

## Assoc. Prof. Abdurrahman Fatih AYDIN

### Personal Information

**Office Phone:** +90 212 414 2000 Extension: 35094

**Email:** abdurrahman.aydin@istanbul.edu.tr

**Address:** İ.Ü. İstanbul Tıp Fakültesi Temel Bilimler Binası Tıbbi Biyokimya Anabilim Dalı 34093

### International Researcher IDs

Publons / Web Of Science ResearcherID: AAD-9170-2020

Yoksis Researcher ID: 239550

### Education Information

Expertise In Medicine, Istanbul University, Istanbul Medical Faculty, Tıbbi Biyokimya, Turkey 2005 - 2009

Undergraduate, Istanbul University, Istanbul Medical Faculty, Turkey 1998 - 2004

### Dissertations

Expertise In Medicine, Deneysel siroz modelinde karnozinin rolü, Istanbul University, Istanbul Medical Faculty, Tıbbi Biyokimya A.D., 2009

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

### Academic Titles / Tasks

Associate Professor, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, 2019 - Continues

Expert, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, 2012 - 2019

Research Assistant PhD, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, 2005 - 2009

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of oxidative stress markers in the saliva, gingival crevicular fluid, and serum samples of pregnant women with gestational diabetes and healthy pregnant women**  
Şimşek O. K., BAŞER Ü., Özgünler Ö., Demirci O., Aydın A. F., Kucukgergin C., YALÇIN F.  
Journal of Periodontal Research, vol.58, no.4, pp.745-754, 2023 (SCI-Expanded)
- II. **Iodine status of Turkish pregnant women and their offspring: A national cross-sectional survey**  
Vural M., Koç E., Evliyaoglu O., Acar H. C., Aydın A. F., Kucukgergin C., Apaydin G., Erginöz E., Babazade X., Sharifova S., et al.  
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, vol.63, 2021 (SCI-Expanded)
- III. **The protective effects of sesamol in a neonatal rat model of necrotizing enterocolitis**  
Cigsar E. B., Karadag C. A., Tanik C., Aydın A. F., Dokucu A. I.  
JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE, vol.33, no.6, pp.889-894, 2020 (SCI-Expanded)

