Prof. BELMA TURAN

Personal Information

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International Researcher IDs
ScholarID: 2DnktrcAAAAJ
ORCID: 0000-0003-2583-9294
Publons / Web Of Science ResearcherID: AAG-8084-2020
ScopusID: 7006863023
Yoksis Researcher ID: 28627

Education Information

Doctorate, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 1977 - 1982
Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1972 - 1976

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Health&Medicine, LOKMAN HEKİM ÜNİVERSİTESİ TIP FAKÜLTESİ LİSE BAHAR OKULU- KALBİN MİKROSKOBA YOLCULUĞU, LOKMAN HEKİM ÜNİVERSİTESİ, 2023
Health&Medicine, 2237 Bilimsel Eğitim Etkinliklerini Destekleme Programı Lisans Üstü Hemşirelik ve Ebelik Öğrencilerine Yönelik Epidemiyolojide Nedensellik Ve Gözlemsel Araştırmalar Eğitimi, Lokman hekim üniversites.i, 2022
Health&Medicine, Translasyonel Tıp Alanında Proje Hazırlama, Yazma ve Yürütme Eğitimi Ankara 2022, Lokman Hekim Üniversitesi, 2022

Dissertations

Doctorate, Kanda Bulunan Cu2 ve Fe3 Paragenetik Metal İyonları Özelliklerinden Yararlanılarak Normal ve Hasta İnsan Kanının ESR Yöntemiyle İncelenmesi, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1982

Research Areas

Biophysics

Academic Titles / Tasks

Professor, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2020 - Continues
Professor, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1993 - 2020
Associate Professor, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1987 - 1993
Research Assistant, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1983 - 1984
Research Assistant, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1977 - 1983

Academic and Administrative Experience

BAP Scientific Commissioner, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues
Head of Department, Lokman Hekim University, Sağlık Bilimleri Enstitüsü, Disiplinlerarası Hücresel Ve Moleküler Tıp Anabilim Dalı Anabilim Dalı, 2021 - Continues
BAP Coordinator, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2021 - Continues
Fakülte Yönetim Kurulu Üyesi, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2021 - Continues
BAP Scientific Commissioner, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2021 - Continues
Ethics Committee Member, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2021 - Continues
Chairman of the BAP Committee, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2020 - Continues
Head of Department, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2020 - Continues

Courses

BİYOFİZİK, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
BIOELECTRICAL INSTUREMENTS FOR MEASUREMENTS-OBSERVATIONS AND APPLICATIONS, Undergraduate, 2022 - 2023
Dönem 1 Biyofizik, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
ÖĞRENCİ PROJELERİ HAZIRLAMA DERSİ , Undergraduate, 2022 - 2023
Biyofizik Dönem II, Undergraduate, 2023 - 2024
D2 Biyofizik, Undergraduate, 2023 - 2024
BİYOFİZİK (TIP), Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
D3 Biyofizik, Undergraduate, 2023 - 2024
HÜCRE ELEKTROFİZYOLOJİSİ, Doctorate, 2023 - 2024
MAKROSKOPİK ANATOMİ VE TEMEL HÜCRE İNCELEME - GÖRÜNTÜLEME YÖNTEMLERİ HÜCRE METABOLİZMASI, Doctorate, 2023 - 2024
D3 B,iyofizik, Undergraduate, 2023 - 2024
Dönem II Biyofizik Türkçe ve İnglizce, Undergraduate, 2022 - 2023
Dönem 2 Biyofizik, Undergraduate, 2022 - 2023, 2021 - 2022
BİYOELEKTRİĞE GİRİŞ, Postgraduate, 2019 - 2020, 2014 - 2015, 2013 - 2014
DOLAŞIM SİSTEMİ BİYOFİZİĞİ, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
LİTERATÜR-SEMİNER, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
BİYOFİZİK (TIP), Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
UZMANLIK ALAN DERSİ, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
BİYOFİZİK (İNGİLİZCE TIP), Undergraduate, 2019 - 2020, 2018 - 2019
TEZ ÇALIŞMASI, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018
İŞİTME VE KONUŞMA BİYOFİZİĞİ, Postgraduate, 2018 - 2019, 2017 - 2018
BİYOFİZİK (DİŞ HEKİMLİĞİ), Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
BİYOPOTANSİYELLER, Doctorate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013
ALAN UYGULAMASI, Doctorate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

HÜCRE BİYOFİZİĞİ, Doctorate, 2016 - 2017
BİYOMEKANİĞE GİRİŞ, Postgraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013
DUYU BİYOFİZİĞİ, Doctorate, 2015 - 2016, 2013 - 2014
MEDİKAL FİZİK (VETERNERLİK), Undergraduate, 2015 - 2016
AKIŞKANLAR BİYOFİZİĞİ, Doctorate, 2015 - 2016, 2013 - 2014
MOLEKÜLER BİYOFİZİK, Doctorate, 2014 - 2015
BİYOMEKANİĞE GİRİŞ, Doctorate, 2013 - 2014
BİYOFİZİK(SUNUM), Undergraduate, 2013 - 2014, 2012 - 2013
MOLEKÜLER BİYOLOJİK YÖNTEMLER, Doctorate, 2013 - 2014
BİYOFİZİK, Undergraduate, 2013 - 2014, 2012 - 2013
BİYOMEDİKAL ENSTRÜMANTASYON, Doctorate, 2012 - 2013
TEMEL BİYOMEDİKAL ENSTRÜMANTASYON, Postgraduate, 2012 - 2013
KAS BİYOFİZİĞİ, Doctorate, 2012 - 2013

