

Prof. Dr. N. Nuray Uluşu

Personal Nationality: T.C.

Information Date of Birth: March 28, 1963

Place of Birth: Ankara, TURKEY



Present position: Professor of Biochemistry

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EXPERTISE & RESEARCH INTEREST:

Enzyme purification and characterization; enzyme kinetics; the factors effecting enzyme activity, inhibitors such as various metals, various natural substances, endocrine disruptors, drugs; oxidative stress; diabetes; aging; and biochemistry education.

Education:

Master of Science	09 / 10 / 1987	23 / 02 / 1990
Doctorate	15 / 10 / 1990	25 / 09 / 1996
Assistant Professor	07 / 01 / 2000	24 / 09 / 2003
Associate Professor		19 / 03 / 2003
Professor of Hacettepe University Faculty of	February, 2010- 1 November 2013	
Medicine		
Professor of Koç University School of	1 November 2013- present	
Medicine		

MASTERS, DOCTORATE AND THESIS**Doctorate Thesis**

Purification of glucose-6-phosphate dehydrogenase from bovine lens and kinetic and molecular properties

Master of Science Thesis

Purification of glutathione-S-transferase from human placenta and some properties

Professional Experience

1.11.2013-Present

Koç University School of Medicine Biochemistry Full Professor.

1987- 31.10.2013

Hacettepe University, Faculty of Medicine Department of Biochemistry Full Professor.

2011-2012

Near East University, Faculty of Medicine, Nicosia, Cyprus (Lecturer assignments for short periods for several times during the education year)

2010-2012

Near East University, Department of Nutrition and Dietetics, Nicosia, Cyprus (Lecturer assignments for short periods for several times during the education year)

2000-2010

Hacettepe University, Faculty of Dentistry (Lecturer).

1996-2003

Hacettepe University, Vocational School of Health Sciences; Medical Laboratory Techniques Medical Laboratory (Lecturer)

Professional Memberships:

Turkish Biochemical Society

The Protein Society

Alzheimer Association

International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)

Federation of European Biochemical Societies (FEBS)

Balkan Clinical Laboratory Federation (BCLF)

The European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)

The International Union of Biochemistry and Molecular Biology (IUBMB)

American Association for Clinical Chemistry (AACC)

The Society for Free Radical Research (SFRR)

Publications

1. Aydemir D, Surucu S, Basak AN, Uluslu NN. Evaluation of the Hematological and Serum Biochemistry Parameters in the Pre-Symptomatic and Symptomatic Stages of ALS Disease to Support Early Diagnosis and Prognosis Cells 2022, 11, 3569. <https://doi.org/10.3390/cells11223569>
2. Aydemir D, Uluslu NN. The possible importance of the antioxidants and oxidative stress metabolism in the emerging monkeypox disease: An opinion paper. Front Public Health. 2022 Oct 20; 10:1001666. doi: 10.3389/fpubh.2022.1001666
3. Aydemir D, Uluslu NN. An old mobbing story and COVID-19. Journal of Basic and Clinical Health Sciences, 2022;6(3):977-980. doi:10.30621/jbachs.1091295
4. Anapali M, Kaya-Dagistanli F, Akdemir AS, Aydemir D, Uluslu NN, Ulutin T, Uysal O, Tanriverdi G, Ozturk M. Combined resveratrol and vitamin D treatment ameliorate inflammation-related liver fibrosis, ER stress, and apoptosis in a high-fructose diet/streptozotocin-induced T2DM model. Histochem Cell Biol. 2022 Sep;158(3):279-296. doi: 10.1007/s00418-022-02131-y.
5. Tomruk A, Ozgur-Buyukatalay E, Ozturk GG, Uluslu NN. Short-term exposure to radiofrequency radiation and metabolic enzymes' activities during pregnancy and prenatal development. Electromagn Biol Med. 2022 Jul 29;1-9. doi: 10.1080/15368378.2022.2104309.
6. Aydemir D, Eren I, Demirhan M, Uluslu NN. Evaluation of the Cell Behavior and Growth Characteristics of the Porcine Dermal Xenograft Patch in Relation to the Surface Properties. Front Bioeng Biotechnol. 2022 May 30;10:811446. doi: 10.3389/fbioe.2022.811446. PMID: 35706504; PMCID: PMC9189373.
7. Aydemir D, Malik AN, Kulac I, Basak AN, Lazoglu I, Uluslu NN. Impact of the Amyotrophic Lateral Sclerosis Disease on the Biomechanical Properties and Oxidative Stress Metabolism of the Lung Tissue Correlated with the Human Mutant SOD1G93A Protein Accumulation. Front Bioeng Biotechnol. 2022 Feb 25;10:810243. doi: 10.3389/fbioe.2022.810243.
8. Celebi G, Anapali M, Dagistanli FK, Akdemir AS, Aydemir D, Uluslu NN, Ulutin T, Komurcu-Bayrak E. Effect of vitamin D supplementation on OPG/RANKL signaling activities in

endothelial tissue damage in diet-induced diabetic rat model. Pharmacol Rep. 2022 Feb;74(1):124-134. doi: 10.1007/s43440-021-00332-1.

9. Aydemir D, **Ulusu NN**. Correspondence: Importance of the validated serum biochemistry and hemogram parameters for rapid diagnosis and to prevent false negative results during COVID-19 pandemic. Biotechnol Appl Biochem. 2021 Apr;68(2):390-391. doi: 10.1002/bab.1936.
10. Aydemir D, Salman N, Karimzadehkhoei M, Alaca BE, Turan B, **Ulusu NN**. Evaluation of the Effects of Aging on the Aorta Stiffness in Relation with Mineral and Trace Element Levels: an Optimized Method via Custom-Built Stretcher Device. Biol Trace Elem Res. 2021 Jul;199(7):2644-2652. doi: 10.1007/s12011-020-02380-9.
11. Aydemir D, **Ulusu NN**. People with blood disorders can be more vulnerable during COVID-19 pandemic: A hypothesis paper. Transfus Apher Sci. 2021 Jun;60(3):103080. doi: 10.1016/j.transci.2021.103080.
12. Ozcan M, Aydemir D, Bacanlı M, Anlar HG, **Ulusu NN**, Aksoy Y. Protective Effects of Antioxidant Chlorophyllin in Chemically Induced Breast Cancer Model In vivo. Biol Trace Elem Res. 2021 Feb 24. doi: 10.1007/s12011-021-02585-6.
13. Aydemir D, Dağlıoğlu G, Candevir A, Kurtaran B, Bozdogan ST, Inal TC, **Ulusu NN**. COVID-19 may enhance risk of thrombosis and hemolysis in the G6PD deficient patients. Nucleosides Nucleotides Nucleic Acids. 2021;40(5):505-517. doi: 10.1080/15257770.2021.1897457.
14. Aydemir D, Dogru S, Alaca BE **Ulusu NN**. Impact of the surface modifications and cell culture techniques on the biomechanical properties of PDMS in relation to cell growth behavior. International Journal of Polymeric Materials and Polymeric Biomaterials 2021 International Journal of Polymeric Materials and Polymeric Biomaterials DOI: 10.1080/00914037.2021.1919670
15. Aydemir D, **Ulusu NN**. Is glucose-6-phosphate dehydrogenase enzyme deficiency a factor in Coronavirus-19 (COVID-19) infections and deaths? Pathog Glob Health. 2020 May;114(3):109-110. doi: 10.1080/20477724.2020.1751388. Epub 2020 Apr 14. PMID: 32286926; PMCID: PMC7241485.

16. Dogru S, Aydemir D, Salman N, **Ulus N**, Alaca BE. Impact of PDMS surface treatment in cell-mechanics applications. *J Mech Behav Biomed Mater*. 2020 Mar;103:103538. doi: 10.1016/j.jmbbm.2019.103538. Epub 2019 Nov 15. PMID: 31760274.

17. Aydemir D, **Ulus N**. Commentary: Challenges for PhD students during COVID-19 pandemic: Turning crisis into an opportunity. *Biochem Mol Biol Educ*. 2020 Sep;48(5):428-429. doi: 10.1002/bmb.21351. Epub 2020 Apr 9. PMID: 32271978; PMCID: PMC7262270.

18. Samadi A, Ziaee M, Isikhan SY, **Ulus N**, Samadi M. Effects of treatment with haloperidol and clozapine on the plasma concentrations of thyroid hormones in rats. *Endocr Regul*. 2020 Apr 1;54(2):71-76. doi: 10.2478/enr-2020-0009. PMID: 32597158.

19. Aydemir D, **Ulus N**. Correspondence: Angiotensin-converting enzyme 2 coated nanoparticles containing respiratory masks, chewing gums and nasal filters may be used for protection against COVID-19 infection. *Travel Med Infect Dis*. 2020 Sep-Oct;37:101697. doi: 10.1016/j.tmaid.2020.101697. Epub 2020 Apr 23. PMID: 32335209; PMCID: PMC7195061.

20. Aydemir D, **Ulus N**. Influence of Lifestyle Parameters - Dietary Habit, Chronic Stress and Environmental Factors, Jobs - on the Human Health in Relation to the COVID-19 Pandemic. *Disaster Med Public Health Prep*. 2020 Jun;14(3):e36-e37. doi: 10.1017/dmp.2020.222. Epub 2020 Jun 25. PMID: 32580815; PMCID: PMC7387745.

21. Aydemir D, Simsek G, **Ulus N**. Dataset of the analyzing trace elements and minerals via ICP-MS: Method validation for the mammalian tissue and serum samples. *Data Brief*. 2020 Feb 3;29:105218. doi: 10.1016/j.dib.2020.105218. PMID: 32071990; PMCID: PMC7016227.

22. Aydemir D, Hashemkhani M, Acar HY, **Ulus N**. Evaluation of the biocompatibility of the GSH-coated Ag2S quantum dots in vitro: a perfect example for the non-toxic optical probes. *Mol Biol Rep*. 2020 Jun;47(6):4117-4129. doi: 10.1007/s11033-020-05522-3. Epub 2020 May 20. PMID: 32436042.