- IV. **The comparison of CS-2500 and BCS XP coagulation analyzers for Factor VIII and Factor IX one-stage clotting assays**  
Genc S., Aydin A. F., Karaca E., Omer B.  
INTERNATIONAL JOURNAL OF LABORATORY HEMATOLOGY, vol.41, no.5, 2019 (SCI-Expanded)
- V. **Betaine treatment decreased serum glucose and lipid levels, hepatic and renal oxidative stress in streptozotocin-induced diabetic rats**  
Evrans B., Aydin A. F., Uguralp B., Sar M., Dogru-Abbasoglu S., Uysal M.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.43, no.4, pp.343-351, 2018 (SCI-Expanded)
- VI. **Carnosine decreased oxidation and glycation products in serum and liver of high-fat diet and low-dose streptozotocin-induced diabetic rats**  
Aydin A. F., Bingül İ., Küçükgergin C., Doğan-Ekici I., Doğru Abbasoğlu S., UYSAL M.  
International Journal of Experimental Pathology, vol.98, no.5, pp.278-288, 2017 (SCI-Expanded)
- VII. **Can Ultrasound Imaging Predict the Success of an Experimental Steatofibrosis Model?**  
Turkay R., Aydin A., Bingul İ., Kucukgergin C., Dogan-Ekici I., Hocaoglu E., Inci E., Bakir B., Uysal M.  
ULTRASOUND QUARTERLY, vol.33, no.2, pp.157-161, 2017 (SCI-Expanded)
- VIII. **Effect of Carnosine on Renal Function, Oxidation and Glycation Products in the Kidneys of High-Fat Diet/Streptozotocin-Induced Diabetic Rats**  
Aydin A. F., Kucukgergin C., Bingul I., Dogan-Ekici I., Dogru-Abbasoglu S., Uysal M.  
EXPERIMENTAL AND CLINICAL ENDOCRINOLOGY & DIABETES, vol.125, no.5, pp.282-289, 2017 (SCI-Expanded)
- IX. **The effect of carnosine on methylglyoxal-induced oxidative stress in rats**  
YILMAZ Z., Kalaz E. B., Aydın A. F., Soluk-Tekkeşin M., Doğru-Abbasoğlu S., Uysal M. M., Koçak-Toker N.  
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, no.3, pp.192-198, 2017 (SCI-Expanded)
- X. **Protective effects of carnosine alone and together with alpha-tocopherol on lipopolysaccharide (LPS) plus ethanol-induced liver injury**  
Kalaz E. B., Aydın A. F., DOĞAN-EKICI I., ÇOBAN J., Doğru-Abbasoğlu S., Uysal M. M.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, pp.23-29, 2016 (SCI-Expanded)
- XI. **Antioxidant Effects of Probiotics in Experimentally Induced Peritonitis**  
Erginel B., Aydın F. F., ERGINEL T., TANIK C., Abbasoglu S. D., Soysal F. G., Keskin E., Celik A., Salman T.  
SURGICAL INFECTIONS, vol.17, no.1, pp.114-118, 2016 (SCI-Expanded)
- XII. **Blueberry treatment decreased D-galactose-induced oxidative stress and brain damage in rats**  
Coban J., Dogan-Ekici I., Aydın A. F., Betul-Kalaz E., Dogru-Abbasoglu S., Uysal M.  
METABOLIC BRAIN DISEASE, vol.30, no.3, pp.793-802, 2015 (SCI-Expanded)
- XIII. **The evaluation of endothelin 1 (EDN1) and endothelin receptor type A (EDNRA) gene polymorphisms in Hashimoto's thyroiditis**  
Aydin A. F., Vural P., Oruc C. U., Dogru-Abbasoglu S., OZDERYA A., KARADAG B., Uysal M.  
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.21, no.1, pp.181-185, 2014 (SCI-Expanded)
- XIV. **Blueberry treatment attenuates D-galactose-induced oxidative stress and tissue damage in rat liver**  
Coban J., Betul-Kalaz E., Kucukgergin C., Aydın A. F., Dogan-Ekici I., Dogru-Abbasoglu S., Uysal M.  
GERIATRICS & GERONTOLOGY INTERNATIONAL, vol.14, no.2, pp.490-497, 2014 (SCI-Expanded)
- XV. **Carnosine and taurine treatments decreased oxidative stress and tissue damage induced by D-galactose in rat liver**  
Kalaz E. B., Coban J., Aydın A. F., Dogan-Ekici I., Dogru-Abbasoglu S., Oztezcan S., Uysal M.  
JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY, vol.70, no.1, pp.15-25, 2014 (SCI-Expanded)
- XVI. **Polymorphisms of endothelin 1 (G5665T and T-1370G) and endothelin receptor type A (C+70G and G-231A) in Graves' disease**  
Aydin A. F., Develi-Is S., Dogru-Abbasoglu S., Vural P., OZDERYA A., KARADAG B., Uysal M.  
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.18, no.1, pp.198-202, 2014 (SCI-Expanded)
