., Özgünen F. T. , Saltoğlu N., Narlı N., Özbek S., Kayrın L., Keskin E.
TIP EĞİTİMİ DÜNYASI, vol.19, no.2, pp.3-7, 2005 (Other Refereed National Journals)

Books & Book Chapters

- I. **The Diagnostic Significance of Basic Clinical Indices of Blood and Urine**
Ivanovich Z. V. , Nakonechna Oksana A., TULİ A., KAYRIN L., KÖKBAŞ U., Sergeyevich T. A. , Sergeyevich M. A. , Yaşar Ü., Mikhailovna V. I. , Yuryevna B. I.
in: Diagnostic Significance of Metabolic and Clinical Parameters in Disease Monitoring, Ivanovich Z. V., Anatolyevna N. O., Tuli A, Kayrın L., Editor, Adana Nobel Kitabevi, Ankara, pp.221-246, 2016
- II. **Enzymes and Their Diagnostic Significance in Clinical Practice**
KAYRIN L., TULİ A.
in: Diagnostic Significance of Metabolic and Clinical Parameters in Disease Monitoring, Ivanovich Z. V., Anatolyevna

Refereed Congress / Symposium Publications in Proceedings

- I. **The Effect of One Year Feldenkrais Exercise Program on Vitamin of A, C,E and B Groups at the Elderly**
Özoruç S., SEVİMLİ D., KÖKBAŞ U., DOĞANAY A., KAYRIN L.
The International Congress of Sports for All and Wellness, Antalya, Turkey, pp.122
- II. **The Effect of One Year Feldenkrais Exercise Program on Biochemical Bone Turnover Markers at the Elderly**
Özoruç S., SEVİMLİ D., KÖKBAŞ U., DOĞANAY A., KAYRIN L.
". The International Congress of Sports for All and Wellness, Antalya, Turkey, pp.325
- III. **The Effect of One Year Feldenkrais Exercise Program on Vitamin of A, C,E and B Groups at the Elderly**
Özoruç S., SEVİMLİ D., KÖKBAŞ U., DOĞANAY A., KAYRIN L.
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- IV. **The Effect of One Year Feldenkrais Exercise Program on Vitamin of A, C,E and B Groups at the Elderly**
Özoruç S., SEVİMLİ D., KÖKBAŞ U., DOĞANAY A., KAYRIN L.
The International Congress of Sports for All and Wellness, Antalya, Turkey, pp.122
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- VII. **Nokta Mutasyonların Tayinine Yönelik DNA Çipi (Sözlü Sunum Birincilik Ödülü - En İyi Araştırma)**
KÖKBAŞ U., ŞEMİSİ R., SEPİCİ DİNÇEL A., ERGÜNOL E., TULİ A., KAYRIN L.
IV. Türkiye in vitro Diyagnostik Sempozyumu, Biyosensörler, İzmir, 20 - 22 February 2019, vol.44, pp.15-17
- VIII. **Application of UV light and temperature period of biosensors developed for determination of serum iron**
İLHAN A., KÖKBAŞ U., TULİ A., KAYRIN L.
XXVII. Balkan Clinical Laboratory Federation Meeting BCLF/XXX. National Congress of The Turkish Biochemical Society TBS, 27 - 31 October 2019, vol.44
- IX. **Design of a new biosensor for the determination of ferric iron in blood**
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XXVII. Balkan Clinical Laboratory Federation Meeting BCLF/XXX. National Congress of The Turkish Biochemical Society TBS, 27 - 31 October 2019, vol.44
- X. **Lab-on-a-chip based biosensor for the realtime multiplex analysis of alpha thalassemi mutations from cell-free DNA**
KÖKBAŞ U., KAYRIN L., TULİ A.
44th FEBS Congress, 6 - 11 July 2019
- XI. **A NEW BIOSENSOR DESIGN FOR DETERMINING OF GHRELIN**
KOSOVA F., DEMİRCİ H., CAMBAZ ULAŞ S., GÖKER A., KÖKBAŞ U., TULİ A., KAYRIN L., Çetin Ö.
IV. Türkiye in vitro Diyagnostik Sempozyumu, 20 - 22 February 2019
- XII. **Design of a new biosensor for the determination of ferrous iron in blood**
İlhan A., KARTLAŞMIŞ K., KÖKBAŞ U., TULİ A., KAYRIN L.
TBD Uluslararası Biyokimya KONGresi, 26 - 30 October 2018