Advising Theses

Turan B., Magnolol ve Honokiol Kompleksin İnsülin Dirençli Kardiyomiyositlerdeki Etkilerinin Elektrofizyolojik ve Biyokimyasal Yöntemlerle İncelenmesi, Postgraduate, G.Kazan(Student), Continues
Turan B., İndüklenmiş Pluripotent Kök Hücre Eldesinde Çinkonun Rolü, Postgraduate, K.GENÇ(Student), 2022
Turan B., İnsülin Direnci Geliştirilmiş H9C2 Hücre Hatlarında Epigenetik Değişimlerin ÇinkoTransporterları Üzerindeki Rolü, Postgraduate, İ.AKTAY(Student), 2022
TURAN B., Lipoik asitin yaşlı memeli kalp fonksiyonuna etkisinin yaşlanma modeli geliştirilmiş ventriküler H9C2 hücre hattında mitokondri fonksiyonu incelenerek değerlendirilmesi, Postgraduate, G.SENCAR(Student), 2021
TURAN B., Memeli atriyal hücrelerinde ATP-duyarlı katyon kanallarının yaşlanmaya bağlı kalp fonksiyon değişikliklerindeki rolünün incelenmesi, Doctorate, S.DEĞİRMENCİ(Student), 2021
TURAN B., KEREVİTTE (Astacus leptodactylus) BULUNAN VOLTAJ KAPILI Na+ KANALININ HOMOLOJİ VE MOLEKÜLER DİNAMİK YÖNTEMLERİYLE MODELLENMESİ, Doctorate, H.AKTAŞ(Student), 2021
TURAN B., Çinko-taşıyıcıları ve mitokondri ilişkisinin yaşlanmaya bağlı kalp fonksiyon bozukluğundaki rolünün incelenmesi, Doctorate, Y.OLĞAR(Student), 2018
TURAN B., İnsülin direnci gelişmiş sıçan kardiyomiyositlerinde sarkolemmal iyon kanallarının fonksiyon ve yapısının elektrofizyolojik ve moleküler biyolojik tekniklerle incelenmesi, Doctorate, A.DURAK(Student), 2017
TURAN B., Ventriküler kardiyomiyositlerde hücre içi serbest ZN+2 artışının K+-kanal akımlarına etkisinin incelenmesi, Postgraduate, S.DEĞİRMENCİ(Student), 2016
TURAN B., Çinko ve selenyumun antioksidan özelliklerinin oksidatif stres indüklü DNA radikallerinin immün-spin-yakalama yöntemi kullanılarak incelenmesi, Postgraduate, V.DELETİOĞLU(Student), 2015
TURAN B., Diyabet kaynaklı kalp fonksiyon bozukluğunda hücre içi iyon derişimleri ile fosfodiesterazların aktiviteleri arasındaki ilişkinin tip 2 obez-sıçan modelinde incelenmesi, Doctorate, E.NUR(Student), 2015
TURAN B., İzole memeli ventriküler miyositlerinde sodyum-hidrojen değiş-tokuşcusunun hipoksik duyarlılığı ATP'nin rolü, Doctorate, H.BURAK(Student), 2014
TURAN B., Kalp fonksiyon bozukluğunda rol oynayan hücre içi Zn2+ derişimi ve kontrolsüz sarkoplazmik retikulum Ca2+ sızıntısı arasındaki ilişkinin elektrofizyolojik ve biyokimyasal tekniklerle incelenmesi, Doctorate, E.TUNCAY(Student), 2014
TURAN B., Suda çözünen nanokitosan sentezi, Doctorate, A.GEÇER(Student), 2010
TURAN B., Diyabetik kardiyomiyopatide MikroRNA'ların rolü, Postgraduate, S.SERDAR(Student), 2010
TURAN B., Kardiyomiyositlerde hücre içi sodyum homeostazında rol oynayan faktörlerin incelenmesi, Doctorate, A.BİLGİNOĞLU(Student), 2010
TURAN B., Yaşlanmaya bağlı kalp fonksiyon değişikliklerinde beta adrenerjik sistemin rolünün elektrofizyolojik yöntemlerle incelenmesi, Postgraduate, A.AYTAÇ(Student), 2008
TURAN B., Diyabetik kardiyomiyopatide seçici olmayan beta blokör etkilerinin elektrofizyolojik yöntemlerle incelenmesi, Postgraduate, E.TUNCAY(Student), 2008