- XVII. **Effect of carnosine treatment on oxidative stress in serum, apoB-containing lipoproteins fraction and erythrocytes of aged rats**  
Aydin A. F., Kuskü-Kiraz Z., Dogru-Abbasoglu S., Uysal M.  
PHARMACOLOGICAL REPORTS, vol.62, no.4, pp.733-739, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The effect of vitamin D deficiency and 1,25(OH)2D3 treatment on oxidative stress and Nrf2-antioxidant signaling in ethanol-induced hepatotoxicity**  
Bingül I., Aydın A. F., Küçükgergin C., Doğan Ekici A. I., Abbasoğlu S., Uysal M.  
Archives of Clinical and Experimental Medicine, vol.6, no.3, pp.127-133, 2021 (Peer-Reviewed Journal)
- II. **VITAMIN D DEFICIENCY DID NOT AUGMENT THE PROGRESSION OF HIGH-FRUCTOSE-INDUCED NONALCOHOLIC FATTY LIVER DISEASE IN RATS**  
Bingul I., Kucukgergin C., Aydin A. F., Ekici I. D., Abbasoglu S. D., Uysal M.  
JOURNAL OF ISTANBUL FACULTY OF MEDICINE-ISTANBUL TIP FAKULTESI DERGISI, vol.84, no.3, pp.360-368, 2021 (ESCI)
- III. **Effect of  $\alpha$ -lipoic acid and N-acetylcysteine on liver oxidative stress, preneoplastic lesions induced by diethylnitrosamine plus high-fat diet**  
BAKİ A. M., VURAL P., AYDIN A. F., SOLUK TEKKEŞİN M., ABBASOĞLU S., UYSAL M. M.  
Archives of Clinical and Experimental Medicine, vol.6, pp.1-8, 2021 (Peer-Reviewed Journal)
- IV. **Effect of  $\alpha$ -Lipoic Acid/N-Acetylcysteine on Liver Oxidative Stress, Preneoplastic Lesions Induced By Diethylnitrosamine Plus High-Fat Diet**  
Baki A. M., Vural P., Aydın A. F., Soluk Tekkeşin M., Olgaç N. V., Abbasoğlu S., Uysal M.  
Hipokrat4-tam metin kitabı , no.1, pp.1-15, 2020 (Conference Book)
- V. **EFFECT OF DIETARY CURCUMIN ON OXIDANT-ANTIOXIDANT STATUS IN TESTIS TISSUES OF RATS FED A HIGH-FAT DIET**  
SEYİTHANOĞLU M., Tanrikulu Kucuk S., Oner Iyidogan Y., Kocak H., Mikailova P., Aydın A. F.  
JOURNAL OF ISTANBUL FACULTY OF MEDICINE-ISTANBUL TIP FAKULTESI DERGISI, vol.83, no.3, pp.247-253, 2020 (ESCI)
- VI. **Effects of  $\gamma$ -lipoic acid on oxidative stress parameters in experimental hyperthyroidism**  
BAKİ A. M., AYDIN A. F., VURAL P., SOLUK TEKKEŞİN M., ABBASOĞLU S., UYSAL M. M.  
Arch Clin Exp Med, no.3, pp.190-194, 2018 (Peer-Reviewed Journal)
- VII. **Association of leukotrichia in vitiligo and Asp148Glu polymorphism of apurinic/aprimidinic endonuclease 1 (APE1).**  
AYDIN A. F., Aydıngöz İ. E., ABBASOĞLU S., VURAL P., UYSAL M. M.  
international journal of trichinology, no.9, pp.171-176, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Cellular oxidative damage in congenital disorders of glycosylation**  
Ak B., Karaca M., Gedikbaşı A., Aydın A. F., Balcı M. C., Bilgin A., Körbeyli H. K., Durmuş A., Kılıç Ş., Gökçay G. F.  
SSIEM Annual Symposium 2023, Yerushalayim, Israel, 29 August - 01 September 2023, pp.745
- II. **Fluorometric Analysis and Validation of Tripeptidyl Peptidase-1 in Dry Blood Samples and Leukocytes in the Diagnosis of Neuronal Ceroid Lipofuscinosis 2**  
Teker B., Tatonyan S., Gedikbaşı A., Aydın A. F., Balcı M. C., Karaca M., Pempegül Yıldız E., Atalar F., Poda M., Gökçay G. F.  
VIII. Uluslararası Katılımlı Lizozomal Hastalıklar Kongresi, Bursa, Turkey, 3 - 07 May 2023, pp.64
- III. **Developing a diabetes management system integrated with salivary glucose sensors**  
SATMAN İ., ÖZTÜRK S., KARAHOCA A., GEZER M., ÇALIKOĞLU B. F., PALANDUZ A., KUBAT ÜZÜM A., HACIŞAHİNOĞULLARI H., AYDIN A. F., DENİZERİ GUY S. B., et al.  
25th European Congress of Endocrinology, İstanbul, Turkey, 13 May 2023, vol.90, pp.76-77
- IV. **ENDOMETRİUM KANSERİNDE SERUM HOXB-AS1 GEN EKSPRESYONUNUN ETKİSİ**  
Kılınç S., Bingül İ., Küçükgergin C., Minareci Y., Sözen H., Topuz S., Salihoğlu M. Y., Aydın A. F.  
Uluslararası Katılımlı XXIII. Ulusal Klinik Biyokimya Kongresi, Antalya, Turkey, 27 - 30 April 2023, pp.154
- V. **Fonksiyonel Dispepsili Hastalarda Pankreas Enzim Yetersizliğinin Etiyolojideki Yeri**