23. Aydemir D, **Ulusu NN**. Comment on the: Molecular mechanism of CAT and SOD activity change under MPA-CdTe quantum dots induced oxidative stress in the mouse primary hepatocytes (Spectrochim Acta A Mol Biomol Spectrosc. 2019 Sep 5; 220:117104). Spectrochim Acta A Mol Biomol Spectrosc. 2020 Mar 15;229:117792. doi: 10.1016/j.saa.2019.117792. Epub 2019 Dec 14. PMID: 31865110.
24. Aydemir D, **Ulusu NN**. Importance of the serum biochemical parameters as potential biomarkers for rapid diagnosis and evaluating preclinical stage of ALS. Med Hypotheses. 2020 Aug;141:109736. doi: 10.1016/j.mehy.2020.109736. Epub 2020 Apr 13. PMID: 32315925.
25. Aydemir D, **Ulusu NN**. The role of biotin metabolism in the COVID-19 infection. Turkish Journal of Biochemistry. Turkish Journal of Biochemistry-Turk Biyokimya Dergisi Volume: 45 Issue: 6 Pages: 671-672 DOI: 10.1515/tjb-2020-0231 DEC 2020
26. Aydemir D, **Ulusu NN**. Impact of COVID-19 pandemic on academic research and being demotivated. Anadolu Psikiyatri Dergisi-Anatolian Journal of Psychiatry Volume: 21 Issue: 6 Pages: 666-666 DEC 2020
27. Aydemir D, **Ulusu NN**. Commentary: Challenges for PhD students during COVID-19 pandemic: Turning crisis into an opportunity. Biochemistry and Molecular Biology Education Volume: 48 Issue: 5 Pages: 428-429 Special Issue: SI DOI: 10.1002/bmb.21351 Published: SEP 2020
28. Aydemir D, **Ulusu NN** Are Angiotensin II receptor blockers for hypertension a gleam of hope or not against COVID-19 infection?" to Journal of Basic and Clinical Health Sciences Volume: 4 Issue: 3 Pages: 394-396. 2020. DOI: 10.30621/jbachs.2020.1153
29. Aydemir D, **Ulusu NN**. The possible role of the glucose-6-phosphate dehydrogenase enzyme deficiency in the polyneuropathies" Journal of Basic and Clinical Health Sciences Volume: 4 Issue: 3 Pages: 212-217. 2020. DOI: 10.30621/jbachs.2020.1151
30. Aydemir D, **Ulusu NN**. Influence of the life style parameters including dietary habit, chronic stress and environmental factors and jobs on the human health in relation to COVID-19 pandemic. Disaster Med Public Health Prep. 2020 Jun 25;1-4. doi: 10.1017/dmp.2020.222.

31. Aydemir D, Oztascı B, Barlas N, **Ulus N**. Influence of the butylparaben administration on the liver, kidney and spleen. Turkish Journal of Biochemistry-Turk Biyokimya Dergisi Volume: 4 Issue: 6 Pages: 689-694 Published: DEC 2020 Doi.10.1515/tjb-2020-0048 Published online: 27 Jul 2020
32. Aydemir D, Gecili F, Ozdemir N, **Ulus N**. Synthesis and characterization of a triple enzyme-inorganic hybrid nanoflower (TrpE@ihNF) as a combination of three pancreatic digestive enzymes amylase, protease and lipase. Journal of Bioscience and Bioengineering Volume 129, Issue 6, June 2020, Pages 679-686 DOI: 10.1016/j.jbiosc.2020.01.008
33. Aydemir D, **Ulus N**. Identifying and solving scientific problems in the medicine: Key to become a competent scientist. Turkish Journal of Biochemistry Volume 45, Issue 2, April 2020 DOI: 10.1515/tjb-2018-0357
34. Aydemir D, Sarayloo E, **Ulus N**. Rosiglitazone-induced changes in the oxidative stress metabolism and fatty acid composition in relation with trace element status in the primary adipocytes. J Med Biochem 39: 3, 267-275, 2020. DOI: 10.2478/jomb-2019-0041
35. Aydemir D, Oztascı B, Barlas N, **Ulus N**. Effects of the butylparaben on the glutathione-dependent and -independent anti-oxidant enzyme metabolisms" Archives of Industrial Hygiene and Toxicology, Vol. 70 No. 4, 2019 315-324.
36. Aydemir D, Hashemkhani M, Acar HY, **Ulus N**. In vitro interaction of glutathione S-transferase-pi enzyme with glutathione-coated silver sulfide quantum dots: A novel method for biodetection of glutathione S-transferase enzyme. Chem Biol Drug Des. 2019 Dec;94(6):2094-2102. doi: 10.1111/cbdd.13614
37. Aydemir D, Karabulut G, Şimşek G, Gok M, Barlas N, **Ulus N**. Data the DEHP induced changes on the trace element and mineral levels in the brain and testis tissues of rats. Data in Brief Volume: 26, 104526, p 1-7, 2019. DOI: 10.1016/j.dib.2019.104526

38. Kayadibi H, Yapar D, Akdogan O, **Ulus N**, Baykam N. Title: Diagnostic utility of Hitit index to distinguish patients with and without Crimean Congo Hemorrhagic fever disease. Ticks and Tick-Borne Diseases Volume 10, Issue 5, August 2019, Pages 1035-1040.
39. Aydemir D, Hashemkhani M, Durmusoglu EG, Yagci Acar H, **Ulus N**. A new substrate for glutathione reductase: Glutathione coated Ag₂S quantum dots. Talanta 194, 501-506, 2019.
40. **Ulus N**, Gok M, Erman B, Turan B. The Effects of Timolol Treatment on Streptozotocin-Induced Diabetic Rats Pancreatic enzymes: An Experimental and Computational Study. J Med Biochem 38: 1–11, 2019.
41. Aydemir D, Karabulut G, Şimşek G, Gok M, Barlas N, **Ulus N**. Impact of the Di(2-Ethylhexyl) Phthalate Administration on Trace Element and Mineral Levels in Relation of Kidney and Liver Damage in Rats. Biol Trace Elem Res. 2018 Dec;186(2):474-488. doi: 10.1007/s12011-018-1331-0. Epub 2018 Apr 13.
42. Bulbul MC, Dagel T, **Ulus N**, Afsar B, Covic A, Kanbay M. Disorders of Lipid Metabolism in Chronic Kidney Disease. Blood Purif. 2018;46(2):144-152. doi: 10.1159/000488816. Epub 2018 Apr 27.
43. Samadi A, Khademansari, MH, **Ulus N**. Effects of alprazolam and haloperidol on thyroglobulin, antithyroglobulin, anti-thyroid peroxidase and TSH in Rat. Turk J Biochem 2018; 43(1): 57–63. DOI: <https://doi.org/10.1515/tjb-2017-0003>
44. **Ulus N**, Gok M, Sakul AAS, Arı N, Stefek M, Karasu C. Antioxidant SMe1EC2 Modulates Pentose Phosphate Pathway and Glutathione-Dependent Enzyme Activities in Tissues of Aged Diabetic Rats. Interdiscip Toxicol. 2017; Vol. 10(4): 148–154. doi: 10.1515/intox-2017-0021
45. **Ulus N**. Possible mechanisms of transmissible cancers in Tasmanian devils. Turk J Biochem 2017; 42(2): 241–244. DOI: <https://doi.org/10.1515/tjb-2017-0022>
46. Erbayraktar Z, Evlice A, Yener G, **Ulus N**. Effects of donepezil on liver and kidney functions for the treatment of Alzheimer's disease. J Integr Neurosci.16: 335–346. (2017) DOI

47. Evlice A, **Ulus N**. Glucose-6-phosphate dehydrogenase a novel hope on a blood-based diagnosis of Alzheimer's disease. *Acta Neurol Belg* (2017) 117:229–234. Doi.10.1007/s13760-016-0666-6
48. Erbayraktar Z, Evlice A, Yılmaz G, Yazıcı C, Yener G, **Ulus N**. Evaluation of Renal Function in Alzheimer's disease and Geriatric Patients: Results from a Turkish Two-Center Study. *J. Med. Biochem*. 36, 1, 54-61, 2017. doi: <https://doi.org/10.1515/jomb-2016-0028>
49. **Ulus N**. Cornerstones of biochemistry in stamps. *Turkish Journal of Biochemistry*. Volume 41 Issue 541 (5): 373–376, 2016.
50. Erten-İşeri ÖS, Dikmen ZG, **Ulus N**. Comparison of spectrophotometric and fluorimetric methods in evaluation of biotinidase deficiency. *J. Med. Biochem* 35: 2 123- 129, 2016.
51. Gök M, **Ulus N**, Tarhan N, Tufan C, Özansoy G, Arı N, Karasu C. Flax seed protects against glucotoxicity: Amelioration of pentose phosphate pathway and glutathione-dependent enzyme activities in the brain, lung, pancreas and eye-lens of STZ-diabetic rats. *J Diet Suppl*. 13(3):339-51 2016.
52. **Ulus N**, Yılmaz G, Erbayraktar Z, Evlice A, Aras S, Yener G, Avcı A. Turkish Three-Centre Study Evaluation of Serum Folic Acid and Vitamin B12 Levels in Alzheimer's Disease. *Turk J Med Sci* 45: 5 Special Issue: 1159-1166, 2015.
53. **Ulus N**. Glucose-6-phosphate dehydrogenase deficiency and Alzheimer's disease: Partners in crime? The hypothesis. *Med Hypotheses*. Aug; 11;85(2) 219-223, 2015.
54. **Ulus N**. Curious Cases of the Enzymes. *J Med Biochem* 2015; 34 (3) 271-281, 2015.
55. **Ulus N**, Yılmaz G, Erbayraktar Z, Evlice A, Genç M, Aras S, Avcı A, Yener G. A Comparative Study on Thyroid Function in Alzheimer's Disease: Results from a Turkish Multi-Centre Study. *Journal of J Neurol Sci Turk*, 32(2): 335-47, 2015.
56. **Ulus N**. Evolution of Enzyme Kinetic Mechanisms. *Journal of Molecular Evolution*. Jun; 80

