Prof. MEHMET UĞUR

Personal Information

Web: https://avesis.ankara.edu.tr/mugur

International Researcher IDs
ORCID: 0000-0001-7840-3334
Publons / Web Of Science ResearcherID: AAI-7220-2020
ScopusID: 23037022400
Yoksis Researcher ID: 7991

Education Information

Doctorate, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 1998 - 2000
Expertise In Medicine, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 1989 - 1992
Associate Degree, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 1982 - 1988

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Hücre dışı adenozin trifosfat uygulamasının izole kardiyak miyositlerdeki etkilerinin tüm-hücre patch clamp yönteemi ile incelenmesi., Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2000
Doctorate, Çeşitli uyaranlarla aktive edilmiş insan periferik monositlerinde lipooksijenaz ve siklooksijenaz metabolitlerinin düzeyleri ve birbirilerinin oluşumu üzerine olan etkilerinin araştırılması, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 1992

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences

Academic Titles / Tasks

Professor, Ankara University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1998 - Continues

Courses

BİYOFİZİK, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
Dolaşım Sistemi Biyofiziği, Postgraduate, 2016 - 2017, 2015 - 2016

Spektroskopik Yöntemler, Doctorate, 2015 - 2016
Fizyolojik Sİnyallerin Analizi, Doctorate, 2015 - 2016
Temel Elektronik, Postgraduate, 2015 - 2016
Biyo Elektriğe Giriş, Postgraduate, 2015 - 2016
Hücre Zarı Biyofiziği, Doctorate, 2015 - 2016

Advising Theses

UĞUR M., Memeli atriyal hücrelerinde ATP-duyarlı katyon kanallarının yaşlanmaya bağlı kalp fonksiyon değişikliklerindeki rolünün incelenmesi, Doctorate, S.DEĞİRMENCİ(Student), 2021
UĞUR M., İkinci Trimesterde Sağlıklı ve Kromozomal Anomalili Gebelerde Nazal Kemik, Ense Pilisi, Böbrek, Karaciğer, Barsak, Plasenta ve Uterusun B-Mod Histogram, Strain ve Shear Wave Elastogram Yöntemleri ile İncelenmesi, Doctorate, G.NAZ(Student), 2019
UĞUR M., P2X reseptörlerinin aktive ettiği membran geçirgenliğinde seçiciliğinin, tür farklarının ve gedik-kavşak proteinlerinin rolünün incelenmesi, Doctorate, Ş.CANKURTARAN(Student), 2015
UĞUR M., Beta-arrestin-2 proteininin P2X7 reseptörü ile etkileşimi, Postgraduate, S.UYSAL(Student), 2013
UĞUR M., Farklı kültür hücrelerinde agonist uyarımı ile oluşan kalsiyum salınımının ileri yöntemlerle incelenmesi, Doctorate, F.ÇİÇEK(Student), 2010
UĞUR M., Lanthanumun hücre içi kalsiyum yanıtını inhibe edici özelliğinin kalsiyum sinyal mekanizması üzerindeki etkisinin farklı hücre tiplerinde incelenmesi, Postgraduate, E.ÖZGE(Student), 2008
UĞUR M., Memeli kültür hücrelerinde hücre içi kalsiyum sinyalinde görev alan elemanların entegre bir sistem olarak incelenmesi, Postgraduate, E.ÖZGÜR(Student), 2008
UĞUR M., P2X7 reseptörlerinin aktive ettiği porların geçirgenlik özelliklerinin incelenmesi, Postgraduate, Ş.CANKURTARAN(Student), 2008
UĞUR M., Memeli hücre kültüründe ATP uygulaması ile oluşan kuantal kalsiyum salınımında SERCA'nın rolü, Postgraduate, F.AMBER(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A Mechanism-Based Approach to P2X7 Receptor Action**
UĞUR M., UĞUR Ö.
MOLECULAR PHARMACOLOGY, vol.95, no.4, pp.442-450, 2019 (SCI-Expanded)
II. **The interplay between plasma membrane and endoplasmic reticulum Ca(2+)ATPases in agonist-induced temporal Ca2+ dynamics**
ÇİÇEK F., Ozgur E. O., Ozgur E., UĞUR M.
JOURNAL OF BIOENERGETICS AND BIOMEMBRANES, vol.46, no.6, pp.503-510, 2014 (SCI-Expanded)
III. **Effects of carbenoxolone, niflumic acid, NPPB and probenecid on P2X7 mediated YOPRO-1 and lucifer yellow influx in RAW 264.7 and mouse P2X7 transfected HEK 293 cells**
SAYAR K., Cankurtaran-Sayar S., UĞUR M.
PURINERGIC SIGNALLING, vol.10, no.4, pp.760, 2014 (SCI-Expanded)
IV. **The characteristics of contractions to hyperosmolar stress in rat aorta**
Buharalioglu C. K., UĞUR M., AKAR F.
International Journal of Pharmacology, vol.7, no.3, pp.340-348, 2011 (SCI-Expanded)
V. **Intracellular free zinc during cardiac excitation-contraction cycle: calcium and redox dependencies**
TUNCAY E., Bilginoglu A., Sozmen N. N., Zeydanli E. N., UĞUR M., Vassort G., Turan B.
CARDIOVASCULAR RESEARCH, vol.89, no.3, pp.634-642, 2011 (SCI-Expanded)
VI. **Cardioprotective effects of 44Bu, a newly synthesized compound, in rat heart subjected to ischemia/reperfusion injury**
Basgut B., KAYKI MUTLU G., Bartosova L., ÖZAKCA GÜNDÜZ I., Seymen A., KANDİLCİ H. B., UĞUR M., Turan B.,