Kemik F., Ceylan G., Aydın A. F., Demir K.

XXIII. ULUSAL KLİNİK BİYOKİMYA KONGRESİ, Antalya, Turkey, 27 - 30 April 2023, pp.150

- VI. **Value of Bladder Epicheck in Patients Undergoing ReTUR-T in Non-Muscle Invasive Bladder Cancer**  
AYDIN A. F., YÜCETAŞ U., DEĞİRMENCİ M. E., ŞANLI M. Ö., ERDEM S., BİNGÜL İ., ERKAN E., ÖZCAN F., KÜÇÜKGERGİN C.  
12th Eurasian Uro-oncology Congress, Erzurum, Turkey, 01 September 2022
- VII. **Effect of  $\alpha$ -lipoic acid/N-acetylcysteine on liver oxidative stress, preneoplastic lesions induced by diethylnitrosamine plus high-fat diet**  
Baki A. M., Vural P., Aydın A. F., Soluk Tekkeşin M., Olgaç N. V., Abbasoğlu S., Uysal M.  
4th International Congress on Medical and Health Sciences, Antalya, Turkey, 25 - 26 September 2020, pp.93-95
- VIII. **Effect of  $\alpha$ -lipoic acid/N-acetylcysteine on liver oxidative stress, preneoplastic lesions induced by diethylnitrosamine plus high-fat diet**  
Baki A. M., Vural P., Aydın A. F., Soluk Tekkeşin M., Olgaç N. V., Abbasoğlu S., Uysal M.  
4th International Congress on Medical and Health Sciences, Antalya, Turkey, Antalya, Turkey, 25 - 26 September 2020, pp.99
- IX. **The effect of hydrogen sulfide in an experimental testicular torsion model**  
Yüksel S., Erginel B., Özlük M. Y., Bingül İ., Karatay H., Aydın A. F., Keskin E.  
20th Congress of the European Paediatric Surgeons' Association, Belgrade, Serbia, 12 - 15 June 2019, pp.108
- X. **Deneysel testis torsiyonu modelinde hidrojen sülfür etkinliğinin araştırılması**  
Yüksel S., Erginel B., Özlük M. Y., Bingül İ., Aydın A. F., Keskin E.  
10. Ulusal Pediatrik Üroloji Kongresi, Samsun, Turkey, 16 - 19 May 2019, no.20, pp.54
- XI. **Effects of  $\alpha$ -Lipoic Acid on Tissue Oxidative Stress Parameters in Experimental Hypothyroidism**  
BAKİ A. M., AYDIN A. F., VURAL P., SOLUK TEKKEŞİN M., OLGAÇ N. V., ABBASOĞLU S., UYSAL M. M.  
The 43rd FEBS Congress, Prague, Czech Republic, 2018, Prag, Czech Republic, 7 July - 12 September 2018
- XII. **Effects of  $\alpha$ -lipoic acid on tissue oxidative stress parameters in experimental hypothyroidism.**  
BAKİ A. M., AYDIN A. F., VURAL P., SOLUK TEKKEŞİN M., OLGAÇ N. V., ABBASOĞLU S., UYSAL M. M.  
The 43th FEBS Congress,, Prag, Czech Republic, 7 - 12 July 2018, vol.P.09-061, pp.61
- XIII. **The endothelin 1 and endothelin receptor A gene polymorphisms increase the risk of developing papillary thyroid carcinoma**  
VURAL P., AYDIN A. F., ABBASOĞLU S., ÇİL E., UYSAL M. M.  
29th World Congress of World Association of Societies of Pathology and Laboratory Medicine WASPALM2017, Kyoto, Japan, 15 - 18 November 2017
- XIV. **Deneysel hipertiroide  $\alpha$ -lipoik asidin kanda ve karaciger dokusunda oksidatif stres parametreleri üzerine etkisi**  
BAKİ A. M., AYDIN A. F., SOLUK TEKKEŞİN M., VURAL P., ABBASOĞLU S., OLGAÇ N. V., UYSAL M. M.  
Uluslararası Biyokimya Kongresi 2017, Erzurum, Turkey, 19 - 23 September 2017
- XV. **Resveratrolün metilglioksal uygulanan sıçanlarda glikasyon ve oksidasyon ürünleri üzerine etkisi.**  
Yılmaz Z., AYDIN A. F., KALAZ E. B., ABBASOĞLU S., UYSAL M. M., TOKER B. N.  
Uluslararası Katılımlı XVI. Klinik Biyokimya Kongresi & IATDMCT Regional Meeting, Aydın, Turkey, 5 - 08 May 2016, pp.98
- XVI. **Carnosine decreases glycation and oxidation products in rats with high-fat diet and streptozotocin-induced diabetic nephropathy**  
Abbasoğlu S., Aydın A. F., Küçükgergin C., Bingül İ., Uysal M.  
8 th World Congress on Diabetes&Obesity, Riga, Latvia, 02 June 2015
- XVII. **Yüksek yağlı diyet ve streptozotocin ile diyabet oluşturulan sıçanlarda karnozin ve metforminin karaciğer hasarı ve oksidatif stres üzerine etkilerinin incelenmesi.**  
Bingül İ., Aydın A. F., Küçükgergin C., Abbasoğlu S., Uysal M.  
XV. Ulusal Klinik Biyokimya Kongresi, Antalya, Turkey, 23 April 2015
- XVIII. **Endotelin Reseptör A (EDNRA) G-231A Polimorfizmi ve Tiroid Kanseri.**  
ABBASOĞLU S., AYDINGÖZ İ. E., AYDIN A. F., VURAL P., UYSAL M. M.  
XV. Ulusal Klinik Biyokimya Kongresi, Muğla, Turkey, 23 - 26 April 2015, pp.93