TURAN B., Matriks metalloproteazların diyabetik sıçanların endotel bağımlı damar fonksiyonlarındaki rolü, Postgraduate, E.NUR(Student), 2008
TURAN B., Diyabetik sıçan kalbi kalsiyum homeostazını düzenleyen mekanizmaların incelenmesi, Doctorate, N.YARAŞ(Student), 2007
TURAN B., Deneysel diyabette gözlenen vasküler fonksiyon bozukluklarında sodyum selenat uygulamasının etki mekanizmalarının incelenmesi, Postgraduate, E.TANRIVERDİ(Student), 2007
TURAN B., Yaşlanmanın kalpteki beta-adrenerjik reseptör blokör yanıtları üzerindeki etkisinin incelenmesi, Postgraduate, P.ŞAM(Student), 2006
TURAN B., Diyabetik kardiyomiyopatide β-adrenerjik reseptör yanıtları, Postgraduate, A.BİLGİNOĞLU(Student), 2005
TURAN B., Deneysel diyabetik kardiyomiyopatide hücre içi serbest iyon derişimi, Doctorate, M.AYAZ(Student), 2004
TURAN B., Anjiotensin 2 reseptörünün deneysel diyabetik sıçan kalbi elektriksel aktivitesindeki rolü, Doctorate, S.ÖZDEMİR(Student), 2004
TURAN B., E vitamininin deneysel diyabetik sıçanların atriyal aktiviteleri üzerindeki etkilerinin elektrofizyolojik yöntemlerle incelenmesi, Postgraduate, T.TUNÇER(Student), 2000
TURAN B., Hücre dışı adenozin trifosfat uygulamasının izole kardiyak miyositlerdeki etkilerinin tüm-hücre Patch Clamp yöntemi ile incelenmesi, Doctorate, M.UĞUR(Student), 2000
TURAN B., Selenyumun deneysel diyabetik sıçan kalbi ventrikül kasının elektriksel ve mekaniksel aktivitesi üzerine etkileri, Postgraduate, M.AYAZ(Student), 1999
TURAN B., Selenyum ve E vitamini eksikliği: Papiller kasın elektrofizyolojik ve mekaniksel fonksiyonları, Postgraduate, M.KILIÇ(Student), 1997
TURAN B., Ventrikül kasılmasında oksidan stresin rolünün elektrofizyolojik olarak incelenmesi, Doctorate, Ö.HOTOMAROĞLU(Student), 1996

Jury Memberships

Post Graduate, Post Graduate, The American University in Cairo, November, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Lokman Hekim Üniversitesi, November, 2023
Post Graduate, Post Graduate, The American University in Cairo, November, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Lokman Hekim Üniversitesi, November, 2023
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Lokman Hekim Üniversitesi, October, 2023
Doctorate, Doctorate, Lokman Hekim Üniversitesi, September, 2023
Doctorate, Doctorate, Lokman Hekim Üniversitesi, July, 2023
Doctorate, Doctorate, Hacettepe Üniversitesi, July, 2023
Doctorate, Doctorate, The American University in Cairo, June, 2023
Associate Professor Exam, Associate Professor Exam, Lokman Hekim Üniversitesi, May, 2023
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Lokman Hekim Üniversitesi, January, 2023
Doctorate, Doctorate, Lokman Hekim University, December, 2022
Associate Professor Exam, Associate Professor Exam, Lokman Hekim Üniversitesi, December, 2022
Committee Of Expert, Committee Of Expert, Lokman Hekim Üniversitesi, November, 2022
Doctorate, Doctorate, Lokman Hekim Üniversitesi, September, 2022
Post Graduate, Post Graduate, Ankara Üniversitesi, April, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karamanoğlu Mehmetbey Üniversitesi, February, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Hacettepe Üniversitesi, January, 2022

Post Graduate, Post Graduate, The American University in Cairo, November, 2021
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Sağlık Bilimleri Üniversitesi, September, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Hacettepe Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Hacettepe Üniversitesi, January, 2021
Doctorate, Doctorate, The American University in Cairo, March, 2020

Taught Courses And Trainings

Turan B., Diyabet, 2022 - 2022

Research Infrastructure Information

Turan B., 6550 MÜKEMMELLİYET MERKEZLERİ ALT YAPI OLUŞTURMA , December 2022
Turan B., Moleküler ve Hücre Araştırma Laboratuvarının kurulması, January 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Cardioprotective role of a magnolol and honokiol complex in the prevention of doxorubicin-mediated cardiotoxicity in adult rats**
Aktay I., BİTİRİM C. V., OLĞAR Y., DURAK A., TUNCAY E., BİLLUR D., AKÇALI K. C., TURAN B.
Molecular and Cellular Biochemistry, vol.479, no.2, pp.337-350, 2024 (SCI-Expanded)

II. **The Role of Zinc on Liver Fibrosis by Modulating ZIP14 Expression Throughout Epigenetic Regulatory Mechanisms**
Aksoy-Ozer Z. B., BİTİRİM C. V., TURAN B., AKÇALI K. C.
Biological Trace Element Research, 2024 (SCI-Expanded)

III. **An increase in intercellular crosstalk and electrotonic coupling between cardiomyocytes and nonmyocytes reshapes the electrical conduction in the metabolic heart characterized by short QT intervals in ECGs.**
Billur D., Olgar Y., Durak A., Yozgat A. H., Unay S., Tuncay E., Turan B.
Cell biochemistry and function, 2023 (SCI-Expanded)

IV. **Overexpression of Slc30a7/ZnT7 increases the mitochondrial matrix levels of labile Zn2+ and modifies histone modification in hyperinsulinemic cardiomyoblasts**
TUNCAY E., Aktay I., TURAN B.
Journal of Trace Elements in Medicine and Biology, vol.78, 2023 (SCI-Expanded)

V. **Morphological and Functional Analysis of Cardiac Ameliorations in Elderly Rats Supplemented with a Magnolol Extract Complex Análisis Morfológico y Funcional de las Mejoras Cardíacas en Ratas Ancianas Suplementadas con un Complejo de Extracto de Magnolol**
BİLLUR D., Aktay I., Bayram P., BİTİRİM C. V., TURAN B.
International Journal of Morphology, vol.41, no.3, pp.915-925, 2023 (SCI-Expanded)