- XIII. **A New Biosensor Design for Determining of Phenolic Compounds**
KÖKBAŞ U., KARTLAŞMIŞ K., GÜNAŞTI B., Akün E., TULİ A., KAYRIN L.
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XIV. **Detection of β -thalassemia FSC 8 Frame Shift by Using Piezoelectric Genosensor**
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International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XV. **The Validation Of Bienzomatic Glucose Biosensor for Diagnosis And Prognosis Of Diabetes Mellitus**
KARTLAŞMIŞ K., GÜNAŞTI B., KÖKBAŞ U., TULİ A., Akün E., KAYRIN L.
INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, 26 - 27 April 2018
- XVI. **Analysis of the Electrochemical Working Range of Tyrosine Kinase Enzyme by Cyclic Voltammetry Technique**
KARTLAŞMIŞ K., KÖKBAŞ U., GÜNAŞTI B., TULİ A., KAYRIN L.
INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, 26 - 27 April 2018
- XVII. **A New Biosensor System Design For Determination Of Glucose-6-Phosphate Dehydrogenase Enzyme Activity**
GÜNAŞTI B., KARTLAŞMIŞ K., KÖKBAŞ U., KAYRIN L., TULİ A.
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XVIII. **The Effect of One Year Feldenkrais Exercise Program on Biochemical Bone Turnover Markers at the Elderly**
Özoruç S., SEVİMLİ D., KÖKBAŞ U., DOĞANAY A., KAYRIN L.
" The International Congress of Sports for All and Wellness, Antalya, Turkey, 5 - 08 April 2018, pp.65-66
- XIX. **PH OPTIMIZATION OF THE BIOSENSOR DEVELOPED FOR THE DETERMINATION OF CARBONDIOXIDE**
İlhan A., KARTLAŞMIŞ K., KÖKBAŞ U., TULİ A., KAYRIN L.
Uluslararası Biyokimya Kongresi, 19 - 23 September 2017
- XX. **A NEW DESIGNED BIOSENSOR FOR THE URIC ACID DETERMINATION**
Erkan O., KÖKBAŞ U., KARTLAŞMIŞ K., TULİ A., KAYRIN L.
Uluslararası Biyokimya Kongresi, 19 - 23 September 2017
- XXI. **ELECTROCHEMICAL CHARACTERISATION OF HYDROGEN PEROXIDASE ENZYME**
KÖKBAŞ U., KARTLAŞMIŞ K., AKYILMAZ E., TULİ A., KAYRIN L.
Uluslararası Biyokimya Kongresi, 19 - 23 September 2017
- XXII. **DETECTION OF B-THALASSEMIA IVSI-1 MUTATION USING PIEZOELECTRIC BIOSENSOR IMMOBILIZED WITH A SINGLE OLIGONUCLEOTIDE**
KÖKBAŞ U., KARTLAŞMIŞ K., DÜNDAR YENİLMEZ E., TULİ A., KAYRIN L.
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- XXIII. **RAPID METHOD FOR DETERMINATION OF ACUTE MYOCARDIAL INFARCTION: A NEW DESIGN OF ELECTROCHEMICAL BIOSENSOR**
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ULUSLARARASI DNA GÜNÜ VE GENOM KONGRESİ, 24 - 28 April 2017
- XXIX. **A GENOSENSOR DESIGN FOR DETECTION OF FETAL CELL-FREE DNA**
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- XXX. **A NEW BIOSENSOR DESIGN IN 5-HIAA DETERMINATION FOR THE DIAGNOSIS OF CARCINOID TUMORS**
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- XXXI. **DETECTION OF B-THALASSEMIA IVSI-6 MUTATION USING PIEZOELECTRIC BIOSENSOR IMMOBILIZED WITH A SINGLE OLIGONUCLEOTIDE**
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- XXXII. **THE HORMONAL PROFILE IN WOMEN OF YOUNG AGE IN UKRAINE AND TURKEY IN DIFFERENT PHASES OF THE MENSTRUAL CYCLE. POPULATION COMPARISON**
KÖKBAŞ U., Yaşar Ü., Tkachenko A., Polikarpova H., DÜNDAR YENİLMEZ E., ALPARSLAN M. M. , Popova L., Nakonechna O., TULİ A., KAYRIN L.
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- XXXIII. **A new biosensor for fetal RHD detection from circulation cell free DNA in maternal plasma**
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- XXXIV. **A new biosensor for rapid determining of lung cancer**
KARTLAŞMIŞ K., KÖKBAŞ U., SANNA B., ALPARSLAN M. M. , KAYRIN L.
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YENİLMEZ E., KÖKBAŞ U., ALPARSLAN M. M. , Sanna B., KARTLAŞMIŞ K., KAYRIN L., TULİ A.
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- XXXVII. **In vitro genotoxic perspective of Tamiflu**
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- XXXVIII. **Detection of beta-thalassemia IVSI-110 mutation by using piezoelectric biosensor immobilized with a single oligonucleotide**
TULİ A., KÖKBAŞ U., KARTLAŞMIŞ K., ALPARSLAN M. M. , YENİLMEZ E., KAYRIN L.
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- XXXIX. **A new biosensor for rapid determining of oxidant agent hydrogen peroxide**
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- XL. **The Effects of Fetal Hemoglobin Levels On Sickle Cell Anemia Patients Bone Biochemistry**
KÖKBAŞ U., SANNA B., ALPARSLAN M. M. , KARTLAŞMIŞ K., DÜNDAR YENİLMEZ E., TULİ A., ALPARSLAN Z. N. , KAYRIN L.
27. Ulusal Biyokimya Kongresi, Antalya, Turkey, 3 - 06 November 2015, vol.40
- XLI. **Biyokimya Laboratuvar Eğitiminde İnovasyon Çalışmaları**