ÖZÇELİKAY A. T.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.640, no.1-3, pp.117-123, 2010 (SCI-Expanded)

VII. **Intracellular Zn2+ Release Modulates Cardiac Ryanodine Receptor Function and Cellular Activity**
Zeydanli E. N., TUNCAY E., Seymen A. A., Bilginoglu A., Sozen N., UĞUR M., Vassort G., Turan B.
BIOPHYSICAL JOURNAL, vol.98, no.3, 2010 (SCI-Expanded)

VIII. **P2X7 receptor activates multiple selective dye-permeation pathways in RAW 264.7 and human embryonic kidney 293 cells**
Cankurtaran-Sayar S., SAYAR K., UĞUR M.
Molecular Pharmacology, vol.76, no.6, pp.1323-1332, 2009 (SCI-Expanded)

IX. **Timing of induction of cardiomyocyte differentiation for in vitro cultured mesenchymal stem cells: a perspective for emergencies**
Tokcaer-Keskin Z., AKAR A. R., Ayaloglu-Butun F., Terzioglu-Kara E., Durdu S., Ozyurda U., UĞUR M., AKÇALI K. C.
CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, vol.87, no.2, pp.143-150, 2009 (SCI-Expanded)

X. **Cell adhesion modulates 5-HT1D and P2Y receptor signal trafficking differentially in LTK-8 cells**
ÇİÇEK F., UĞUR Ö., SAYAR K., UĞUR M.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.590, no.1-3, pp.12-19, 2008 (SCI-Expanded)

XI. **Stimulation of P2X7 receptors activates multiple permeability pathways with different selectivities in HEK-293 and RAW 264.7 cells**
Sayar S., Sayar K., Ugur M.
FUNDAMENTAL & CLINICAL PHARMACOLOGY, vol.22, pp.63, 2008 (SCI-Expanded)

XII. **ATP/UTP activate cation-permeable channels with TRPC3/7 properties in rat cardiomyocytes**
Alvarez J., Coulombe A., Cazorla O., Ugur M., Rauzier J., Magyar J., Mathieu E., Boulay G., Souto R., Bideaux P., et al.
AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY, vol.295, no.1, 2008 (SCI-Expanded)

XIII. **The role of gender differences in beta-adrenergic receptor responsiveness of diabetic rat heart**
BİLGİNOĞLU A., ÇİÇEK F., Ugur M., GÜRDAL H., Turan B.
MOLECULAR AND CELLULAR BIOCHEMISTRY, vol.305, no.1-2, pp.63-69, 2007 (SCI-Expanded)

XIV. **P2X7 receptors utilize different pathways for fluorescent dye uptake in different cell types**
Ugur M., Cankurtaran S., Sayar K.
ACTA PHARMACOLOGICA SINICA, vol.27, pp.404, 2006 (SCI-Expanded)

XV. **Effects of diabetes on ryanodine receptor Ca release channel (RyR2) and Ca2+ homeostasis in rat heart**
YARAŞ N., Ugur M., ÖZDEMİR S., GÜRDAL H., Purali N., Lacampagne A., Vassort G., Turan B.
DIABETES, vol.54, no.11, pp.3082-3088, 2005 (SCI-Expanded)

XVI. **Altered mechanical and electrical activities of the diabetic heart: Possible use of new therapeutics?**
Turan B., UĞUR M., Ozdemir S., Yaras N.
Experimental and Clinical Cardiology, vol.10, no.3, pp.189-195, 2005 (SCI-Expanded)

XVII. **The role of nitric oxide synthase in reduced vasocontractile responsiveness induced by prolonged alpha(1)-adrenergic receptor stimulation in rat thoracic aorta**
GÜRDAL H., Can A., Ugur M.
BRITISH JOURNAL OF PHARMACOLOGY, vol.145, no.2, pp.203-210, 2005 (SCI-Expanded)