57. Gokturk H, **Ulus N**, Gok M, Tuncay E, Can B, Turan B. Long-term treatment with a beta-blocker timolol attenuates renal-damage in diabetic rats via enhancing kidney antioxidant defense system. *Molecular and Cellular Biochemistry Mol Cell Biochem*. Volume 395, Issue 1-2, pp 177-186, 2014.
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61. Tandogan B, Güvenç A, Çalış I, **Ulus N**. In vitro effects of compounds isolated from *Sideritis brevisbracteata* on bovine kidney cortex glutathione reductase. *Acta Biochim Pol*;58 (4):471-5, 2011.
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64. Karaman K, Tirnaksiz MB, **Ulus N**, Dincer N, Sener B, Gulmez D, Tandogan B, Sokmensuer C, Sayek I Effects of dexamethasone on ischemia reperfusion injury following pringle maneuver. *Hepatogastroenterology*. Mar-Apr;58(106):465-71, 2011.
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67. Tandogan B, **Ulusu NN**. Inhibition of purified bovine liver glutathione reductase with some metal ions Journal of Enzyme Inhibition and Medicinal Chemistry 25: 1 68-73 FEB, 2010.
68. Tandogan B, **Ulusu NN**. Comparative in vitro effects of some metal ions on bovine kidney cortex glutathione reductase. Prep Biochem Biotechnol. Oct;40(4):405-11, 2010.
69. Ozdemir S, Tandogan B, **Ulusu NN**, Turan B. Angiotensin II Receptor Blockage Prevents Diabetes-Induced Oxidative Damage in Rat Heart. Folia Biologica 55: 1 11-16, 2009.
70. **Ulusu NN**, Tandogan B, Türkoğlu MA, Demirer S. Is it useful to determine glutathione peroxidase and thioredoxin reductase activities for comparisons of malign and benign breast diseases? Turkish Journal of Biochemistry. 34: 3 187-194 2009.
71. **Ulusu NN**. Possible effect of calcium in the formation of stress granules. Stres granülleri oluşumunda kalsiyumun olası rolü. Turkish Journal of Biochemistry. 34 (1); 51–52. 2009.
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73. Şengezer C, **Ulusu NN**. Three different purification protocols in purification of G6PD from sheep brain cortex. Glukoz-6-Fosfat dehidrogenazın üç farklı yöntemle beyin korteksinden saflaştırılması FABAD J. Pharm. Sci. 32(2) 65-72, 2007.
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- bovine liver. Mol Cell Biochem. Sep; 303(1–2):45–51, 2007.
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104. Turan B, Açıan NL, Ulusu NN, Tezcan EF. A comparative study on effect of dietary selenium and vitamin e on some antioxidant enzyme activities of liver and brain tissues. *Biological Trace Element Research*, Aug 81, (2): 141-152, 2001.

105. **Ulusu NN**, Tezcan EF. Cold Shock Proteins. Turkish Journal of Medical Sciences 31 283–290, 2001.
106. **Ulusu NN**, Aan NL, Turan B, Tezcan EF. The effect of selenium on glutathione redox cycle enzymes of some rabbit tissues. Trace Elements and Electrolytes, 17, 25-29, 2000.
107. **Ulusu NN**, Kuş MS, Aan NL, Tezcan EF. A rapid method for the purification of glucose-6-phosphate dehydrogenase from bovine lens. The International Journal of Biochemistry and Cell Biology, 31, 787-796, 1999.
108. Sakar MK, Ercil D, **Ulusu NN**, Tamer AU, Şahin N, Tezcan EF. Antimicrobial activities of *Abies nordmanniana* ssp. *bornmuelleriana* extracts and their inhibitory effects on 5-lipoxygenase. Hacettepe University Journal of Faculty of Pharmacy 18 (2): 57–61 1998.
109. **Ulusu NN**, Kuş MS, Tezcan EF. 'Glucose-6-phosphate dehydrogenase: Molecular and kinetic properties' Glucose Glukoz-6-fosfat dehidrogenaz. Biyokimya D 2 (22): 25–33, 1997.
110. **Ulusu NN**, Ozer N. Purification of glutathione-S-transferase from human placenta Doğa-Tr. Medical Sciences, 15: 152–153, 1991
111. Gürgen T, Günalp S, **Ulusu NN**, Alpay M, Tezcan EF. Amniotic fluid lecithin-sphingomyelin ratios in pregnancies with an anencephalic fetus. Hacettepe Medical J 22: 295–9, 1989.

Projects:

Three applied projects:

1. We applied for a 1001 TUBITAK project entitled “Production of complex shaped titanium and zirconium oxide based ceramic composites containing metal borides, their microstructural/mechanical characterizations and investigation of biomedical applications” with Koc University Faculty of Science (İsmail Lazoğlu, Mehmet Somer, Özge Balcı, N. Nuray Ulusu, Duygu Aydemir).

2. We applied for a European Society for Surgery of the shoulder and elbow (SECEC) Collaborators: Me, Prof. Dr. Mehmet Demirhan, Yar. Doç. Dr. İlker Eren, Duygu Aydemir.

3. Dokuz Eylül BAP projesi: Journal of Basic and Clinical Health Sciences (BACHS) dergisi covid-19 pandemisi özel sayısı ve online kongre gerçekleştirme projesi

INDUSTRIAL PROJECTS

1. “Investigation of the anti-microbial properties of the triple enzyme-inorganic hybrid nanoflowers (TrpE@ihNFs) in comparison with chitosan”

Duygu Aydemir, Seda Çakır, N. Nuray Ulusu

Nanoflowers are recently developed flower-shaped nanoparticles consisting of several layers of petals to improve surface reaction and stability. Among them organic-inorganic hybrid nanoflowers have been spotlighted, since they can overcome enzyme-related limitations including low stability, high production cost, substrate/product inhibition and difficult recovery. In this study, for the first time, triple enzyme-inorganic hybrid nanoflowers (TrpE@ihNFs) were synthesized using a mixture of three enzymes (α -amylase, lipase and protease) and Cu^{2+} ions. TrpE@ihNFs were characterized by their morphology and chemical point of view by using different techniques including SEM, FTIR, EDX, and XRD. Afterwards, we compared enzyme activity and stability of TrpE@ihNFs with the free enzymes including lipase, amylase and protease at different pH and temperatures spectrophotometrically. Our data have revealed that enzyme activities and stability of TrpE@ihNFs were significantly higher compared to each free enzyme. In conclusion, first time we showed TrpE@ihNFs in the literature that can be used for the treatment of wastewater, biosensors, biocatalysts, and bio-related devices in the future. Now we are investigating the anti-microbial

properties of TrpE@ihNFs in comparison with chitosan to use the wastewater treatment.

Industrial Company:

Biyopol Arge (<https://entertech.com.tr/firmalar/biyoteknoloji/biyopol-polimer-teknolojisi-arage-san-ve-tic-ltd-sti/en/>)

2. “Investigation of chitosan on the wound healing in relation to the oxidative stress metabolism”

Duygu Aydemir, Seda Çakır, N. Nuray Ulusu

There are different types of wounds and every type of wound have different healing requirements. Biomaterials have specific characteristics therefore they induce different molecular and cellular signaling mechanisms in wound healing which are still poorly understood. In our project we aimed to investigate impact of the chitosan on the wound healing in relation to oxidative stress metabolism in vitro.

Industrial Company:

Biyopol Arge (<https://entertech.com.tr/firmalar/biyoteknoloji/biyopol-polimer-teknolojisi-arage-san-ve-tic-ltd-sti/en/>)

3. Development of spectrophotometric kits for enzymes involving in the pentose phosphate pathway and oxidative stress metabolism

Duygu Aydemir, N Nuray Ulusu

G6PD and 6-PGD enzymes are mainly responsible for the production of NADPH which involves in the enzymatic reaction of GR. GR, GST, and GPx enzymes are glutathione-dependent enzymes and are involved in the detoxification metabolism of the xenobiotics. On the other hand, glutathione is the major anti-oxidant molecule in the organisms and GSH/GSSG ratio is considered as a biomarker for oxidative stress. GSH is the desired form of glutathione molecule and GSH must be converted to the GSH form to fight against oxidative stress in the biological environments. We have developed kits for the detection of the G6PD, 6-PGD, GR and GST enzymes.

Company: We are still in touch with several companies.

Ongoing projects:

1. Istanbul university BAP “Influence of the resveratrol and vitamin D treatment on the pancreas of the streptozotocin and fructose-induced rats”

2. Prof. Dr. Zubeyde Erbayraktar, Prof. Dr. Nuriye Nuray Uluşu, Prof. Dr. Serhat Erbayraktar, Duygu Aydemir. Dokuz Eylül University Department of Scientific Research Projects. Proteomic and mitochondrial genomic analysis of by comparative study of predictive, diagnostic, therapeutic and prognostic biomarkers panels in brain tumors. Starting date: 12.11.2017 (3 years). Dokuz Eylül Üniversitesi ile ortak proje. Bilimsel araştırmalar koordinasyon birimi. Beyin Tümörlerinde prediktif, diyagnostik, terapotik ve prognostik biyobelirteç panellerinin proteomik ve mitokondriyal genomik analizler ile karşılaştırmalı araştırılması. Starting date: 12.11.2017 (3 years)
3. Prof. Dr. Ayşe Nazlı Başak, Prof. Dr. N. Nuray Uluşu, Prof. Dr. Kemal Turker, Prof. Dr. Selcuk Surucu, Duygu Aydemir, Betilay Topkara, M. Gökem Özyurt. Investigation of Biochemical biomarkers in Amyotrophic lateral sclerosis disease with the SOD1 mutations rat model. Starting date: 8.10.2017 (2 years)
4. Doç. Dr. Fatma Dağıstanlı, Prof. Dr. Nuriye Nuray Uluşu, Merve Anapalı, Gamze Tanrıverdi, Duygu Aydemir, Turgut Uluşu, Ayşe Seda Akdemir. Influence of the resveratrol and vitamin D treatment on the pancreas of the streptozotocin and fructose-induced rats. Project Number: TSA-2019-32274.
5. Turkey Scientific and Technological Institution (TUBITAK) Joint project Targeting molecular pathways of glycolipotoxicity by a novel carboxymethylated mercaptotriazinoindole inhibitor of aldo-keto reductase in diabetes, inflammation and age-related neurodegeneration Researcher Project number: 215S197 '215S197' numaralı 'Diyabet, İnflamasyon ve Yaşa Bağlı Nörodejenerasyonda Gliko-Lipotoksisitenin Moleküler Yollarının Karboksimetillenmiş Merkaptotriazinoindolik Yeni Aldo-Keto Redüktaz (AKR1B1) İnhibitörleri İle Hedeflenmesi' Starting date: 1-12.2015 (3 years)
6. Dr. Emrah Aydın, Duygu Aydemir, Nilhan Torlak Identifying early markers to show kidney damage in prenatal diagnosed hydronephrosis
7. Prof. Dr. Hülya Cabadak, Dr. Banu Aydın, Duygu Aydemir Marmara University Drug and enzyme activities in cell culture

8. Prof. Dr. Yasemin Aksoy, Mehmet Ozcan, Duygu Aydemir.with Hacettepe University *In vivo* protective effects of antioxidant chlorophyllin in chemically induced breast cancer model
9. Prof. Dr. Belma Turan Ankara University Two projects: Biochemistry of Metabolic Disorders and Biochemistry of Aging
10. Prof. Dr. Barış İshak Marmara University Department of Neurology Investigation of the effect of Nusinersen use on functional status and biomarkers in adult spinal muscular atrophy patients
11. Prof. Dr. Filiz Koç Çukurova University Department of Neurology Spinal muscular atrophy patients and oxidative stress
12. Prof. Dr. Mehmet Somer, Özge Balci, Duygu Aydemir. Biochemistry of FeB particles
13. Ege University Research Information System Biochemistry department Prof. Dr. Şenay Şanlıer Biochemistry of GBM
14. Istanbul University Department of Endocrinology Dr. Hande Mefkure Ozkaya Biochemistry of Acromegaly
15. Izmir Technology of Institute IZTECH Department of Chemistry Dr. Sedef Tamburacı, Prof. Dr. Funda Tihminlioğlu, Dr. Duygu Aydemir Chitosan Biochemistry of biomaterials.

