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Education Information

Doctorate, Rutgers, The State University of New Jersey, United States Of America 2001 - 2007
Postgraduate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1999 - 2001
Undergraduate, Marmara University, Ataturk Faculty Of Education, Mathematics And Science Education, Turkey 1994 - 1999

Dissertations

Doctorate, Spectroscopic Studies and Synthetic Applications of Thiamin Diphosphate Dependent Enzymes, Rutgers, The State University of New Jersey, 2007
Postgraduate, Alfa-diazo-beta-oksoaldehit bileşiklerinin alfa, beta-enonlar ile halkalaşma reaksiyonları, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2001

Research Areas

Biochemistry

Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Basic Sciences, 2021 - Continues
Associate Professor, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Basic Sciences, 2016 - 2021
Assistant Professor, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Basic Sciences, 2015 - 2016
Assistant Professor, Istanbul Medipol University, School Of Medıcıne, Department Of Basıc Medıcal Scıences, 2013 - 2015

Courses

Temel Proteomik Teknikler, Postgraduate, 2015 - 2016
Biochemistry, Undergraduate, 2014 - 2015
Biyokimya, Undergraduate, 2014 - 2015, 2013 - 2014
Temel Biyokimya, Associate Degree, 2013 - 2014

Advising Theses

Baykal A. T., Diyabetik anne bebeklerinde, mekonyum ve dışkı örneklerinin Nükleer Manyetik Rezonans (IVDr NMR) spektroskopi yöntemi kullanılarak metabolit profillerinin araştırılması ve klinik özellikleri ile değerlendirilmesi, Doctorate, G.Uslu(Student), Continues
Baykal A. T., Alzheimer Hastalığı'nda Periferal Mitokondriyal Disfonksiyon, Doctorate, S.Arabacı(Student), Continues
Baykal A. T., Glikan Profilleme ile MS Oligoklonal Band Analizinin Gerçekleştirilmesi, Postgraduate, F.Şahin(Student), Continues
Baykal A. T., Serteser M., RENAL ALLOGRAFT REDDİNDE YENİ POTANSİYEL ADAY BİYOBELİRTEÇLERİN ÇOKLU OMİK YAKLAŞIMLARLA TANIMLANMASI , Doctorate, İ.Yozgat(Student), Continues
Baykal A. T., Nörodejeneratif Mekanizmaların Başlangıcının 5XFAD Transgenik Alzheimer Hastalığı Fare Modelinde Proteomik Yöntemlerle Araştırılması , Doctorate, İ.Uras(Student), Continues
Baykal A. T., Servikal Kanserde Vücut Sıvılarından Klinik Biyobelirteçleri Belirleme ve Alternatif Kanser Tarama Yöntemlerini Araştırma, Doctorate, B.Köse(Student), 2023
Baykal A. T., Klinik testlerde immünfiksasyon elektroforez analizine alternatif otomatize mikropipet afinite kromatografi kiti ve analiz yöntemi geliştirilmesi, Doctorate, Z.Zühal(Student), 2023
Baykal A. T., DUCHENNE MUSKULAR DISTROFISI (DMD), GENETIK KAS ZAYIFLIĞI HASTALIĞINDA GEN TERAPISI, Doctorate, S.Abanuz(Student), 2023
Baykal A. T., Huntington Hastalığı Beyin Proteom Değişimlerinin YAC128 Transgenik Fare Modelinde MALDI-MS Görüntüleme Tekniği ile Araştırılması, Doctorate, M.Karayel(Student), 2022
Baykal A. T., Doğal Bileşiklerin Bilişsel Bozulmayı Iyileştirici Etkisinin Alzheimer Fare Modelinde Kütle Spektrometresi Teknikleri ile Araştırılması , Doctorate, İ.Kırış(Student), 2022
Baykal A. T., Alzheimer Transgenik Fare Modellemesi ile Metaproteomik Yöntemler Kullanılarak Bağırsak Mikrobiyotasının Araştırılması, Postgraduate, E.Ayan(Student), 2020
Baykal A. T., Parkinson hastalığında nöronal-lipit profili değişimi, Postgraduate, E.KADIOĞLU(Student), 2018
Baykal A. T., Alzheimer Hastalığına Ait Beyin Dokusundaki Protein Değişikliklerinin MALDI-MS Görüntüleme Tekniği İle Belirlenmesi, Postgraduate, E.AKGÜN(Student), 2018
Baykal A. T., Beyin ekstrasellüler matriksinin nörodejenerasyondaki rolünün alzheimer fare modelinde araştırılması, Doctorate, B.AYDOĞDU(Student), 2017
Baykal A. T., Proteomik yaklaşımlarla nörodejeneratif mekanizmaların araştırılması ve tedaviye yönelik potansiyel hedeflerin belirlenmesi, Doctorate, Ç.ACIOĞLU(Student), 2016
Baykal A. T., Alzheimer hastalığında yaşa bağlı hipokampusteki protein profil değişimi ile meydana gelen farklılıklar ve ilişkili yolakların transgenik 5XFAD fare modeli üzerinde incelenmesi, Postgraduate, A.SÜMEYYE(Student), 2016
Baykal A. T., Yenidoğan alzheimer transgenik fare modelinde farklı beyin bölgelerinde protein profil değişimlerinin incelenmesi, Postgraduate, A.RUMEYSA(Student), 2016
Baykal A. T., Parkinson hastalığına sahip bireylerde serum kökenli olası biyomarkerların LC-MS/MS kullanılarak incelenmesi ve tanımlanması, Postgraduate, Ş.TÜRKSEVEN(Student), 2015
Baykal A. T., Torasik aort anevrizmalı (TAA) dokuda protein ekspresyonunun incelenmesi, Doctorate, M.SERHATLI(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Longitudinal non-targeted metabolomic profiling of urine samples for monitoring of kidney transplantation patients**