XVIII. **Treatment with AT(1) receptor blocker restores diabetes-induced alterations in intracellular Ca2+ transients and contractile function of rat myocardium**
ÖZDEMİR S., Ugur M., GÜRDAL H., Turan B.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.435, no.1, pp.166-174, 2005 (SCI-Expanded)

XIX. **Candesartan treatment restores diabetes-induced changes in [Ca2+](i) transients of cardiomyocytes and papillary muscle contractile function**
Ugur M., ÖZDEMİR S., Turan B., Gurdal G.
FUNDAMENTAL & CLINICAL PHARMACOLOGY, vol.18, pp.81, 2004 (SCI-Expanded)

XX. **Effects of selenium on altered mechanical and electrical cardiac activities of diabetic rat**
Ayaz M., ÖZDEMİR S., Ugur M., Vassort G., Turan B.

ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.426, no.1, pp.83-90, 2004 (SCI-Expanded)

XXI. **Vegetable oils used as vitamin E vehicle affect the electrical activity of the rat heart**
ÖZDEMİR S., Ayaz M., Tuncer T., Ugur M., Turan B.
PHYSIOLOGICAL RESEARCH, vol.52, no.6, pp.767-771, 2003 (SCI-Expanded)

XXII. **Toxic concentrations of selenite shortens repolarization phase of action potential in rat papillary muscle**
Ugur M., Ayaz M., ÖZDEMİR S., Turan B.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.89, no.3, pp.227-238, 2002 (SCI-Expanded)

XXIII. **Selenite restores diminished K+-currents in diabetic rat heart**
Turan B., Ayaz M., ÖZDEMİR S., Ugur M., Vassort G.
JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, vol.34, no.6, 2002 (SCI-Expanded)

XXIV. **Effect of diabetes and selenite on contractile responses and ss-adrenergic signaling in rat hearts**
ÖZDEMİR S., Ayaz M., Ugur Ö., Ugur M., Turan B.
JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, vol.34, no.6, 2002 (SCI-Expanded)

XXV. **A novel nonspecific cationic current activated by extracellular ATP**
Ugur M., Alvarez J., Hamplova J., Vassort G.
JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, vol.34, no.6, 2002 (SCI-Expanded)

XXVI. **Coupling of a P2Z-like purinoceptor to a fatty acid-activated K+ channel in toad gastric smooth muscle cells**
Zou H., Ugur M., Drummond R., Singer J.
JOURNAL OF PHYSIOLOGY-LONDON, vol.534, no.1, pp.59-70, 2001 (SCI-Expanded)

XXVII. **Adenosine triphosphate alters the selenite-induced contracture and negative inotropic effect on cardiac muscle contractions**
Ugur M., Turan B.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.79, no.3, pp.235-245, 2001 (SCI-Expanded)

XXVIII. **Sodium selenite treatment prevents the prolongation of the cardiomyocyte action potential in streptozotocin induced diabetes in rat.**
Ayaz M., Ugur M., Turan B.
BIOPHYSICAL JOURNAL, vol.80, no.1, 2001 (SCI-Expanded)

XXIX. **A novel nonspecific current activated by extracellular ATP in rat cardiomyocytes.**
Ugur M., Vassort G.
BIOPHYSICAL JOURNAL, vol.80, no.1, 2001 (SCI-Expanded)

XXX. **Dietary selenium and vitamin E intakes alter beta-adrenergic response of L-type Ca-current and beta-adrenoceptor-adenylate cyclase coupling in rat heart**
Sayar K., Ugur M., GÜRDAL H., ONARAN H. O., Hotomaroglu O., Turan B.
JOURNAL OF NUTRITION, vol.130, no.4, pp.733-740, 2000 (SCI-Expanded)

XXXI. **(S)-albuterol increases intracellular free calcium by muscarinic receptor activation and a phospholipase C dependent mechanism in airway smooth muscle**
Mitra S., Ugur M., Ugur Ö., Goodman H., McCullough J., Yamaguchi H.
MOLECULAR PHARMACOLOGY, vol.53, no.3, pp.347-354, 1998 (SCI-Expanded)

XXXII. **P2X7 purinoceptor expression in Xenopus oocytes is not sufficient to produce a pore-forming P2Z-like phenotype**
Petrou S., Ugur M., Drummond R., Singer J., Walsh J.
FEBS LETTERS, vol.411, no.2-3, pp.339-345, 1997 (SCI-Expanded)

XXXIII. **Extracellular ATP increases the activity of a fatty acid- and stretch-activated K+ channel: Possible role fatty acids as second messengers**
Zou H., Ugur M., Walsh J., Singer J.
BIOPHYSICAL JOURNAL, vol.72, no.2, 1997 (SCI-Expanded)