VI. **The cardioprotective role of sirtuins is mediated in part by regulating KATP channel surface expression**
TUNCAY E., Gando I., Huo J., Yepuri G., Sampler N., TURAN B., Yang H., Ramasamy R., Coetzee W. A.
American journal of physiology. Cell physiology, vol.324, no.5, 2023 (SCI-Expanded)

VII. **Liraglutide provides cardioprotection through the recovery of mitochondrial dysfunction and oxidative stress in aging hearts**

DURAK A., TURAN B.
Journal of Physiology and Biochemistry, vol.79, no.2, pp.297-311, 2023 (SCI-Expanded)

VIII. **Comparisons of pleiotropic effects of SGLT2 inhibition and GLP-1 agonism on cardiac glucose intolerance in heart dysfunction**
TURAN B., DURAK A., OLĞAR Y., TUNCAY E.
Molecular and Cellular Biochemistry, vol.477, no.11, pp.2609-2625, 2022 (SCI-Expanded)

IX. **Intracellular Redistribution of Left Ventricular Connexin 43 Contributes to the Remodeling of Electrical Properties of the Heart in Insulin-resistant Elderly Rats**
BİLLUR D., OLĞAR Y., TURAN B.
Journal of Histochemistry and Cytochemistry, vol.70, no.6, pp.447-462, 2022 (SCI-Expanded)

X. **Bimodal Effects of P2Y12 Antagonism on Matrix Metalloproteinase–Associated Contractile Dysfunction in İnsulin-Resistant Mammalian Heart**
OLĞAR Y., TUNCAY E., BİLLUR D., Turan B.
Biological Trace Element Research, vol.200, no.5, pp.2195-2204, 2022 (SCI-Expanded)

XI. **STIM1-Orai1 interaction mediated calcium influx activation contributes to cardiac contractility of insulin-resistant rats**
DURAK A., OLĞAR Y., Genc K., TUNCAY E., AKAT F., DEĞİRMENCİ S., Turan B.
BMC CARDIOVASCULAR DISORDERS, vol.22, no.1, 2022 (SCI-Expanded)

XII. **Cardioprotective effect of extracellular vesicles derived from ticagrelor-pretreated cardiomyocyte on hyperglycemic cardiomyocytes through alleviation of oxidative and endoplasmic reticulum stress**
BİTİRİM C. V., Ozer Z. B., Aydos D., Genc K., Demirsoy S., AKÇALI K. C., Turan B.
SCIENTIFIC REPORTS, vol.12, no.1, 2022 (SCI-Expanded)

XIII. **Insulin-induced recovery in KCNQ1/KCNE1-current accelerates the ventricular action potential repolarization in insulin-resistant aged-rats via affecting beta(3)-adrenergic receptors**
OLĞAR Y., DURAK A., BİTİRİM C. V., TUNCAY E., Turan B.
BIOPHYSICAL JOURNAL, vol.121, no.3, pp.87, 2022 (SCI-Expanded)

XIV. **Insulin acts as an atypical KCNQ1/KCNE1-current activator and reverses long QT in insulin-resistant aged rats by accelerating the ventricular action potential repolarization through affecting the β3-adrenergic receptor signaling pathway**
OLĞAR Y., DURAK A., BİTİRİM C. V., TUNCAY E., Turan B.
Journal of Cellular Physiology, vol.237, no.2, pp.1353-1371, 2022 (SCI-Expanded)

XV. **Modulatory role of OKG on delayed rectifier potassium channels in ventricular cardiomyocytes from metabolic syndrome rats**
TUNCAY E., OLĞAR Y., DURAK A., BİTİRİM C. V., Turan B.
BIOPHYSICAL JOURNAL, vol.121, no.3, 2022 (SCI-Expanded)

XVI. **Glucagon-like peptide-1 receptor agonist treatment of high carbohydrate intake-induced metabolic syndrome provides pleiotropic effects on cardiac dysfunction through alleviations in electrical and intracellular Ca2+ abnormalities and mitochondrial dysfunction**
DURAK A., AKKUŞ E., GÖKÇAY CANPOLAT A., TUNCAY E., ÇORAPÇIOĞLU D., Turan B.
Clinical and Experimental Pharmacology and Physiology, vol.49, no.1, pp.46-59, 2022 (SCI-Expanded)

XVII. **IMproving Preclinical Assessment of Cardioprotective Therapies (IMPACT) criteria: guidelines of the EU-CARDIOPROTECTION COST Action**
Lecour S., Andreadou I., Bøtker H. E., Davidson S. M., Heusch G., Ruiz-Meana M., Schulz R., Zuurbier C. J., Ferdinandy P., Hausenloy D. J., et al.
Basic Research in Cardiology, vol.116, no.1, 2021 (SCI-Expanded)

XVIII. **Ticagrelor alleviates high-carbohydrate intake induced altered electrical activity of ventricular cardiomyocytes by regulating sarcoplasmic reticulum–mitochondria miscommunication**
OLĞAR Y., DURAK A., Degirmenci S., TUNCAY E., BİLLUR D., ÖZDEMİR S., Turan B.
Molecular and Cellular Biochemistry, vol.476, no.10, pp.3827-3844, 2021 (SCI-Expanded)

XIX. **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**

Aydemir D., Salman N., Karimzadehkhouei M., Alaca B. E., TURAN B., Ulusu N. N.
Biological Trace Element Research, vol.199, no.7, pp.2644-2652, 2021 (SCI-Expanded)