Yozgat I., Cakır Ü., Serdar M. A., Sahin S., Sezerman O. U., Nemutlu E., Baykal A. T., Serteser M.
RENAL FAILURE, vol.46, no.1, 2024 (SCI-Expanded)

II. **Detection of early proteomic alterations in 5xFAD Alzheimer's disease neonatal mouse model via MALDI-MSI**
Uras I., Karayel-Basar M., Sahin B., Baykal A. T.
ALZHEIMERS & DEMENTIA, vol.19, no.10, pp.4572-4589, 2023 (SCI-Expanded)

III. **Bridging the Gap between Gut Microbiota and Alzheimer's Disease: A Metaproteomic Approach for Biomarker Discovery in Transgenic Mice**
Baykal A. T.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.0, no.0, 2023 (SCI-Expanded)

IV. **Chloride intracellular channel protein-1 (CLIC1) antibody in multiple sclerosis patients with predominant optic nerve and spinal cord involvement**
Baykal A. T., Karaaslan Z., Küçükali C. İ.
MULTIPLE SCLEROSIS AND RELATED DISORDERS, vol.0, no.0, pp.104940, 2023 (SCI-Expanded)

V. **Detection of proteomic alterations at different stages in a Huntington's disease mouse model via matrix-assisted laser desorption/ionization mass spectrometry (MALDI-MS) imaging**
Karayel-Basar M., Uras I., Kiris I., Baykal A. T.
EUROPEAN JOURNAL OF NEUROSCIENCE, vol.58, no.4, pp.2985-3002, 2023 (SCI-Expanded)

VI. **Quantitative Proteomic Analysis of MCM3 in ThinPrep Samples of Patients with Cervical Preinvasive Cancer**
Koese B., van de Laar R., van Beekhuizen H., van Kemenade F., BAYKAL A. T., Luider T., Guzel C.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.24, no.13, 2023 (SCI-Expanded)