XXXIV. **P2X7 receptors expressed in Xenopus oocytes do not form non-selective pores.**
Ugur M., Petrou S., Singer J., Walsh J.
BIOPHYSICAL JOURNAL, vol.72, no.2, 1997 (SCI-Expanded)

XXXV. **An ATP-gated cation channel with some P2Z-like characteristics in gastric smooth muscle cells of toad**
Ugur M., Drummond R., Zou H., Sheng P., Singer J., Walsh J.
JOURNAL OF PHYSIOLOGY-LONDON, vol.498, no.2, pp.427-442, 1997 (SCI-Expanded)

XXXVI. **A P2X receptor from gastric smooth muscle cells.**
Ugur M., Singer J., Walsh J.
BIOPHYSICAL JOURNAL, vol.70, no.2, 1996 (SCI-Expanded)

XXXVII. **FURTHER-STUDIES ON THE POTENT POSITIVE CHRONOTROPIC EFFECT OF (15S)-15-METHYL-PROSTAGLANDIN-E1 ON THE GUINEA-PIG ISOLATED SPONTANEOUSLY BEATING RIGHT ATRIUM**
SOYDAN A., UGUR M., YAZAR O., TURKER R.
GENERAL PHARMACOLOGY-THE VASCULAR SYSTEM, vol.23, no.2, pp.187-191, 1992 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **P2X7 Reseptörü Splays Varyantlarının Aktive Ettiği Membran Geçirgenlik Özelliklerinin Spektroskopik Olarak İncelenmesi**
CANKURTARAN SAYAR Ş., SAYAR K., UĞUR M.
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019

II. **P2X7 Reseptörünün Aktive Ettiği Geçirgenlik Yolaklarının Moleküler Biyolojik ve Farmakolojik Yöntemlerle Ayrıştırılması ve İncelenmesi**
CANKURTARAN SAYAR Ş., SAYAR K., UĞUR M.
28.-29. Ulusal Biyofizik Kongresi, 2017, Turkey, 6 - 09 September 2017

III. **Nanokitosanın hücreye floresan boya girişine etkisi**
GEÇER A., SAYAR Ş., SAYAR K., YILDIZ N., UĞUR M., TURAN B., ÇALIMLI A.
Dokuzuncu Ulusal Kimya Mühendisliği Kongresi, Ankara, Turkey, 22 - 25 June 2010, pp.639-640

IV. **Cardioprotective effects of 44Bu, a newly synthesized compound, in rat heart subjected to ischemia/reperfusion injury**
Özçelikay A. T., Başgut B., Kaykı Mutlu G., Özakca Gündüz I., Kandilci H. B., Uğur M., Turan B.
ISHR 20. World Congress, Kyoto, Japan, 13 - 16 May 2010

V. **Role of sex differences in beta-adrenergic receptor responsiveness of diabetic rat heart**
BİLGİNOĞLU A., Amber F., Ugur M., GÜRDAL H., Turan B.
19th World Congress of the International-Society-for-Heart-Research, Bologna, Italy, 22 - 25 June 2007, vol.42

VI. **Parameters of calcium sparks are altered in ventricular cardiomyocytes from type 1 diabetic rats**
YARAŞ N., ÖZDEMİR S., Ugur M., GÜRDAL H., Purali N., Lacampagne A., Vassort G., Turan B.
25th Annual Scientific Session of the European Section of the International-Society-for-Heart-Research, Tromso, Norway, 21 - 25 June 2005, vol.38, pp.1076-1077

VII. **Diabetes-induced alterations in parameters of calcium sparks of cardiomyocytes from rats**
YARAŞ N., ÖZDEMİR S., Ugur M., GÜRDAL H., Purali N., Lacampagne A., Vassort G., Turan B.
27th Annual Meeting of the American Section of the International-Society-of-Heart-Research, Louisiana, United States Of America, 12 - 15 May 2005, vol.38, pp.816

VIII. **Interpretation of relevance of sodium-calcium exchange in action potential of diabetic rat heart by mathematical model**
YARAŞ N., Ayaz M., ÖZDEMİR S., Ugur M., Turan B.
24th Annual Scientific Sessions of the European-Section of the International-Society-for-Heart-Research, Dresden, Germany, 2 - 06 June 2004, vol.36, pp.765

Memberships / Tasks in Scientific Organizations

COST Action CA21130, Purinergic Receptors as Therapeutic Targets, Executive Board Member, 2022 - Continues, Turkey

Metrics

Publication: 45
Citation (WoS): 667
Citation (Scopus): 727
H-Index (WoS): 13
H-Index (Scopus): 14