Completed projects:

16. Komisyon Kararı: Dr.Öğr.Üyesi FATMA DAĞISTANLI tarafından yürütülen TSA-2019-32274 nolu ve "Fruktoz ve Streptozotocin ile oluşturulan diyabet modelinde resveratrol ve vitamin D tedavisinin pankreas üzerine etkisi" başlıklı Normal Araştırma Projesi kapsamında sunulan sonuç raporunun kabul edilerek proje çalışmasının kapatılmasına, oy birliği ile karar verilmiştir.

Proje ID:32274

Proje Başlığı: Fruktoz ve Streptozotocin ile oluşturulan diyabet modelinde resveratrol ve vitamin D

tedavisinin pankreas üzerine etkisi Proje Türü:Normal Araştırma Projesi Proje Grubu:Tıp Sağlık
Projenin Başlama Tarihi:25.02.2019 Projenin Kapanma Tarihi:22.12.2021

17. Hacettepe University Scientific and Research Project: Comparison Fluorometric and the spectrophotometric method of assessing the biotinidase enzyme deficiency Project number 013 D10 101 005.
18. Hacettepe University Scientific and Research Project: Renewal of Enzymology Laboratory for Protein Purification and Identification 02 G085 Position in the project: Scientist
19. Hacettepe University Scientific and Research Project Proje başlığı: Glukoz-6-fosfat dehidrogenazın koyun beyininden saflaştırılması ve bazı özelliklerinin saptanması Project Proje no: 09D05101001 Leader: Prof. Dr. N.Nuray Ulusu
20. The Scientific and Technological Research Council of Turkey (SBAG-AYD-75) 'Purification of glucose-6-phosphate dehydrogenase from bovine lens and determination of its molecular and kinetic properties. Project Leader: Prof. Dr. E. Ferhan Tezcan Position in the project: Scientist.
21. Hacettepe University Scientific and Research Project (9601 101 011) 'Effect of dietary selenium and vitamin E on some antioxidant enzyme activities in various tissues. Project Leader: Prof. Dr. E. Ferhan Tezcan Position in the project: Scientist.
22. A comparative study; one molecule two enzymes from various sources. Project Leader: Prof. Dr. N.Nuray Ulusu This project was supported by Dr. Feridun Frik.
23. Proje Başlığı: In vitro effects of Imatinib on Purified glutathione reductase and glucose-6-phosphate dehydrogenase. Project Leader: Prof.Dr. N.Nuray Ulusu Novartis Pharma AG, Basel, Switzerland was supported imatinib.
24. Hacettepe University Scientific and Research Project: Vitamin E to prevent harmful effects of toluene. Project Leader: Ali Rıza Tümer Proje No: 05D02101004. Position in the project: Scientist.
25. Hacettepe University Scientific and Research Project: Molecular and Kinetic Properties of

Bovine Kidney Cortex of Glutathione Reductase. Project Leader: Assoc. Prof. Dr. N.Nuray Uluşu

26. The Scientific and Technological Research Council of Turkey. Blokage antioxidant and aldose reductase in diabetic complication prevention of delay: study on piridoindol Derivatives SBAG-Slovak-2 (103S180)6. Project Leader: Prof.Dr. Çimen Karasu. Position in the project: Scientist
27. Ankara University Scientific Research Project. Antioxidants in the prevention of diabetes complications: 2001.08.03.031 Project Leader: Prof. Dr. Nuray Arı. Position in the project: Scientist
28. The University of Hacettepe Scientific and Research Development Office Number: 00 02 101 012. Calcium ATPase activities sacs associated with inguinal hernia, hydrocele or undescended testis Project Leader: Assoc. Prof. Dr. N. Nuray Uluşu.
29. The Scientific and Technological Research Council of Turkey. Effects of antioxidants and inhibition of aldose reductase enzyme in Diabetes-Induced Complications and New studies on the compounds of piridoindol. Project Leader. Prof. Dr. Çimen Karasu. Position in the project: Scientist

Ongoing researches:

1. Prof. Dr. Claudiu T. Supuran

Dr. Fabrizio Carta

University of Florence

NEUROFARBA Department

Via Ugo Schiff 6,

Polo Scientifico,

50019 - Sesto Fiorentino (Firenze)

Italy https://www.unipage.net/en/501/university_of_florence

Topic: Investigate the effects of various Carbonic anhydrases inhibitors and activators on various cell lines and investigate the effects of these molecules on oxidative stress metabolism enzymes in the cytosol and Mitochondria and electron transport chain complexes (1-5) and trace element and mineral levels in both cytosol and mitochondria

2. Yoshihiro Suzuki-Karasaki, PhD

Fellow of the Royal Society of Medicine (FRSM)

Representative Director

Plasma ChemiBio Laboratory

398-4 Takaatsu, Nasushiobara, Tochigi 329-2813, JAPAN

Topic: Preparation of cells or animal experiments with Plasma-stimulated medium (PSM) and investigate the effects of PSM on;

- Oxidative stress metabolism in the cytosol and mitochondria

- Electron transport chain complexes (1-5)

- Trace element and mineral levels in both cytosol and mitochondria

- I. Endokrin disruptors: Detoxification and oxidative stress enzymes were measured to evaluate organ damage upon endocrine disruptor's administration, Trace elements in serum and organs and histopathologic investigation of organs Collaboration with Prof Dr. Nurhayat Barlas

3. Phthalates (DEHP)

Plasticizer

4. Bisphenol A (BPA)

Plasticizer

5. Dicchlorodiphenyltrichloroethane (DDT)

Insecticide

6. Nonyl-phenol and octyl-phenol Househol detergents and pesticides
7. Methoxychlor Pesticide
8. Targeting molecular pathways glycolipotoxicity by a novel carboxymethylated mercaptotrizinoindole inhibitor of aldo-keto reductase AKR1B1 in diabetes (TUBITAK Joint project)
9. Brain Tumor comparative research (Dokuz Eylul University) Collaboration with Prof Dr. Zübeyde Erbayraktar
10. Effect of resveratrol and vitamin D treatment on fructose and streptozotocin induced diabetes model on various tissues. Collaboration with Assoc. Prof. Dr. Fatma Kaya Dağistanlı
11. Amyotrophic lateral sclerosis with the SOD1 mutations rat model Collaboration with Prof. Dr. Nazlı Başak and Prof. Dr. Kemal Türker; Bogaziçi University and Koç University Faculty of Medicine Department of Physiology,
12. Research on fatty acids Collaboration with Professor Dr. Can Erkey
13. Research on PDMS Collaboration Assoc. Dr. Erdem Alaca
14. Research on Quantum Dot studies Collaboration with Assoc.Dr. Funda Acar Yagcı
15. Elasticity of umbilical cord and collagen and trace elements and other biochemical parameters. Researchers: Do. Dr. Erdem Alaca, Duygu Aydemir.
16. Trace elements in wine. Researchers: Prof. Dr. Bedirhan Üstün. And Duygu Aydemir Starting date: Agust 2019 (one year)
17. Evaluation of serum trace elements and enzyme activities in erythrocytes in obesity with Doç. Dr. Serpil Çeçen
18. Neoadjuvan protokol ile tedavi alan meme kanseri hastalarında enerji metabolitlerinin tedavi aşamalarındaki değişiminin patolojik yanıt ile korelasyonu. Prof. Dr. Uğur Selek and his research group.

Citations:

	Citations	H-index	Hi10 index
Web of Science	1141	20	64
Scopus	1277	21	64
Google Scholar	2140	27	64
Scival	23 th		

Invited Speaker

2022

1. **Ulusu NN.** In vitro Diagnostics Testing and Future Biochemistry in the Diagnosis of Inflammation, (Inflamasyon Tanısında In vitro Diyagnostik ve Gelecek VII. Türkiye in vitro Diyagnostik Sempozyumu Inflamasyon Tanısında In vitro Diyagnostik ve Geleceğin Biyokimyası) 27-29 Nisan 2022 Virtual congress organization from İzmir.
2. **Ulusu NN.** Applications of enzyme biotechnology in everyday life Bahçeşehir University 08.04.2022. Virtual congress organization from Istanbul
3. **Ulusu NN.** Biochemical Overview of Amyotrophic Lateral Sclerosis Disease 11.04.2022 Başkent University Science talks organization from Ankara Virtual congress

2021

1. **Ulusu NN.** Impact of the Oxidative Stress Metabolism in Various Types of Cancer: Possible Targeted Therapy Approach. VIII. International Congress of Molecular Medicine 9-12 November 2021, İstanbul, Turkey.
2. **Ulusu NN.** I took part in the organization of the "Congress on Overview of Research, Publication and Education Processes in the COVID-19 Pandemic" held online on January 15-16. JBACH. Virtual congress organization
3. **Ulusu NN.** During the COVID-19 pandemic on January 16, 2021, I made a presentation as an invited speaker on simulation design for laboratory and surgical applications in medical education.