VII. **Altered expression of MZB1 in periodontitis: A possible link to disease pathogenesis.**
Sunnetci-Akkoyunlu D., Guzeldemir-Akcakanat E., Alkan B., Gurel B., Balta-Uysal V. M., Akgun E., Baykal A. T., Olgac V.
Journal of periodontology, 2023 (SCI-Expanded)

VIII. **Lentiviral micro-dystrophin gene treatment into late-stage mdx mice for Duchene Muscular Dystrophy disease.**
Eren S. A., Tastan C., Karadeniz K. B., Turan R. D., Cakirsoy D., Kancagi D. D., Yilmaz S. U., Oztatlici M., Oztatlici H., Ozer S., et al.
Current gene therapy, 2023 (SCI-Expanded)

IX. **Rapid detection of serum free light chains by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry.**
Kaya Z. Z., Serdar M. A., Aksungar F., Kilercik M., Serteser M., Baykal A. T.
European journal of mass spectrometry (Chichester, England), vol.29, no.2, pp.132-140, 2023 (SCI-Expanded)

X. **Proteomic alterations in the cerebellum and hippocampus in an Alzheimer's disease mouse model: Alleviating effect of palmatine**
Baykal A. T.
BIOMEDICINE AND PHARMACOTHERAPY, vol.158, no.158, pp.114111, 2023 (SCI-Expanded)

XI. **Hydroquinidine displays a significant anticarcinogenic activity in breast and ovarian cancer cells via inhibiting cell-cycle and stimulating apoptosis**
Yavuz M., Sahin B., BAYKAL A. T., Demircan T.
TURKISH JOURNAL OF BIOLOGY, vol.47, no.1, pp.44-60, 2023 (SCI-Expanded)

XII. **Decreased levels of cytokines implicate altered immune response in plasma of moderate-stage Alzheimer's disease patients**
Koca S., Kiris I., Sahin S., Cinar N., Karsidag S., Hanagasi H. A., Yildiz G. B., Tarik Baykal A. T.
Neuroscience Letters, vol.786, 2022 (SCI-Expanded)

XIII. **Transcriptomics and Proteomics Analyses Reveal JAK Signaling and Inflammatory Phenotypes during Cellular Senescence in Blind Mole Rats: The Reflections of Superior Biology**
Inci N., Akyildiz E. O., Bülbül A. A., Tahir Turanlı E., Akgun E., Baykal A. T., Colak F., Bozaykut P.
BIOLOGY, vol.11, pp.1253-1267, 2022 (SCI-Expanded)

XIV. **Evaluation of the efficacy of cow colostrum in the treatment and its effect on serum proteomes in**

calves with cryptosporidiosis
KAÇAR Y., BAYKAL A. T., AYDIN L., BATMAZ H.
VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, vol.248, 2022 (SCI-Expanded)

XV. **Spatial proteomic alterations detected via MALDI-MS imaging implicate neuronal loss in a Huntington's disease mouse (YAC128) brain.**
Karayel-Basar M., Uras I., Kiris I., Sahin B., Akgun E., Baykal A. T.
Molecular omics, 2022 (SCI-Expanded)

XVI. **Serum Proteomic Changes in Dogs with Different Stages of Chronic Heart Failure**
Saril A., KOCATÜRK M., Shimada K., Uemura A., Akgun E., Levent P., BAYKAL A. T., Prieto A. M., Agudelo C. F., Tanaka R., et al.
ANIMALS, vol.12, no.4, 2022 (SCI-Expanded)

XVII. **Kappa/Lambda light-chain typing in Alzheimer's Disease.**
Kaya Z. Z., Tuzuner M. B., Sahin B., Akgun E., Aksungar F., Koca S., Serdar M., Sahin S., Cinar N., Karsidag S., et al.
Current Alzheimer research, vol.19, no.1, pp.84-93, 2022 (SCI-Expanded)