XX. **Molecular and Electrophysiological Role of Diabetes-Associated Circulating Inflammatory Factors in Cardiac Arrhythmia Remodeling in a Metabolic-Induced Model of Type 2 Diabetic Rat**
Zayas-Arrabal J., Alquiza A., TUNCAY E., Turan B., Gallego M., Casis O.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.22, no.13, 2021 (SCI-Expanded)

XXI. **Mitochondrial ROS and mitochondria-targeted antioxidants in the aged heart**
Bou-Teen D., Kaludercic N., Weissman D., Turan B., Maack C., Di Lisa F., Ruiz-Meana M.
FREE RADICAL BIOLOGY AND MEDICINE, vol.167, pp.109-124, 2021 (SCI-Expanded)

XXII. **Interrelated In Vitro Mechanisms of Sibutramine-Induced Cardiotoxicity**
Alyu F., OLĞAR Y., DEĞİRMENCİ S., Turan B., ÖZTÜRK Y.
Cardiovascular Toxicology, vol.21, no.4, pp.322-335, 2021 (SCI-Expanded)

XXIII. **The role of labile Zn2+ and Zn2+-transporters in the pathophysiology of mitochondria dysfunction in cardiomyocytes**
Turan B., TUNCAY E.
MOLECULAR AND CELLULAR BIOCHEMISTRY, vol.476, no.2, pp.971-989, 2021 (SCI-Expanded)

XXIV. **The Relationship Between Metabolic Syndrome Development and Tissue Trace Elements Status and Inflammatory Markers**
Akdas S., TURAN B., DURAK A., ARIBAL AYRAL P., YAZIHAN N.
Biological Trace Element Research, vol.198, no.1, pp.16-24, 2020 (SCI-Expanded)

XXV. **Titin and CK2α are New Intracellular Targets in Acute Insulin Application-Associated Benefits on Electrophysiological Parameters of Left Ventricular Cardiomyocytes From Insulin-Resistant Metabolic Syndrome Rats**
DURAK A., BİTİRİM C. V., TURAN B.
Cardiovascular Drugs and Therapy, vol.34, no.4, pp.487-501, 2020 (SCI-Expanded)

XXVI. **Olive oil attenuates oxidative damage by improving mitochondrial functions in human keratinocytes**
YAZIHAN N., Akdas S., OLĞAR Y., Biriken D., TURAN B., ÖZKAYA M. T.
Journal of Functional Foods, vol.71, 2020 (SCI-Expanded)

XXVII. **Ageing-associated increase in SGLT2 disrupts mitochondrial/sarcoplasmic reticulum Ca2+ homeostasis and promotes cardiac dysfunction**
OLĞAR Y., TUNCAY E., DEĞİRMENCİ S., BİLLUR D., Dhingra R., Kirshenbaum L., TURAN B.
Journal of Cellular and Molecular Medicine, vol.24, no.15, pp.8567-8578, 2020 (SCI-Expanded)

XXVIII. **MitoTEMPO provides an antiarrhythmic effect in aged-rats through attenuation of mitochondrial reactive oxygen species**
OLĞAR Y., BİLLUR D., TUNCAY E., TURAN B.
Experimental Gerontology, vol.136, 2020 (SCI-Expanded)

XXIX. **The role of mitochondrial reactive oxygen species, NO and H2S in ischaemia/reperfusion injury and cardioprotection**
Andreadou I., Schulz R., Papapetropoulos A., TURAN B., Ytrehus K., Ferdinandy P., Daiber A., Di Lisa F.
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Turan B., TUBITAK Project, İnsülin direnci gelişmiş yaşlı sıçan kalp fonksiyon bozukluğunda insülin uygulamasının rolünün elektrofizyolojik ve moleküler-biyokimyasal yaklaşımlarla incelenmesi, 2019 - 2022
Turan B., TUBITAK Project, Çinko- Taşıyıcıları ve Mitokondri İlişkisinin Yaşlanmaya Bağlı Kalp Fonksiyon Bozukluğundaki Rolünün İncelenmesi, 2018 - 2021
Can B., Kızıl Ş., Bayram P., Nakkaş H., Billur D., Turan B., Durak A., Olğar Y., Project Supported by Higher Education Institutions, Metabolik Sendromlu Sıçan Kortikal Nöronlarında Endoplazmik Retikulum Stresiyle İlgili Faktörlerin Araştırılması, 2016 - 2018
Billur D., Bayram P., Kızıl Ş., Olğar Y., Durak A., Can B., Turan B., Project Supported by Higher Education Institutions, Metabolik Sendromlu Sıçanlarda Hipokampusun Nörogenezine Etkili Faktörlerin İncelenmesi, 2016 - 2018
TURAN B., Project Supported by Higher Education Institutions, İnsülin direnci gelişmiş sıçan kardiyomiyositlerinde iyon kanallarının fonksiyon ve yapısının elektrofizyolojik ve moleküler biyolojik tekniklerle incelenmesi, 2016 - 2018
Turan B., TUBITAK Project, Hipertrofik kardiyomiyositlerde Beta3 adrenerjik reseptör aktivasyonunun hücre içi Ca2 ve Na homeostazları üzerindeki rolünün incelenmesi, 2015 - 2018
Turan B., TUBITAK Project, Pioglitazon Ve Kuersetinin Metabolik Sendromlu Sıçan Kardiyomiyositlerinde Hücre Içi Na Homeostazına Etkilerinin Incelenmesi, 2015 - 2017
Turan B., TUBITAK Project, Kardiyomiyositlerde endoplazmik retikulum stresi hücre içi serbest Zn2 regülasyonu ve mitokondri arasındaki çapraz ilişkinin kalp fonksiyon bozukluğu patolojisindeki rolünün incelenmesi, 2013 - 2017
Turan B., TUBITAK Project, Kardiyomyositlerde Endoplazmik Retikülüm stresi hücre içi serbest Zn Regülasyonu ve mitokondri arsındaki çarpraz ilişkinin kalp fonksiyon bozukluğu patolojisindeki rolünün incelenmesi, 2013 - 2017
TURAN B., Other International Funding Programs, Kardiyomiyositlerde endoplazmik retikulum stresi, hücre içi serbest Zn2 regülasyonu ve mitokondri arasındaki çapraz ilişkinin kalp fonksiyon bozukluğu patolojisindeki rolünün incelenmesi, 2013 - 2017
TURAN B., TUBITAK Project, Hipertrofik Kalp Yetmezliği Modelinde Rho Kinaz ın Rolünün Elektrofizyolojik Yöntemlerle İncelenmesi, 2013 - 2016