2020

1. Istanbul Pituitary Symposium. Endoscopic endonasal skull base surgery course in the treatment of pituitary adenomas and 3. Nursing care course in pituitary diseases. Endocrine disruptors. Istanbul University, Cerrahapaşa 6-7 March 2020.**2019**
2. Application areas of biomaterials in medicine: Biochemical approaches to biomaterials. 6th Biomaterials days, 9-10 December, 2019, Istanbul/Turkey
3. Prof. Dr. Nuriye Nuray Ulus. Biochemical and metabolic effects of SOD1 mutation in Amyotrophic lateral sclerosis İzmir Second International Symposium on Advancement in Molecular Medicine Research Dokuz Eylül University, Graduate School of Health Sciences, Department of Molecular Medicine, Izmir, Turkey 14th October 2019 to 18th October-2019

4. **Uluslararası** **Neighboring Countries: The Same Professional Aim** Hyatt Regency Beograd, Belgrade, Serbia, April 11–12, 2019. The Serbian Biochemical Society (SBS)

5. Aydemir D, Sarayloo E, Karabulut G, Barlas N, **Uluslararası**. Impact of the di-2-ethylhexyl phthalate-induced oxidative stress on the tissue damage. 15th Belgrade Symposium for Balkan Region »Neighboring Countries: The Same Professional Aim Hyatt Regency Beograd, Belgrade, Serbia, April 11–12, 2019. The Serbian Biochemical Society (SBS)

6. Aydemir D, Sarayloo E, Karabulut G, Barlas N, **Uluslararası**. The influence of di-2-ethylhexyl phthalate on the fatty acids composition. 15th Belgrade Symposium for Balkan Region »Neighboring Countries: The Same Professional Aim Hyatt Regency Beograd, Belgrade, Serbia, April 11–12, 2019. The Serbian Biochemical Society (SBS)

7. **Uluslararası**. Amyotrofik lateral skleroz hastalığında biyokimyasal ve moleküler parametreler. 17. Ulusal Sinirbilim Kongresi 4-7 Nisan 2019, Trabzon.

2018

8. **Uluslararası**. Endokrin Bozucular, Endokrin ve Metabolizma Hastalıkları, Tanıdan Tedaviye Biyobelirteçler" temalı III. Türkiye In Vitro Diyagnostik Sempozyumu 28 Şubat - 2 Mart 2018 tarihinde İzmir'de, Wyndham Grand İzmir Özdilek Otel.

2017

9. **Uluslararası**. Biomarkers for Neurodegenerative diseases Nörodejeneratif Hastalıklarda Biyobelirteçler" II. Türkiye in vitro Diyagnostik Sempozyumu BİYOBELİRTEÇLER (Hastalıkta ve Sağlıkta) 10-12 Mayıs 2017, İZMİR

2016

10. Why Glucose-6-phosphate dehydrogenase enzyme activity is increasing in Alzheimer's disease? Turkish Biochemistry Days, National Biochemistry Congress, 2-5 November 2016 Sivas Turkey.

11. Defining a scientific research problem, literature review and hypothesis generation. Hacettepe University Faculty of Medicine Department of Histology March .18 2016

12. TurkMSIC Research Workshop "Defining a scientific research problem, literature review and hypothesis generation" Koç University Istanbul January. 30.2016.

2015

13 Glukoz-6-fosfat dehidrogenaz enzim eksikliği ve Alzheimer hastalığı suç ortağı mı? XXVII. Ulusal Biyokimya Kongresi. 27. Ulusal Biyokimya Kongresi, Antalya 27th National Biochemistry Congress, Antalya / TURKEY 3-6 November, 2015.

14. Glucose-6-phosphate Dehydrogenase Deficiency and Alzheimer's Disease: Partners in Crime. 23rd Meeting of Balkan Clinical Laboratory Federation. 2nd National Congress of the Association of, Sarajevo, Bosni,a and Herzegovina. October 7-9, 2015.

15. Enzyme Purification. The First International Congress of Healthy Agriculture, Nutrition and Community, Workshop 24-25 July 2015 in Tehran, Iran, 2015.

16. Enzymes: Small machines in our life. The First International Congress of Healthy Agriculture, Nutrition and Community, to be held 24-25 July 2015 in Tehran, Iran, 2015.

17. Importance of enzymes in development of science Hacettepe University Faculty of Medicine Department of Histology March 16 2015

2014

18. Turkish Biochemical Society as an invited speaker Istanbul University Cerrahpaşa Faculty of Medicine, Place of enzymes in our lives, December 8, 2014

19. Doctoral education practice models. XXVI. Turkey Meeting of University Institute of Health Sciences, Institute of Health Sciences DEU September 25, 2014.

2013

20. Cardinal place of glucose-6-phosphate dehydrogenase and glutathione reductase 21st Meeting of the Balkan Clinical Laboratory Federation Congress, September 25th – 28 th in Budva, Montenegro.

21. Panel opening lecture 'A short history of enzymes'. Turk Biochemistry Congress 3-6 September. İzmir, Turkey.

22. Roles of enzyme and enzymatic products in our lives. 13th Iranian Congress of Biochemistry, 5th Iranian Congress Biochemistry and Molecular Biology. 17 April, Yazd, Iran.

23. Panelist. 13th Iranian Congress of Biochemistry, 5th Iranian Congress Biochemistry and Molecular Biology. 18 April Yazd Iran.

2012

24. Conference opening lecture Enzymes; Small machines in our life. Fifteenth Scientific Conference "Ivan Berkes" December 4th, Belgrade, Serbia.

26. Two faces of glucose-6-phosphate dehydrogenase. 20th Meeting of the Balkan Clinical Laboratory Federation Congress, 8th EFCC Symposium for Balkan Region 18th Congress of Medical Biochemists of Serbia September 18–22 Belgrade, Serbia.

26. 5. Ankara Medical Biochemistry Days' Enzymes yesterday today tomorrow ' April 17, Ankara, Turkey

27. Turkish Biochemical Society Izmir, "Small Machines in our lives." February 27th, Izmir, Turkey.

28. Gulhane Military Medical Academy Enzymes: small machines in our lives. January 11, Ankara, Turkey.

2010

29. 18th Balkan Clinical Laboratory Federation Congress (BCLF) Tirana-Arnavutluk 22-25th September New perspectives and aspects on enzyme inhibition.

30. Symposium on Recent Advances on Biochemistry Prof. Uğur Atik behalf of Glucose-6- Phosphate Dehydrogenase Purification of the sheep brain and Determination of Some Properties May 21 in Mersin, Turkey

31. Stress granules, Cukurova University Faculty of Medicine, 4. November, Adana, Turkey.

2009

32. 2nd Ankara Medical Biochemistry Ankara Universal Importance of mRNA April 30.

2008

33. Hacettepe University, Faculty of Medicine, Department of Histology-Embryology ' Stress Granules ' 11. November Ankara, Turkey.

2007

34. Dicle University Faculty of Medicine 'Protein Purification', Department of Biochemistry, 26.November Diyarbakir, Turkey.

2005

35. National Congress of Clinical Biochemistry applied enzymology workshop on the 'Spectrophotometric enzyme activity methods April 22-25, Antalya, Turkey

36. National Biochemistry Congress Workshop in enzymology Enzyme Kinetics and Clinical importance, April 22-25, Antalya, Turkey.

2003

37. Hacettepe University Faculty of Medicine Continuing Medical Education Activities ' in Cell Signal Transduction ' course is the 'Signal molecules' May 29, Ankara, Turkey.

2002

38. Ankara University, Medical school 'Symposium on ' neurotransmitters ' s 'Stress and allostatic Regulatory Mechanisms ' Ankara University Faculty of Health Education Publications No. 5 pages19-38 was published, Ankara, Turkey.

39. Hacettepe IVF Unit team ' Cell Biology ' presentation on 11 October, Ankara Turkey.

Panel:

For presenting our research together with my team a panel is accepted: 15th Belgrade Symposium for Balkan Region, April 18 and 19, 2019, Hyatt Regency Beograd, Belgrade, Serbia.

Endocrine disruptors panel

I. Prof. Dr. Nuriye Nuray Ulu

Endocrine-disrupting chemicals induce oxidative stress

Koc University, School of Medicine, Department of Medical Biochemistry, Sariyer, 34450, Istanbul,

II. Prof. Dr. Nuriye Nuray Ulu

What are endocrine disruptor chemicals and their effects on the organisms?

Hacettepe University, Faculty of Science, Department of Biology, Ankara, Turkey

**III. Duygu Aydemir¹, Gözde Karabulut Karabulut G², Gülsu Şimşek³, Müslüm Gök⁴,
Nurhayat Barlas N⁵, Nuriye Nuray Ulu¹**

Impact of the DEHP-induced oxidative stress on the tissue damage

1Koc University, School of Medicine, Department of Medical Biochemistry, Sariyer, 34450, Istanbul,

2Dumlupınar University, Faculty of Science, Department of Biology, Kütahya, Turkey,

3Koç University Surface Science and Technology Center (KUYTAM), Rumelifeneri Yolu, Sariyer, 34450, Istanbul, Turkey

4Hacettepe University, Faculty of Medicine, Department of Medical Biochemistry, Ankara,

5Hacettepe University, Faculty of Science, Department of Biology, Ankara, Turkey

IV. Duygu Aydemir¹, Ehsan Sarayloo¹, Gözde Karabulut², Nurhayat Barlas N³, Nuriye Nuray Ulu¹

The influence of di-(2-ethylhexyl) phthalate on the fatty acids composition

1Koc University, School of Medicine, Department of Medical Biochemistry, Sariyer, 34450, Istanbul,

2Dumlupınar University, Faculty of Science, Department of Biology, Kütahya, Turkey,

3Hacettepe University, Faculty of Medicine, Department of Medical Biochemistry, Ankara.

BOOKS

Written International Book Chapters:

1. Aydemir D, Ulus NN. Evaluation of the Minerals and Trace Elements in the Biological Samples. In: Betim Cazarin, C.B. (eds) Basic Protocols in Foods and Nutrition. Methods and Protocols in Food Science, pp 145–168, Year:2022, Publisher: Springer Nature – 2022. ISBN: 978-1-0716-2345-9 Humana, New York, NY. doi:10.1007/978-1-0716-2345-9_10 https://link.springer.com/chapter/10.1007/978-1-0716-2345-9_10
2. Aydemir D., Ulus NN. Phthalates: Environmental and Health Effects (book name)
Chapter name: Impact of Phthalates on Oxidative Stress Metabolism: A Key Mechanism Contributes to the Disease Pathogenesis" Nova Science Publisher 2022. ISBN: 978-1-68507-970-3
3. Nurhayat Barlas, Nuriye Nuray Ulus. Endokrin, Metabolik hastalıklar ve invitro diyagnostik (2018) Endokrin Bozukluklar
4. Nuriye Nuray Ulus. Disorders of carbohydrate metabolism. July 2022 (İstanbul Koç University) November 2013 (Palme Kitapevi (Ankara) (Koç University)
5. Ulus NN. Enzyme kinetics, Biochemistry (Akademisyen Tıp Kitapevi) Temel bilimler serisi Palme Ankara 2013
6. Ulus NN. Metabolism, Biochemistry (Akademisyen Tıp Kitapevi) Temel bilimler serisi Palme Ankara 2013
7. Ulus NN. Bioenergetics, Biochemistry (Akademisyen Tıp Kitapevi) Temel bilimler serisi Palme Ankara 2013.
8. Ulus NN. Pentose phosphate pathway, Uronic acid pathway and Metabolism of Monosaccharides and disaccharides, Biochemistry (Akademisyen Tıp Kitapevi) Temel bilimler serisi Palme Ankara 2013.