XVIII. **Molecular Effects of Pteryxin and Scopoletin in the 5xFAD Alzheimer's Disease Mouse Model**
Kiris I., Skalicka-Wozniak K., Basar M. K., Sahin B., Gurel B., Baykal A. T.
CURRENT MEDICINAL CHEMISTRY, vol.29, no.16, pp.2937-2950, 2022 (SCI-Expanded)

XIX. **Point-of-care diagnosis of cervical cancer: potential protein biomarkersin cervicovaginal fluid**
Kose B., Takmaz O., Gungor M., Baykal A. T.
TURKISH JOURNAL OF BIOLOGY, vol.46, no.3, pp.195-206, 2022 (SCI-Expanded)

XX. **Molecular analysis of cell survival and death pathways in the proteasome inhibitor bortezomib-resistant PC3 prostate cancer cell line**
Kanbur E., BAYKAL A. T., YERLİKAYA A.
MEDICAL ONCOLOGY, vol.38, no.9, 2021 (SCI-Expanded)

XXI. **Nasal secretory protein changes following intravenous choline administration in calves with experimentally induced endotoxaemia**
KOCATÜRK M., Inan O. E., Tvarijonaviciute A., Sahin B., BAYKAL A. T., CANSEV M., Ceron J. J., YILMAZ Z., ULUS İ. H.
VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, vol.233, 2021 (SCI-Expanded)

XXII. **Evaluation of the Therapeutic Effect of Lycoramine on Alzheimer's Disease in Mouse Model.**
Kiris I., Basar M. K., Sahin B., Gurel B., Coskun J., Mroczek T., Baykal A. T.
Current medicinal chemistry, vol.28, pp.3449-3473, 2021 (SCI-Expanded)

XXIII. **Platelet proteome changes in dogs with congestive heart failure**
Levent P., KOCATÜRK M., Akgun E., Saril A., Cevik O., BAYKAL A. T., Tanaka R., Ceron J. J., YILMAZ Z.
BMC VETERINARY RESEARCH, vol.16, no.1, 2020 (SCI-Expanded)

XXIV. **Proteins associated with neutrophil degranulation are upregulated in nasopharyngeal swabs from SARS-CoV-2 patients**
Akgun E., Tuzuner M., Sahin B., Kilercik M., Kulah C., Cakiroglu H., Serteser M., Unsal I., Baykal A. T.
PLOS ONE, vol.15, no.10, 2020 (SCI-Expanded)

XXV. **Brain region-specific amyloid plaque-associated myelin lipid loss, APOE deposition and disruption of the myelin sheath in familial Alzheimer's disease mice**
Kaya I., Jennische E., Lange S., BAYKAL A. T., Malmberg P., Fletcher J. S.
JOURNAL OF NEUROCHEMISTRY, vol.154, no.1, pp.84-98, 2020 (SCI-Expanded)

XXVI. **Comparison of protein expression profile of limb regeneration between neotenic and metamorphic axolotl**
Sibai M., Altuntaş E., Süzek B., Şahin B., Parlayan C., Öztürk G., Baykal A. T., Demircan T.
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.522, no.2, pp.428-434, 2020 (SCI-Expanded)

XXVII. **Interaction of melatonin and Bmal1 in the regulation of PI3K/AKT pathway components and cellular survival.**
Beker M., Caglayan B., Caglayan A., Kelestemur T., Yalcin E., Caglayan A., Kilic U., Baykal A. T., Reiter R., Kilic E.
Scientific reports, vol.9, pp.19082, 2019 (SCI-Expanded)

XXVIII. **Spatial Lipidomics Reveals Region and Long Chain Base Specific Accumulations of**

Monosialogangliosides in Amyloid Plaques in Familial Alzheimer's Disease Mice (5xFAD) Brain.
Kaya I., Jennische E., Dunevall J., Lange S., Ewing A., Malmberg P., Baykal A. T., Fletcher J.
ACS chemical neuroscience, 2019 (SCI-Expanded)