Turan B., Project Supported by Higher Education Institutions, Streptozotosin İle İndüklenen Diyabetik Kardiyomiyopatide Aralıklı (İntermittent)Hipoksinin Etkilerinin Fonksiyonel ve Moleküler Tekniklerle İncelenmesi, 2013 - 2016
TURAN B., Project Supported by Higher Education Institutions, Streptozotosin İle İndüklenen Diyabetik Kardiyomiyopatide Aralıklı İntermittent Hipoksinin Etkilerinin Fonksiyonel Ve Moleküler Tekniklerle İncelenmesi, 2013 - 2016
TURAN B., Project Supported by Higher Education Institutions, Kardiyomiyosit ve nöronal kültüre hücrelerde hücre içi serbest iyonların değişimlerinin karşılaştırmalı olarak incelenmesi, 2012 - 2014
Turan B., TUBITAK Project, Hipoksinin normal ve hiperglisemik HL 1 kardiyomiyositlerinde Na H değiş tokuşcusu ve Na HCO3 ko transportu aktive ve ekspresyonu üzerine etkileri Hücreiçi sinyal yolaklarında miRNA ların ve S nitrolizasyonun rolü, 2010 - 2013
Turan B., Project Supported by Higher Education Institutions, Hipoksinin fare HL 1 kardiyomiyositlerinde H homeostazı üzerindeki hızlı ve uzun süreli etkileri, 2011 - 2012
Turan B., TUBITAK Project, Tip I diyabetik kardiyomiyopatide yeni bir tedavi hedefi Ryanodin reseptörleri, 2008 - 2011
Turan B., TUBITAK Project, Kardiyomiyositlerde Hücreiçi Zn2 Homeostazı Hücreiçi Serbest Zn2 ve Matriks Metalloproteinazların Diyabetli Sıçan Kalbi Uyarılma Kasılma Çiftlenimindeki Rolü, 2008 - 2011
Turan B., TUBITAK Project, Diyabetik kardiyomiyopatide tedavi için yeni ilaç hedefleri, 2006 - 2008
Turan B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, iki foton floresan laser mikroskoskopi hücresel görüntüleme sistemi, 2006 - 2007
Turan B., TUBITAK Project, Diyabetik sıçan kardiyomiyositlerinde beta adrenerjik reseptör yanıtları, 2005 - 2007
Turan B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Hücreiçi iyon görüntüleme sistemi, 2000 - 2001
Turan B., TUBITAK Project, Antioksidanların diyabette gözlenen çeşitli organ fonksiyon bozukluklarına etkilerinin elektrofizyolojik biyomekanik ve moleküler biyofizik yöntemlerle incelenmesi, 1997 - 1999
Turan B., TUBITAK Project, Kalp ve damarda endotel ve kas hücresi ilişkisinin incelenmesi, 1994 - 1997
TURAN B., TUBITAK Project, Kalp ve damarda endotel ve kas hücresi ilişkilerinin incelenmesi, 1994 - 1997
Turan B., TUBITAK Project, Kalp fonksiyon bozukluğunda rol alan kontrolsüz sarkoplazmik retikulum Ca2 sızıntısı ile ilgili moleküler mekanizmalar, 1995 - 1996

Activities in Scientific Journals

ANATOLIAN JOURNAL OF CARDIOLOGY, Assistant Editor/Section Editor, 2021 - Continues
BIOLOGICAL TRACE ELEMENT RESEARCH, Assistant Editor/Section Editor, 2020 - Continues
MOLECULAR AND CELLULAR BIOCHEMISTRY, Assistant Editor/Section Editor, 2020 - Continues
FRONTIERS IN PHYSIOLOGY, Assistant Editor/Section Editor, 2020 - Continues
Ankara Medical Journal, Advisory Committee Member, 2020 - Continues
Cardiovascular Toxicology, Assistant Editor/Section Editor, 2000 - Continues

Memberships / Tasks in Scientific Organizations

International Academy of Cardiovascular Sciences European Section, Board Member, 2010 - Continues, Hungary
International Academy of Cardiovascular Sciences, Principal Member, 2005 - Continues, Canada
International Society of Heart Research, Principal Member, 2003 - Continues, Germany
American Biophysical Society, Member, 1995 - Continues, United States Of America
Türk Biyofizik Derneği, Principal Member, 1987 - Continues, Turkey