KAYRIN L., ÖZKAN Y., YÜKSEL M., SEPİCİ DİNÇEL A.

XXVII. ULUSAL BİYOKİMYA KONGRESİ, Turkey, 3 - 06 November 2015, vol.40

XLII. Comparison of some bone markers between hemoglobinopathy patients and normal individuals

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IFCC WorldLab Istanbul 2014, Mersin, Turkey, 22 - 26 June 2014, pp.1

XLIII. The effect of L-Carnitine on SOD, GSH and MDA following experimental spinal cord injury in rats

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31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.242

XLIV. Çukurova Üniversitesi Tıp Fakültesi Dönem I eğitiminde yeni düzenlemeler

Kasap M., Alptekin D., Doran F., Altıntaş D., Özgünen F. T. , Satoğlu N., Narlı N., Özbek S., Kayrın L., Kekin E.

III. Ulusal Tıp Eğitimi Kongresi, Şanlıurfa, Turkey, 12 - 16 April 2004, vol.B204, pp.114

XLV. Kolşisin ve Antioksidan Sistem

DORAN F., Atilla G., KAYRIN L., DAĞLIOĞLU Y. K. , Canacankatan N.

Serbest Radikaller ve Antioksidanlar Araştırma Derneği III. Ulusal Kongresi, Afyon, Turkey, 01 March 2003, pp.74

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XLVII. Çukurova Üniversitesi Tıp Fakültesinde 1999-2001 yılları arasında yapılan iletişim toplantıları ve sonuçları

Kasap M., ALPTEKİN D., Yücel H. A. , Mete Ö., Doran F., Karataş Y., Altıntaş D., Kayrın L., Antmen B., Özbarlas S., et al.

II. Ulusal Tıp Eğitimi Kongresi "2000'li Yıllarda Tıp Eğitimi, İzmir, Turkey, 24 - 28 April 2001, pp.43

Other Publications

I. The Effects of Fetal Hemoglobin Levels on Sickle Cell Patitents Bone Biochemistry

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Other, pp.50, 2015

Supported Projects

DÜNDAR YENİLMEZ E., Kartlaşmış K., TULİ A., KAYRIN L., ALPARSLAN M. M. , KÖKBAŞ U., SANNA B., Project Supported by Higher Education Institutions, 17-hidroksiprogesteron Düzeyini Saptayan Yeni Bir Elektrobiyokimyasal Ölçüm Yöntemi Geliştirilmesi, 2017 - 2019

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