XXIX. **Hyperthermophilic flavin reductase from Sulfolobus solfataricus P2: Production and biochemical characterization**
Gun G., Imamoglu R., Tatli O., Yurum Y., BAYKAL A. T., Dinler-Doganay G.
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, vol.66, no.6, pp.915-923, 2019 (SCI-Expanded)

XXX. **Evidence that melatonin downregulates Nedd4-1 E3 ligase and its role in cellular survival**
Yalcin E., Beker M. C., Turkseven S., Caglayan B., Gurel B., Kilic U., Caglayan A. B., Kalkan R., Baykal A. T., Kelestemur T., et al.
TOXICOLOGY AND APPLIED PHARMACOLOGY, vol.379, 2019 (SCI-Expanded)

XXXI. **Molecular signatures of chronic periodontitis in gingiva: A genomic and proteomic analysis**
Guzeldemir-Akcakanat E., Alkan B., Sunnetci-Akkoyunlu D., GÜREL B., BALTA V. M., Kan B., AKGÜN E., Yilmaz E. B., BAYKAL A. T., ÇİNE N., et al.
JOURNAL OF PERIODONTOLOGY, vol.90, no.6, pp.663-673, 2019 (SCI-Expanded)

XXXII. **Proteomics Analysis of CA1 Region of the Hippocampus in Pre-, Progression and Pathological Stages in a Mouse Model of the Alzheimer's Disease**
Gurel B., CANSEV M., Koc C., ÖCALAN B., ÇAKIR A., Aydin S., KAHVECİ N., ULUS İ. H., Sahin B., Basar M. K., et al.
CURRENT ALZHEIMER RESEARCH, vol.16, no.7, pp.613-621, 2019 (SCI-Expanded)

XXXIII. **Proteomic Analysis of Liver Preservation Solutions Prior to Liver Transplantation**
COSKUN A., BAYKAL A. T., Oztug M., KAZAN D., KAYA E., EMİROĞLU R., YILMAZ S., DÜNDAR H. Z., Akgoz M., BERBER İ., et al.
CURRENT PROTEOMICS, vol.16, no.2, pp.119-135, 2019 (SCI-Expanded)

XXXIV. **A Proteomic Analysis of Mitochondrial Complex III Inhibition in SH-SY5Y Human Neuroblastoma Cell Line**
Acioglu C., Tuzuner M. B., Serhatli M., Acilan C., Sahin B., Akgun E., Adiguzel Z., Gürel B., Baykal A. T.
CURRENT PROTEOMICS, vol.16, pp.136-147, 2019 (SCI-Expanded)

XXXV. **Time-of-Day Dependent Neuronal Injury After Ischemic Stroke: Implication of Circadian Clock Transcriptional Factor Bmal1 and Survival Kinase AKT**
Beker M. C., Caglayan B., Yalcin E., Caglayan A. B., Turkseven S., Gurel B., Kelestemur T., Sertel E., Şahin Z., Kutlu S., et al.
MOLECULAR NEUROBIOLOGY, vol.55, pp.2565-2576, 2018 (SCI-Expanded)

XXXVI. **Early Stage Alterations in CA1 Extracellular Region Proteins Indicate Dysregulation of IL6 and Iron Homeostasis in the 5XFAD Alzheimer's Disease Mouse Model**
Gurel B., CANSEV M., Sevinc C., Kelestemur S., ÖCALAN B., ÇAKIR A., Aydin S., KAHVECİ N., OZANSOY M., Taskapilioglu O., et al.
JOURNAL OF ALZHEIMERS DISEASE, vol.61, no.4, pp.1399-1409, 2018 (SCI-Expanded)

XXXVII. **In vivo evolutionary engineering for ethanol-tolerance of Saccharomyces cerevisiae haploid cells triggers diploidization**
Turanli-Yildiz B., Benbadis L., Alkim C., Sezgin T., Aksit A., Gokce A., Ozturk Y., BAYKAL A. T., Çakar Z. P., Francois J. M.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.124, no.3, pp.309-318, 2017 (SCI-Expanded)