- XIX. **Vitiligoda "X-ray repair cross complementing group-1 (XRCC1) geni Arg399Gln polimorfizminin incelenmesi**  
ABBASOĞLU S., Aydınöz İ. E., AYDIN A. F., VURAL P., UYSAL M. M.  
XV. Ulusal Klinik Biyokimya Kongresi, Muğla, Turkey, 23 - 26 April 2015, pp.92
- XX. **Endotelin Reseptör A (EDNRA) G-231A Polimorfizmi ve Tiroid Kanseri**  
VURAL P., AYDIN A. F., ABBASOĞLU S., ÇİL E., UYSAL M. M.  
XV. Ulusal Klinik Biyokimya Kongresi, Muğla, Turkey, 23 - 26 April 2015, pp.93
- XXI. **Protective effect of heme oxygenase -1 against isoprenaline -induced myocardial infarction in rat**  
Özdemirler G., Bulut L., Küçükgergin C., Aydın A. F., Uysal M.  
13th Asia Pacific Federation for Clinical Chemistry National Congress. , Balikpapan, Indonesia, 26 October 2013
- XXII. **The effect of carnosine on oxidative stress parameters in different tissues of aged rats.**  
Aydın A. F., Küçükgergin C., Özdemirler G., Toker B. N., Uysal M.  
. III. International Congress of Molecular Medicine., İstanbul, Turkey, 05 May 2009