Scientific Refereeing

Research Project To Be Started., Bilimsdel etik kurul, Lokman Hekim University, Turkey, December 2023

Research Project To Be Started., LHU Sağlık Bilim. Fak., Lokman Hekim University, Turkey, November 2023
Research Project To Be Started., LHU sağlık Bilim. Fak., Lokman Hekim University, Turkey, September 2023
Research Project To Be Started., LHU Ergoterapi, Lokman Hekim University, Turkey, September 2023
Research Project To Be Started., LHU Ankara hastanesi, Lokman Hekim University, Turkey, September 2023
Research Project To Be Started., LHU sağlık Bilim. Fak., Lokman Hekim University, Turkey, September 2023
Research Project To Be Started., Ankara Üniv. Kök Hücre Enst., Lokman Hekim University, Turkey, August 2023
ACTA PHYSIOLOGICA SCANDINAVICA, SCI Journal, July 2023
HISTOLOGY AND HISTOPATHOLOGY, SCI Journal, July 2023
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, July 2023
JOURNAL OF BIOMECHANICS, SCI Journal, July 2023
JOURNAL OF PHARMACEUTICAL ANALYSIS, SCI Journal, July 2023
Research Project To Be Started., Lokman Hekim Üniversitesi Dil ve Konuşma Terapisi Bölümü, Lokman Hekim University, Turkey, July 2023
Research Project To Be Started., Lokman Hekim Üniv. Sağlık Bilimleri Fakültesi, Lokman Hekim University, Turkey, July 2023
Research Project To Be Started., Lokman Hekim Üniversitesi KBB AD, AKAY Hastanesi , Lokman Hekim University, Turkey, July 2023
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, June 2023
BIOCHIMICA ET BIOPHYSICA ACTA - MOLECULAR BASIS OF DISEASE, SCI Journal, June 2023
CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, SCI Journal, May 2023
JOURNAL OF GENERAL PHYSIOLOGY, SCI Journal, May 2023
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, May 2023
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Lokman Hekim University, Turkey, May 2023
Research Project To Be Started., Bilimsel etik kurul, Lokman Hekim University, Turkey, May 2023
Research Project To Be Started., LHU Sağlık Bilim. Fak., Lokman Hekim University, Turkey, May 2023
Research Project To Be Started., Ankara 29 Mayıs Devlet Hastanesi, Lokman Hekim University, Turkey, May 2023
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE, SCI Journal, April 2023
FRONTIERS IN PHARMACOLOGY, SCI Journal, April 2023
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, April 2023
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, April 2023
Research Project To Be Started., LHU Sağlık Bilimleri fakültesi, Lokman Hekim University, Turkey, April 2023
ACTA PHYSIOLOGICA SCANDINAVICA, National Scientific Refreed Journal, March 2023
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, March 2023
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, March 2023
Research Project To Be Started., Lokman Hekim Üniv. Ankara Hastanesi, Lokman Hekim University, Turkey, March 2023
Research Project To Be Started., Altındağ/Necatibey mesleki ve teknik Anadolu lisesi, Lokman Hekim University, Turkey, March 2023
FRONTIERS IN CARDIOVASCULAR MEDICINE, SCI Journal, February 2023
CARDIOVASCULAR TOXICOLOGY, SCI Journal, February 2023
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, February 2023
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, February 2023
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, February 2023
HISTOLOGY AND HISTOPATHOLOGY, SCI Journal, January 2023
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, January 2023
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, January 2023
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Lokman Hekim University, Turkey, January 2023
PLOS ONE, SCI Journal, October 2022
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, October 2022
CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, SCI Journal, October 2022

CARDIOVASCULAR TOXICOLOGY, SCI Journal, October 2022
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, October 2022
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, August 2022
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, August 2022
TUBITAK Project, 2236 - Program for Supporting International Researchers, Lokman Hekim University, Turkey, August 2022
Kocatepe Tıp Dergisi , National Scientific Refreed Journal, July 2022
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, June 2022
Horizon Europe Project, Horizon Europe Project, INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE , France, June 2022
Horizon Europe Project, Horizon Europe Project, CENTRE HOSPITALIER REGIONAL ET UNIVERSITAIRE DE BR , France, June 2022
Horizon Europe Project, Horizon Europe Project, KAROLINSKA INSTITUTET , Sweden, June 2022
Horizon Europe Project, Horizon Europe Project, UNIVERSITAETSMEDIZIN BERLIN , Germany, June 2022
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, May 2022
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, April 2022
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, April 2022
JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH, SCI Journal, April 2022
Ankara Universitesi Tip Fakultesi Mecmuasi, National Scientific Refreed Journal, April 2022
Ankara Universitesi Tip Fakultesi Mecmuasi, National Scientific Refreed Journal, March 2022
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, March 2022
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, SCI Journal, March 2022
MOLECULAR AND CELLULAR BIOCHEMISTRY, National Scientific Refreed Journal, March 2022
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, March 2022
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, March 2022
Ankara Universitesi Tip Fakultesi Mecmuasi , National Scientific Refreed Journal, March 2022
TUBITAK Project, 2232 - Dormitory Research Scholarship Program, Bahcesehir University, Turkey, March 2022
CARDIOVASCULAR TOXICOLOGY, SCI Journal, February 2022
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, February 2022
CARDIOVASCULAR RESEARCH, SCI Journal, February 2022
CARDIOVASCULAR TOXICOLOGY, SCI Journal, February 2022
FREE RADICAL BIOLOGY AND MEDICINE, SCI Journal, January 2022
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, January 2022
MOLECULAR AND CELLULAR BIOCHEMISTRY, SCI Journal, January 2022
BIOLOGICAL TRACE ELEMENT RESEARCH, SCI Journal, January 2022
CARDIOVASCULAR RESEARCH, SCI Journal, January 2022
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, January 2022
ANATOLIAN JOURNAL OF CARDIOLOGY, SCI Journal, January 2022
TUBITAK Project, 1002 - Quick Support Program, Yozgat Bozok University, Turkey, October 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Karadeniz Technical University, Turkey, October 2021