Book translations I:

Laboratory medicine The diagnosis of disease in the clinical laboratory Second edition

By Michael Laposata (Lange)

Chapter 8: Blood Vessels

Chapter 9: The Heart

Chapter 10: Diseases of Red Blood Cells (2016)

II:

II. Mark's Essentials of Medical Biochemistry, 2'nd Edition

Chapter: 12 Nükleik asitlerin yapısı (2016)

III.

Harper 29th Edition. (2015)

Chapter 7: Enzymes; Mechanism of Action

Chapter 8: Enzymes Kinetics

Chapter 9: Enzymes: Regulation of Activities

IV.

Stryer Seventh edition November 2013 (Palme Kitapevi (Ankara)

Chapter 8: Enzymes: Basic Concepts and Kinetics (Koç University)

Editors: Jeremy M. Berg; John L. Tymoczko; Lubert Stryer with Gregory J. Gatto

W.H. Freeman and Company New York.

V.

Lab Notes (Lab Notları) Güneş Tıp Kitapevi (2012)

Laboratuar değerler ve tanısal testler rehberi (Tracey B. Hopkins)

Translation half of the book.

Posters and oral presentations in international congress

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Posters and oral presentations in National Congress

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4. Aydemir D, Yucel M, Koseoglu M, Uluşu NN. Impact of COVID-19 progression on the people with dementia in relation to serum biochemical parameters and hemogram data. 31th National Biochemistry 2020, December, 2020, Turkey.
5. Aydemir Duygu, Gecili, F., Ozdemir, N., Uluşu, N.N. A novel enzyme-hybrid nanoflower consisting of amylase, protease and lipase with enhanced thermal stability and catalytic activity. 6th Biomaterials days, 9-10 December 2019, Istanbul/Turkey.
6. Aydemir Duygu, Hashemkhani, M., Yagci Acar, F., Uluşu, N.N. A novel bio-detection method to evaluate GST enzyme activity via biocompatible GSH-Ag₂S NIRQDs. 6th Biomaterials days, 2019, Istanbul/Turkey.
7. Aydemir Duygu, Oztasci, B., Barlas, N., Uluşu, N.N. The Endocrine Disruptor Butylparaben induces Brain Tissue Damage via Impairment of the anti-oxidant Enzyme Metabolism. 17th Turkish Neuroscience Congress, 2019, Trabzon/Turkey.
8. Erbayraktar Z, Evlice A, Yener G, **Uluşu NN**. Alzheimer hastalığının tedavisinde donepezilin karaciğer ve böbrek fonksiyonları üzerine etkisi II. Türkiye in vitro Diyagnostik Sempozyumu BİYOBELİRTEÇLER (Hastalıkta ve Sağlıkta) 10-12 Mayıs 2017, İzmir.
9. Erbayraktar Z, Evlice A, Yılmaz G, Yazıcı C, Yener G, **Uluşu NN**. Renal Function in Alzheimer's Disease and Geriatric patients: Results From A Turkish Two-Centre Study. Turkish Biochemistry Days, National Biochemistry Congress, P-66, 2-5 November Sivas, 2016.

10. Erbayraktar Z, Evlice A, **Ulus** NN. Effects of donepezil use on kidney and liver function tests in patients with Alzheimer's disease. Medication and therapy congress 25 April-2 May 2016 Antalya, Turkey. (Oral presentation).
11. Sevgin Özlem İşeri Erten, Zeliha Günnur Dikmen, **Ulus** NN. P-252 – Comparision of spectrophotometric and fluorimetric methods in evaluation of biotidinidase deficiency Biotidinidaz eksikliđinin ölçümünde spektrofotometrik ve florometrik yöntemlerin karşılaştırılması. 27. Ulusal Biyokimya Kongresi, Antalya [27th National Biochemistry Congress, Antalya / TURKEY] 3-6 November, 2015.
12. **Ulus** NN, Yılmaz G, Erbayraktar Z, Evlice A, Genç M, Aras S, Avcı A, Yener G P-290 - A comparative study on thyroid function in Alzheimers' disease: results from a Turkish multicenter study.27th National Biochemistry Congress, Antalya / TURKEY] 3-6 November, 2015.
13. Tandođan B, **Ulus** NN. Sıđır böbrek korteksi glutatyon redüktazının saflaştırılması ve bazı özelliklerinin araştırılması 1-3 Aralık tarihlerinde İzmir Atatürk Kültür Merkezi'ndeolan Ege Arge ve Teknoloji Günlerine, 2011.
14. Tandođan B, **Ulus** NN. Sıđır böbrek korteksi glutatyon redüktazının saflaştırılması ve bazı özelliklerinin araştırılması. Hacettepe Üniversitesi, Proje pazarı 10-11 Mayıs, 2010, Ankara.
15. Şengezer C, **Ulus** NN. Glukoz-6-fosfat dehidrogenaz enziminin koyun beyninden saflaştırılması ve bazı özelliklerinin belirlenmesi. Hacettepe Üniversitesi Proje pazarı 10-11 Mayıs, 2010, Ankara.
16. Şengezer C, **Ulus** NN. Glukoz-6-fosfat dehidrogenaz enziminin koyun beyninden saflaştırılması ve bazı özelliklerinin belirlenmesi. Prof.dr. Uđur Atik adına Biyokimyada Güncel Gelişmeler Sempozyumu 21-22 Mayıs, 2010.
17. Tandogan B, **Ulus** NN. Glutatyon redüktazın hızlı ve basit şekilde saflaştırılması. P–28, VII Ulusal Sinirbilimleri Kongresi Çukurova Üniversitesi, Adana 16–20 Nisan, 2008.
18. **Ulus** NN, Tandogan B. Sıđır böbrek korteksi glutatyon redüktazının kinetik karakterizasyonu.

P-29, VII, Ulusal Sinirbilimleri Kongresi ukurova niversitesi Adana 16-20 Nisan 2008.

19. Ŗengezer C, **Ulus** **NN**. Glukoz 6-fosfat dehidrogenazın koyun beyninden saflařtırılması. Poster-7 IV, Ulusal Afinite Teknikleri Kongresi (Uluslararası katkı) Muęla niversitesi 04-07 Mayıs 2008.
20. Ŗengezer C, **Ulus** **NN**. Koyun beyin korteksinden saflařtırılan glukoz-6-fosfat dehidrogenazın kinetik davranıřının saptanması. Poster-8 IV Ulusal Afinite Teknikleri Kongresi (Uluslararası katkı) Muęla niversitesi 04-07 Mayıs 2008.
21. **Ulus** **NN**, Ŗengezer C. Koyun beyin korteksinden saflařtırılan glukoz-6-fosfat dehidrogenazın nikel ile inhibisyonu. Poster-9 IV Ulusal Afinite Teknikleri Kongresi (Uluslararası katkı) Muęla niversitesi 04-07 Mayıs 2008.
22. Tandogan B, **Ulus** **NN**. Sıęır Bbrek korteksi glutatyon redktazının nikel ile inhibisyonu. Poster-16. IV Ulusal Afinite Teknikleri Kongresi (Uluslararası katkı) Muęla niversitesi 04-07 Mayıs 2008.
23. Tandogan B, **Ulus** **NN**. Sıęır Bbrek korteksi glutatyon redktazına inkonun etkisi. Poster-17. IV Ulusal Afinite Teknikleri Kongresi (Uluslararası katkı) Muęla niversitesi 04-07 Mayıs 2008.
24. **Ulus** **NN**, Tandogan B. Glutatyon redktazın eřitli dokulardan saflařtırılması. Poster-18. IV Ulusal Afinite Teknikleri Kongresi (Uluslararası katkı) Muęla niversitesi 04-07 Mayıs 2008.
25. Tandogan B, **Ulus** **NN**. Sıęır bbrek korteksi glutatyon redktaz enziminin kadmiyum ile inhibisyonu. S 18, Metabolizmanın reglasyonu ve metabolik reglasyon (İsanst yaz okulu) Trabzon, 29 Haziran-06 Temmuz 2008.
26. Ŗengezer C, **Ulus** **NN**. Koyun beyin korteksinden saflařtırılan glukoz-6-fosfat dehidrogenaz enziminin kadmiyum (Cd +2) ile inhibisyonu S 19 Metabolizmanın reglasyonu ve metabolik reglasyon (İsanst yaz okulu). Trabzon, 29 Haziran-06 Temmuz 2008.
27. Ŗengezer C, **Ulus** **NN**. Koyun beyin korteksi b-D- glukoz-6-fosfat dehidrogenaz enziminin inko (Zn +2) ile inhibisyonu S 20 Metabolizmanın reglasyonu ve metabolik reglasyon

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28. Tandoğan B, **Ulusı NN**. Glutasyon Redüktazın Kalsiyum Klorür İle İnhibisyonu P30 Inhibition of Glutathione Reductase By Calcium Chloride. V. Ulusal Sinirbilimleri Kongresi (5th National congress of Neuroscience Zonguldak-Turkey, April 10–14, 2006) Zonguldak Karaelmas Üniversitesi 10–14 Nisan 2006.
29. Tandogan B, **Ulusı NN**. Glutasyon Redüktaz İnhibisyonunda EDTA’ nın Koruyucu Etkisi P31 Protective Effect of EDTA on Glutathione Reductase Inhibition V. Ulusal Sinirbilimleri Kongresi (5th National congress of Neuroscience Zonguldak-Turkey, April 10–14, 2006) Zonguldak Karaelmas Üniversitesi 10–14 Nisan 2006.
30. Güz G, Öz E, Lortlar N, **Ulusı NN**, Nurlu N, Demiroğulları B, Ömeroğlu S, Sert S, Karasu Ç. Taurine’nin Renal İskemi/Reperfüzyon Hasarına Etkileri, S8 Organ Nakli Kuruluşları Koordinasyon Derneği V. Kongresi Ttansplantasyon 2006, Sheraton Otel Çeşme.
31. Tandogan B, Tumer A.R, **Ulusı NN**. Effects of toluene on pentose phosphate pathway enzymes in the brain of rats. P97. IV. Ulusal Sinirbilimleri Kongresi Mersin, 29 Mart-2 Nisan 2005.
30. Tandogan B, Tumer A.R, **Ulusı NN**. Effects of toluene on rat brain glutathione-S-transferase and catalase. P98 IV. Ulusal Sinirbilimleri Kongresi Mersin, 29 Mart–2 Nisan 2005.
31. Tumer A.R, Tandogan B, **Ulusı NN**. Effects of toluene on rat brain glutathione peroxidase and glutathione reductase. P99 IV. Ulusal Sinirbilimleri Kongresi, Mersin, 29 Mart-2 Nisan 2005.
32. Tumer A.R, Tandogan B, **Ulusı NN**. Tolüenin rat karaciğeri pentoz fosfat yolu enzimleri üzerine etkisi P121. 19. Ulusal Biyokimya Kongresi Antalya, 22–25 Nisan 2005.
33. **Ulusı NN**, Tandogan B, Tumer AR. Tolüenin rat karaciğeri glutasyon redüktaz ve glutasyon peroksidaz enzimlerine etkisi. P127. 19. Ulusal Biyokimya Kongresi, Antalya, 22–25 Nisan 2005.
34. **Ulusı NN**, Tandogan B, Tumer AR. Tolüenin rat karaciğeri glutasyon-S-transferaz ve katalaz enzimleri üzerine etkisi. P128. 19. Ulusal Biyokimya Kongresi Antalya, 22–25 Nisan 2005.