## Supported Projects

- DEMİR K., AYDIN A. F., KEMİK F., Project Supported by Higher Education Institutions, Fonksiyonel Dispepsili Hastalarda Pankreas Ekzokrin Yetersizliğinin Etiyolojideki Yeri, 2021 - Continues
- AYDIN A. F., HARISMUNANDAR R., Project Supported by Higher Education Institutions, Endometrium Kanseri Hastalarında HOTAIR ve miR646'nın Serum Düzeylerinin Tanısal ve Prognostik Öneminin Araştırılması, 2021 - Continues
- AYDINER A., KÜÇÜKGERGİN C., AYDIN A. F., AK N., Project Supported by Higher Education Institutions, Over kanserinde serum miRNA 214, 223 ve 181 düzeylerinin değerlendirilmesi: Tek merkezli pilot çalışma için MiRNA mikrodizi veri analizi, 2020 - Continues
- MURDAN R., SALİHOĞLU M. Y., KÜÇÜKGERGİN C., MİNARECİ Y., AYDIN A. F., Project Supported by Higher Education Institutions, Serum miR-200a, miR-200b ve miR-200c düzeylerinin over kanseri ile ilişkisi, 2020 - Continues
- SOYLU N., GÜLCÜ ÜSTÜN N. S., AYDIN A. F., Project Supported by Higher Education Institutions, Seperasyon Anksiyetesi Olan Çocukların ve Annelerinin Plazma Oksitosin Düzeyleri ve Tedavi Sonrası Anksiyetedeği Değişimle İlişkisinin İncelenmesi, 2020 - 2022
- KÜÇÜKGERGİN C., PAZIR Y., ÖZCAN F., BİNGÜL İ., AYDIN A. F., ERDEM S., DEĞİRMENCİ M. E., Project Supported by Higher Education Institutions, Kasa invaze olmayan mesane kanserinde mesane Epicheck testinin mesanenin yeniden rezeksiyonu kararını vermedeki rolü, 2019 - 2022
- BİNGÜL İ., AYDIN A. F., DOĞAN EKİCİ İ., ABBASOĞLU S., KÜÇÜKGERGİN C., Project Supported by Higher Education Institutions, Deneysel D vitamini eksikliğinin sıçanlarda alkolik ve alkolik olmayan steatoz/steatohepatit tablosu üzerine etkisinin incelenmesi, 2018 - 2021
- ABBASOĞLU S., BİNGÜL İ., KÜÇÜKGERGİN C., AYDIN A. F., ÇEVİK A., SOLUK TEKKEŞİN M., OLGAC N. V., Project Supported by Higher Education Institutions, Yüksek yağlı ve yüksek kolesterolü diyetle beslenen kobaylarda S-adenozilmetyonin uygulamasının oksidatif stres, hepatik ve aterosklerotik lezyonlar üzerine etkisinin incelenmesi, 2018 - 2021
- VURAL P., AYDIN A. F., ABBASOĞLU S., ÇİL E., UYSAL M., Project Supported by Higher Education Institutions, The endothelin 1 and endothelin receptor A gene polymorphisms increase the risk of developing papillary thyroid carcinoma, 2017 - 2017
- AYDIN A. F., Project Supported by Higher Education Institutions, Tiroid kanserli hastalarda endotelin 1 (EDN1) ve EDN1 reseptörü A (EDNRA) gen polimorfizmlerinin incelenmesi, 2014 - 2016
- ABBASOĞLU S., AYDIN A. F., KÜÇÜKGERGİN C., Project Supported by Higher Education Institutions, Betainin Deneysel Karaciğer Fibrozunda Oksidatif Stres, Sitokinler ve Ekstraselüler Matriks Proteinleri Üzerine Etkisinin İncelenmesi, 2014 - 2016
- AYDIN A. F., Project Supported by Higher Education Institutions, Hashimoto tiroiditi olgularında endotelin 1 (EDN1) ve endotelin reseptörü tip A (EDNRA) polimorfizmlerinin incelenmesi, 2014 - 2014

## **Metrics**

Publication: 46

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