XXXVIII. **Clinical applications of MALDI imaging technologies in cancer and neurodegenerative diseases**
Ucal Y., Durer Z. A., Atak H., Kadioglu E., Sahin B., COŞKUN A., BAYKAL A. T., ÖZPINAR A.
BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS, vol.1865, no.7, pp.795-816, 2017 (SCI-Expanded)

XXXIX. **Proteomic profiling of HBV infected liver biopsies with different fibrotic stages**
Katrinli Ş., Ozdil K., Sahin A., Ozturk O., Kir G., Baykal A. T., Akgun E., Sarac O. S., Sokmen M., Doganay H. L., et al.
PROTEOME SCIENCE, vol.15, 2017 (SCI-Expanded)

XL. **Detailed tail proteomic analysis of axolotl (Ambystoma mexicanum) using an mRNA-seq reference database**
Demircan T., Keskin I., Dumlu S. N., Ayturk N., Avsaroglu M. E., Akgun E., Ozturk G., BAYKAL A. T.

PROTEOMICS, vol.17, no.1-2, 2017 (SCI-Expanded)

XLI. **Proteomics analysis of mitochondrial dysfunction triggered by complex specific electron transport chain inhibitors reveals common pathways involving protein misfolding in an SH-SY5Y in vitro cell model**
Sahin B., Baykal A. T.
TURKISH JOURNAL OF BIOLOGY, vol.41, pp.765-785, 2017 (SCI-Expanded)

XLII. **Tumor necrosis factor-alpha induced caspase-3 activation-related iNOS gene expression in ADP-activated platelets**
Cevik O., Adiguzel Z., BAYKAL A. T., Sener A.
TURKISH JOURNAL OF BIOLOGY, vol.41, no.1, pp.31-40, 2017 (SCI-Expanded)

XLIII. **Proteomic Analysis of Kidney Preservation Solutions Prior to Renal Transplantation**
COSKUN A., BAYKAL A. T., KAZAN D., Akgoz M., Senal M. O., BERBER İ., Titiz I., Bilsel G., Kilercik H., Karaosmanoglu K., et al.
PLOS ONE, vol.11, no.12, 2016 (SCI-Expanded)

XLIV. **Changes in serum proteins after endotoxin administration in healthy and choline-treated calves.**
YILMAZ Z., Inan O., Kocaturk M., BAYKAL A. T., Hacariz O., Hatipoglu I., Tvarijonaviciute A., CANSEV M., Ceron J., Ulus İ. H.
BMC veterinary research, vol.12, no.1, pp.210, 2016 (SCI-Expanded)

XLV. **Proteome profiling of the compatible interaction between wheat and stripe rust**
Demirci Y. E., Inan C., Gunel A., Maytalman D., MERT Z., BAYKAL A. T., Korkut S. V., Arda N., Hasancebi S.
EUROPEAN JOURNAL OF PLANT PATHOLOGY, vol.145, no.4, pp.941-962, 2016 (SCI-Expanded)

XLVI. **Toll like receptor 9 antagonism modulates spinal cord neuronal function and survival: Direct versus astrocyte-mediated mechanisms**
Acioglu C., Mirabelli E., Baykal A. T., Ni L., Ratnayake A., Heary R. F., Elkabes S.
BRAIN BEHAVIOR AND IMMUNITY, vol.56, pp.310-324, 2016 (SCI-Expanded)

XLVII. **Platelets Proteomic Profiles of Acute Ischemic Stroke Patients**
Cevik O., BAYKAL A. T., Sener A.
PLOS ONE, vol.11, no.6, 2016 (SCI-Expanded)

XLVIII. **Evaluation of Serum and Ascitic Fluid Proteomes in Dogs with Dilated Cardiomyopathy**
KOCATÜRK M., BAYKAL A. T., Turkseven S., Acioglu C., Agudelo C. F., YILMAZ Z.
KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, vol.22, no.2, pp.273-279, 2016 (SCI-Expanded)