Scientific Consultations

Üniversite, Project Consultancy, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey, 2023 - Continues
Üniversite, Project Consultancy, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey, 2023 - Continues
Ankara Üniversitesi, Project Consultancy, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey, 2023 - Continues

Üniversite, Project Consultancy, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey, 2021 - Continues
Üniversite, Project Consultancy, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey, 2021 - Continues
HORIZON -HLT-2022-TOOL, Project Consultancy, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey, 2022 - 2022

Tasks In Event Organizations

Turan B., 4.Uluslararası 33.Ulusal Biyofizik Kongresi, Adıyaman, 2022, Scientific Congress, Adıyaman, Turkey, Eylül 2022
Turan B., Temel bilimlerin epidemiyolojik gözlemsel araştırmalarda önemi , Workshop Organization, Ankara, Turkey, Mart 2022
Turan B., Translasyonel Tıp Alanında Proje Hazırlama, Yazma ve Yürütme Eğitimi Ankara 2022, Workshop Organization, Ankara, Turkey, Şubat 2022

Scientific Research / Working Group Memberships

Cardıoınvo, Universita Degli Studi di Trieste, İtalya, https://www.icgeb.org/, 2024 - Continues
Eu Meta-Heart, Hochschule für Musik Würzburg, Almanya, https://www.cost.eu/actions/CA22169/, 2023 - Continues

Metrics

Publication: 301
Citation (WoS): 2966
Citation (Scopus): 3701
H-Index (WoS): 30
H-Index (Scopus): 33

Congress and Symposium Activities

Agenda of the 1st Management Committee Meeting Action CA22169 - EU-METAHEART, Audience, Brussels, Belgium, 2023
Importance of scientific research in medicine, Invited Speaker, Ankara, Turkey, 2022
8th European Section Meeting of the International Academy of Cardiovascular Sciences , Invited Speaker, Szeged, Hungary, 2022
North American Meeting of the International Society for Heart Research and International Academy of Cardiovascular Sciences, Invited Speaker, Winnipeg, Canada, 2022
4th International 33rd National Biophysics Congress 2022 , Moderator, Adıyaman, Turkey, 2022
4th International 33rd National Biophysics Congress 2022 , Panelists, Adıyaman, Turkey, 2022
9th EU-CARDIOPROTECTION COST Action Final MC/WG meeting , Invited Speaker, Coimbra, Portugal, 2022
66th Biophysical Society Annual meeting, Attendee, California, United States Of America, 2022
Pathophysiology at the Heart of Medicine, Invited Speaker, Timisoara, Romania, 2021
CA20104 – Network on evidence-based physical activity in old age [PhysAgeNet], Audience, Piran, Slovenia, 2021
2nd Conditioning Medicine Virtual Workshop, Audience, London, England, 2021
32. Ulusal Biyofizik Kongresi, Moderator, Adana, Turkey, 2021
8th EU-CARDIOPROTECTION COST Action WG Meeting, Invited Speaker, Barcelona, Spain, 2021
7th MEETING OF THE EUROPEAN SECTION AND8th MEETING OF THE NORTH AMERICAN SECTION OF THE INTERNATIONAL ACADEMY OF CARDIOVASCULAR SCIENCES (IACS), Invited Speaker, Banja Luka, Bosnia And

Herzegovina, 2021

Representation and Promotion Activities

Institutional Promotion, Okyanus koleji öğrencileri, Turkey, Ankara, 2023 - 2023
Institutional Promotion, Okyanus koleji, Turkey, Ankara, 2023 - 2023
Institutional Representation, Lokman Hekim Üniversitesi, Turkey, Ankara, 2022 - 2023
Institutional Representation, Lokman Hekim, Turkey, Ankara, 2022 - 2023
Institutional Representation, Lokman Hekim Üniversitesi, Turkey, Ankara, 2022 - 2023
Institutional Representation, Lokman Hekim Üniversitesi Tıp fakültesi, Turkey, Ankara, 2022 - 2023
Institutional Representation, Lokman Hekim Üniversitesi, Turkey, Ankara, 2022 - 2023
Institutional Representation, Lokman Hekim Üniv. Tıp Fakültesi, Turkey, Ankara, 2022 - 2023
Institutional Representation, Lokman Hekim Üniversitesi, Turkey, Ankara, 2022 - 2023
Institutional Promotion, Lokman Hekim üniversitesi, Turkey, Ankara, 2022 - 2022
Institutional Promotion, Lokman Hekim üniv., Turkey, Ankara, 2022 - 2022
Institutional Promotion, Lokman Hekim Üniv., Turkey, Ankara, 2022 - 2022