35. **Ulus** NN. Ulusal Afinité Teknikleri Kongresi Glukoz 6-Fosfat Dehidrogenaz Enziminin Afinité ve İyon Deęiřtirici Kolonları Kullanılarak Çeřitli Dokulardan Saflařtırılması ve Bazı Özelliklerinin Açıklanması, Ankara. (oral presentation) 22-24 Haziran 2005.
36. **Ulus** NN, Tandoęan B. The effects of Ca²⁺ and EDTA on glucose-6-phosphate dehydrogenase activity inhibited by Zn²⁺ Volume 3 Supplement 1, P39, 3rd Natioanal Congress of Neuroscience Denizli, Turkey, April 7-11, 2004.
37. **Ulus** NN, Tandoęan B. The effects of Ca²⁺ and EDTA on glucose-6-phosphate dehydrogenase activity inhibited by Cd²⁺ Volume 3 Supplement 1, P40, 3rd Natioanal Congress of Neuroscience Denizli, Turkey, April 7-11, 2004.
38. Akbay E. **Ulus** NN, Törüner F, Ayvaz G, Taneri F, Aktürk M, Arslan M. Diyete baęlı sıçanlarda rosiglitzaon tedavisinin karacięer antioksidan enzim aktivitelerine etkileri. Turkish Journal of Endocrinology and Metabolism 26th National Congress of Endocrinology and Metabolic Diseases. Volume 7 Number 1 P041, 2003.
39. **Ulus** NN, Kılınç K, Turan B. Selenyum diyabetik kalp ve karacięer dokusu antioksidan savunma mekanizmasına ve yapısına etkilerinin incelenmesi. Klinik Biyokimya Günleri Klinik Biyokimya Uzmanları Derneęi 1. Ulusal Kongresi P18 Kapadokya 1–4 Ekim 2003.
40. Tandoęan B, **Ulus** NN. Glukoz-6-fosfat dehidrogenazın koyun böbrek korteksinden saflařtırılması. Klinik Biyokimya Günleri Klinik Biyokimya Uzmanları Derneęi 1. Ulusal Kongresi P94 Kapadokya 1–4 Ekim 2003.
41. Tandoęan B, **Ulus** NN. Kuzu böbrek korteksinden saflařtırılan glukoz-6-fosfat dehidrogenazın çinko sülfat ile inhibisyonu. XV. Ulusal Biyofizik Kongresi P44 Pamukkale Üniversitesi Denizli 8-12 Ekim 2003.
42. Tandoęan B, **Ulus** NN. Kuzu böbrek korteksinden saflařtırılan glukoz-6-fosfat dehidrogenazın kadmiyum klorür ile inhibisyonu. XV. Ulusal Biyofizik Kongresi P45 Pamukkale Üniversitesi Denizli 8-12 Ekim 2003.
43. **Ulus** NN, Tanyel FC, Tezcan EF, Büyükpamukcu N. Fıtık, hidrosel ve inmemiř testis ile iliřkili

keselerle peritonda Ca^{2+} içeriğinin karşılaştırmalı olarak çalışılması: Programlı hücre ölümü etkisinin ipuçları. 1. Ulusal Sinirbilimleri Kongresi, Eskişehir. (p:100) 16–20 Mart 2002. 442.

44. **Ulus N**, Sahilli M, Ceylan A, Karasu Ç. Glukoz-6-fosfat dehidrogenaz, 6-fosfoglukonat dehidrogenaz, glutatyon redüktaz ve glutatyon-S-transferaz aktivitelerinin uzun süreli ve kısa süreli stz-diyabetik sıçan beyinlerinde karşılaştırılması. Ulusal Sinirbilimleri Kongresi, Eskişehir. (p:101). 16–20 Mart, 2002.
45. **Ulus N**, Sakar MK, Tezcan EF. The inhibitors of soybean lipoxygenase: (-)-Epicatechin-3-O-gallate and (-)-Epigallocatechin-3-O-gallate. 8th Biomedical Science and Technology Symposium Ankara, P35, Turkey September 5–8, 2001.
46. **Ulus N**, Ercil D, Sakar MK, Tezcan EF. Abietic acid inhibits lipoxygenase activity. 6th International Symposium on Pharmaceutical Sciences ISOPS–6 June Ankara (Turkey. Proceedings and Abstract Book P–104), 27-9 2000.
47. **Ulus N**, Açan NL, Turan B, Tezcan EF. Effects of Dietary selenium on the glutathione reductase and glutathione peroxidase activities of animal tissues and the relationship with cadmium toxicity. Selenium 2000 7th International Symposium on Selenium in Biology and Medicine, P-1 Venezia, Italy October 1-5 2000.
48. **Ulus N**, Erten C, Açan NL, Turan B. Diyetle alınan selenyumun tavşan karaciğer ve kalbindeki glutatyon peroksidaz ve glutatyon redüktaz enzimleri üzerine etkisi. IX. Ulusal Biyofizik Kongresi, Orta Doğu Teknik Üniversitesi, Ankara, (Özet Kitabı PD3) 5–6 Eylül 1997.
49. **Ulus N**, Kuş MS, Tezcan EF. Sığır lensinden glukoz-6-fosfat dehidrogenazının saflaştırılması ve bazı özellikleri. Uluslararası katılımlı XIV. Ulusal Biyokimya Kongresi, İzmir, (Biyokimya Kongresi Özet Kitabı, C–114), 28–31 Ekim 1997.
50. **Ulus N**, Açan NL, Turan B, Tezcan EF. Diyetle alınan selenyumun çeşitli tavşan dokularında glutatyon redüktaz aktivitesi ve kadmiyum toksidesi ile ilişkisi. Uluslararası katılımlı XIV. Ulusal Biyokimya Kongresi İzmir, (Biyokimya Kongresi Özet Kitabı, C-302). 28–31 Ekim 1997.
50. **Ulus N**, Ünsal İ, Ögüş İH, Kansu E, Özer N. İnsan glutatyon S-transferazının, kinetik özellikleri ve mitomycin C ve idarubicin tarafından inhibisyonu. XI. Ulusal Biyokimya Kongresi, Kemer-Antalya,

(Biyokimya Dergisi 17 Özel Sayı, E-23), 24–9 Ekim 1992

51. **Ulus** **NN**, Özer N. İnsan plasental glutatyon S-transferazının saflaştırılması ve bazı özellikleri. IX. Türk Biokimya Kongresi, Antalya, (Biyokimya Dergisi Özel Sayısı 14 44–5), 19–23 Kasım 1989.

Editorial board membership

International

Journal of Medical Biochemistry (SCI-expanded)

Journal of Basic and Clinical Health Sciences (JBACHS)

Türkiye Klinikleri- columnists

Reviewer

1. Biometals
2. Journal of Enzyme Inhibition and Medicinal Chemistry
3. Toxicology in vitro
4. Veterinary Ophthalmology
5. International Journal of Biomedical Sciences
6. Journal of Animal Breeding and Genetics
7. Türkiye Klinikleri Tıp Bilimleri Dergisi
8. Journal of Clinical Laboratory research
9. Turkish journal of Biochemistry
10. Zonguldak Karaelmas Üniversitesi dergisi
11. Journal of Pharmaceutical Sciences
12. FABAD
13. Hacettepe Üniversitesi Eczacılık Fakültesi

14. Pharmaceutical Biology

15. Journal of Medical Biochemistry

16. Turkish Journal of Medical sciences

CONDUCTED MASTERS, DOCTORATE AND RESIDENCY THESIS

1. Residency Thesis Co-Adviser

Dr. Sevgin Özlem İşeri-Erten

Subject: Biotinidase enzyme assays

Completed: 2. April 2014

2. Doctorate Thesis

Duygu Aydemir

Koç University School of Medicine, Biochemistry

Investigation of the Biochemical Parameters in pre-symptomatic and symptomatic SOD1 Mutated Rat Model of ALS

Completed

Purification and investigation of some properties of bovine renal cortex glutathione reductase

Sığır böbrek korteksi glutatyon redüktazının saflaştırılması ve bazı özelliklerinin araştırılması

Berivan Tandoğan

Completed: September 2010)

3. Master of Science Thesis

Purification of glucose-6-phosphate dehydrogenase from sheep brain cortex and determination of some properties

Glukoz-6-fosfat dehidrogenazın koyun beyninden saflaştırılması ve bazı özelliklerinin saptanması

Cihangir Şengezer

Completed: 14. April.2010

4. Master of Science Thesis

Purification and determination of some properties of glucose-6-phosphate dehydrogenase from lamb kidney cortex

Kuzu böbrek korteksinden, glukoz-6-fosfat dehidrogenazın saflaştırılması ve bazı özelliklerinin

saptanması

Berivan Tandoğan

Completed: 2004

AWARDS

1. Kayadibi H., Yapar D., Akdoğan Ö., Üçer Ş., Ulusu N., Baykam N. Kırım-Kongo kanamalı ateşi olan ve olmayan hastaların ayırımında yeni bir gösterge:Hitit İndeksi.7.Türkiye EKMUD Bilimsel Platformu Uluslararası Kongresi İmmünsüpresif hastalar ve viral enfeksiyonlar 3-7 Nisan 2019 Antalya Prof. Dr. Hasan Salih Zeki En iyi Araştırma Özel Ödülü aldık.Çalışma Hitit Üniversitesi ve Koç Üniversitesi
2. . Turkish Journal of Biochemistry published in the journal ' Characterization of glucose -6-phosphate dehydrogenase purified from kidney cortex light ' because of my article is cited by SCI also been selected to receive the best article of 2005.
3. Fifth Congress of the Transplantation Society of Transplantation Coordination Organization, 2006 Sheraton Cesme Hotel 14-17 SEPTEMBER 2006 our posterior have received young researchers' awards.
4. Diabetes complications, vitamin E Gen Physiol Biophys 2004; 23 (3) 347-355 our paper is involved in 'oil historic Mill Newspaper of e called upon

Doctorate student awards:

5. The Turkish Biochemical Society Grant for the 32nd National Biochemistry Congress, 27-30 October 2021, Turkey
6. Academic Excellence Award, Graduate School of Health Sciences, Koc University, School of Medicine, July 2021, Istanbul/Turkey.
7. The Turkish Biochemical Society Grant for the 31th National Biochemistry Congress, 18-20 December 2020, Turkey
8. The FEBS Grant for the 44th FEBS Congress, 6-11 July 2019, Krakow/Poland

Summer Schools (National and International)

'Monoclonal Antibody Techniques' 18–22 November 1991, The Royal Postgraduate Medical School, University of London, England

TUBITAK, the British Council and conducted in cooperation with the Middle East Technical University, ' Protein Structure, Function and Stability ' course on 18-22 April 1994 in Ankara, Turkey.