XLIX. **Master redox regulator Trx1 upregulates SMYD1 & modulates lysine methylation**
Liu T., Wu C., Jain M. R., Nagarajan N., Yan L., Dai H., Cui C., Baykal A. T., Pan S., Ago T., et al.
BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS, vol.1854, no.12, pp.1816-1822, 2015 (SCI-Expanded)

L. **Linking a compound-heterozygous Parkin mutant (Q311R and A371T) to Parkinson's disease by using proteomic and molecular approaches**
Ozgul S., KASAP M., AKPINAR G., KANLI A., Guzel N., Karaosmanoglu K., BAYKAL A. T., Iseri P.
NEUROCHEMISTRY INTERNATIONAL, vol.85-86, pp.1-13, 2015 (SCI-Expanded)

LI. **A proteomic analysis of p53-independent induction of apoptosis by bortezomib in 4T1 breast cancer cell line**
YERLİKAYA A., Okur E., BAYKAL A. T., Acilan C., Boyaci I., Ulukaya E.
JOURNAL OF PROTEOMICS, vol.113, pp.315-325, 2015 (SCI-Expanded)

LII. **Hepatitis B virus e antigen (HBeAg) may have a negative effect on dendritic cell generation**
Hatipoglu I., Ercan D., Acilan C., Basalp A., Durali D., Baykal A. T.
IMMUNOBIOLOGY, vol.219, no.12, pp.944-949, 2014 (SCI-Expanded)

LIII. **Evaluation of apoptotic molecular pathways for smooth muscle cells isolated from thoracic aortic aneurysms in response to oxidized sterols**
Adiguzel Z., ARDA E. Ş. N., Kacar O., Serhatli M., Tas S. G., BAYKAL A. T., Baysal K., Acilan C.
MOLECULAR BIOLOGY REPORTS, vol.41, no.12, pp.7875-7884, 2014 (SCI-Expanded)

LIV. **Proteomic Study of the Microdissected Aortic Media in Human Thoracic Aortic Aneurysms**

Serhatli M., Baysal K., Acilan C., Tuncer E., Bekpinar S., BAYKAL A. T.
JOURNAL OF PROTEOME RESEARCH, vol.13, no.11, pp.5071-5080, 2014 (SCI-Expanded)

LV. **Biochemical and Proteomic Analysis of a Potential Anticancer Agent: Palladium(II) Saccharinate Complex of Terpyridine Acting through Double Strand Break Formation**
Adiguzel Z., BAYKAL A. T., Kacar O., YILMAZ V. T., Ulukaya E., Acilan C.
JOURNAL OF PROTEOME RESEARCH, vol.13, no.11, pp.5240-5249, 2014 (SCI-Expanded)

LVI. **Identification of ApoA1, HPX and POTEE genes by omic analysis in breast cancer**
ÇİNE N., Baykal A. T., Sunnetci D., Canturk Z., Serhatli M., SAVLI H.
ONCOLOGY REPORTS, vol.32, no.3, pp.1078-1086, 2014 (SCI-Expanded)

LVII. **Generating a detailed protein profile of Fasciola hepatica during the chronic stage of infection in cattle**
Hacariz O., Baykal A. T., Akgun M., Kavak P., Sagiroglu M. S., Sayers G. P.
PROTEOMICS, vol.14, no.12, pp.1519-1530, 2014 (SCI-Expanded)

LVIII. **mTor Is a Signaling Hub in Cell Survival: A Mass-Spectrometry-Based Proteomics Investigation**
Tang Z., Baykal A. T., Gao H., Quezada H. C., Zhang H., Bereczki E., Serhatli M., Baykal B., Acioglu C., Wang S., et al.
JOURNAL OF PROTEOME RESEARCH, vol.13, no.5, pp.2433-2444, 2014 (SCI-Expanded)

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