DNA Techniques in Molecular Level' ' June 16 to 20 , 1997 Cukurova University , Faculty of Medicine , Biochemistry Department, TUBITAK and Cukurova University summer school organized by the Institute of Health Sciences cooperation.

TUBITAK DNA / Cell Bank and Gene Research Laboratories ' Gene Mapping Protein Modeling ' course of January 28, 2000.

Clinical Laboratory Standardization and Quality Assurance in Education and Practice Meeting- III ' 31 March to 3 April 2000 in Adana.

Hacettepe University Faculty of Medicine, Continuing Medical Education Activities ' Reactive Oxygen and Nitrogen Oxide Types: Synthesis, Functions and Toxic Effects ' course, 3-4 September 2001 in Ankara.

Hacettepe University, Faculty of Pharmacy, Association of Graduates, ' Hypolipidemic drugs ' training session on March 23, 2002 Ankara.

Free Radical School on Measurement of Free Radicals, Evaluation of Oxidant/Antioxidant Status and Clinical Applications May 10–12, 2002, Swiss Otel The Bosphorus, Istanbul, Turkey.

Hacettepe University Faculty of Medicine Study Skills Seminar ' 27 to 31 May 2002 Ankara.

Gulhane Military Medical Faculty of the National Symposium on HPLC and other Separation Techniques ' 25 to 27 May 2003 Ankara.

TUBA organized by " Affinity Separation in Biotechnology " Intensive Course on 3-5 November 2003 in Chemical Engineering Ankara

Hacettepe University Faculty of Medicine Medical Education Activities ' Optophysiology and Confocal Microscopy ' course 18-19 September 2004 in Ankara

Hacettepe University Faculty of Medicine Medical Education Activities ' Defining Basic Cell Culture Techniques and Practice of " 28 to 30 January 2005 Ankara.

Hacettepe University Faculty of Medicine Experimental Animal Research and Training Unit and Surgical Research Unit, organized by the ' Use of Laboratory Animal Course " 25.05.2005 Ankara.

Gulhane GATA Biochemistry and Clinical Biochemistry organized by AD Molecular Aging Workshop ' 21 to 22 November 2005 Ankara.

International Conference Actual Problems of Thalassemia Absheron hotel Baku Azerbaijan 10-11May 2007.

Regulation of metabolism and metabolic regulation (Graduate summer school) . Trabzon June 29 - July 6, 2008.

Çevre ve insan sağlığı için emanet 2013. II. Elektromanyetik alanlar ve etkileri sempozyumu. 8-9 Kasım 2013 Yıldız Teknik Üniversitesi Oditoryumu/ Beşiktaş Kampüsü

Türkiye Üniversiteleri Sağlık Bilimleri Enstitüleri XXVIII. İstanbul Toplantısı 6 Mayıs 2016

Intern training:

1 Hacettepe University Faculty of Medicine (the elective internship) drove from Faculty of Medicine and Faculty of Science Biology students with theoretical and practical training as an intern applications.

Congress commission

1. 1st Eurasia Biochemical Approaches & Technologies (EBAT) Congress. 27-30 October 2018. Antalya
2. The IFCC WorldLab Istanbul 22-26 June 2014 Congress Reviewing the abstracts on bioinformatics.

3. 3. Anti-Aging Congress in the session chaired by the Ankara Sheraton Hotel on 2-5 December 2010.
4. 20th National Biochemistry Congress 29 October to 1 November 2008 Kapadokya -Nevsehir Chairmanship.
5. 3. National BIOMED Conference, Uludag University , 12-14 September 2007, served on the Scientific Committee.
6. 2. Affinity National Technical University Karaelmas Congress, 7-10 June 2006, the office in the Scientific Committee.
7. 1. National Affinity Technical Congress, Hacettepe University, 22-24 June 2005, the office in the Scientific Committee.
8. 19th National Congress of Clinical Biochemistry, enzymology did Workshop on Practical Presentation on display as spectrophotometric enzyme activity of 22 to 25 April 2005 Antalya.
9. BIOMED 2004 11th International Biomedical Science and Technology Days. Ankara, BAPO6 September 6-10, 2004, I worked in the Scientific Committee.

Full member/ Alternate member in the thesis defense exams:

1. Hacettepe University Institute of Health Sciences Biochemistry Department Program July 22, 2003 and MSA / 2003-572 dated generated by the decision and exams September 29, 2003, Pinar Akpınar 'in' peripheral blood lymphocytes in the investigation of the measles virus receptor titled Master of Science reserves the thesis I worked as a jury member.
2. Hacettepe University Faculty of Health Sciences, Institute of Biochemistry, Department of Programs Ali Clients in the 'Rat purification of glucose-6-phosphate dehydrogenase enzyme from the small intestine and investigation of some kinetic properties' I worked as a member of reserve judges titled Master of Science thesis.
3. Hacettepe University Institute of Medical Sciences MSA / with 2004-020 decree of Biochemistry, Department of Program Berivan Tandogan 's' from lamb kidney cortex, the purification of glucose-6-phosphate dehydrogenase and the detection of some properties' I worked is Master of Science thesis as the thesis adviser.
4. Cukurova University Institute of Health Science Education and Examination Guidelines 's in accordance with Article 51' α -thalassemia and 29.01 in his doctoral dissertation at the molecular level examinations from examination of those mutations cause G6PD deficiency. I worked as a jury member in 2004.
5. Cukurova University Institute of Health Science Education and Examination Guidelines' s Article 51 in accordance with 'Anamur district of glucose-6-phosphate dehydrogenase enzyme structure and molecular feature' doctoral thesis examination has worked as a member of replacement judges on 30.01.2004.
6. Hacettepe University Health Sciences Institute of Biochemistry, Department of Program doctoral student Incilay Sinica's board of directors to conduct thesis defense exam on 28 May 2004 and MSA / 2004-427 decree created with the jury reserve members Date: July 9, 2004.
7. Ankara University Institute of Health Sciences Medical Biology Department of Nur Öztan Kandas Prostate selenium thioredoxin effect on reductase in the prevention of cancer: cells in the prostate cell proliferation the apoptosis proteins bought expression profiles of in vitro studies is serving as a

full member in the PhD thesis defense. March 13, 2007.

8. Hacettepe University Health Sciences Institute of Biochemistry, Department of Ahmet Flag purified human serum paraoxonase enzyme kinetic properties, the investigation of endogenous substrates and antioxidant properties, I worked as a member of the noble in his PhD thesis defense. September 15, 2008.

9. Hacettepe University Institute of Health Sciences Department of Biochemistry Tulin give the kinetic properties of the Flag of the Rabbit Liver enzyme paraoxonase endogenous substrates and to investigate the antioxidant properties of the PhD thesis defense reserve members. February 4, 2009.

10. Ankara University Institute of Health Sciences Department of Medical Biology in sperm-egg fusion Gülçin Pekkurnaz phosphatidylserine release and noble role is to serve as a member of PhD thesis defense. March 30, 2009.

11. Cukurova University Health Sciences Institute of Education and Examination Guidelines 'Mother and fetal nucleic acid in prenatal diagnosis application in blood' Ebru Dunder Dissertation exam I worked as a jury member. 13/05/2010

12. Ankara University Faculty of Health Sciences Institute of Medical Biology Department at the Handan Kayhan served as alternate members of the PhD thesis defense. 09.07.2010.

13 Hacettepe University Institute of Health Sciences MSc and PhD entrance exam I took part in as a jury. February 2010.

14. Cukurova University Health Sciences Institute of Education and Examination Guidelines 's Mother and fetal nucleic acid in prenatal diagnosis application in blood' Ebru Dunder Dissertation exam I worked as a jury member. 04/11/2010

15. Hacettepe University Health Sciences Institute Faculty of Pharmacy Zeynep Sezgin 's Phenoxazin and evaluate the region-directed mutagenesis method of phenothiazine made ligands from binding to human butyrylcholinesterase I worked as a jury member in the Master's exam. 2012.

16. Joint Project assembly Joint Scientific Workshop TUBITAK SAS on Research Cooperation TUBİTAK TÜSSİDE 14-15 April 2015.

TÜBİTAK Report

1. TÜBİTAK – ARDEB, Tanıbilim (Diagnostics) Çağrı Programı, “1003-SAB-TANI-2018-1 Yenilikçi Tanı Kitleri” Çağrı Metni I have examined 44 project file which were submitted to Diagnostics Call Program, "1003-SAB-TANI-2018-1 Innovative Diagnostic Kits.

Lectures

Course Code (CMM 532) – Course Name – Cancer Biochemistry and Mitochondria
Term: Spring and Autumn

-Course Code (CMM 530) Course name: The biochemical basis of mitochondrial diseases
Term: Autumn and Spring

-Immunometabolism (Lecture with Prof. Dr. Yıldız Tütüncü and Prof. Dr. Dilek Yazıcı
Term: Spring

-Nutritional Biochemistry | B. Sc. (Nutrition & Dietetics) I will give lecture on Nutritional biochemistry

Lectures Medicine phase II (Undergraduate) Most of the lectures given by me
-Laboratory Medicine phase II Half of the laboratories are conducted with me with my PostDoc