

## Asst. Prof. Kenan Yıldızhan

### Personal Information

**Email:** kenanyildizhan@yyu.edu.tr

**Web:** <https://avesis.yyu.edu.tr/kenanyildizhan>

### International Researcher IDs

ScholarID: 6Kfv714AAAAJ

ORCID: 0000-0002-6585-4010

Publons / Web Of Science ResearcherID: AAK-4864-2020

ScopusID: 57215577672

Yoksis Researcher ID: 225456



### Education Information

Doctorate, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Biyofizik Anabilim Dalı, Turkey 2017 - 2021

Postgraduate, Gaziantep University, Tıp Fakültesi/ Sağlık Bilimleri Enstitüsü, Biyofizik , Turkey 2014 - 2016

Postgraduate, Van Yüzüncü Yil University, Eğitim Bilimleri Enstitüsü, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü/Biyoloji Eğitimi Bilim Dalı, Turkey 2011 - 2014

Undergraduate, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü/Biyoloji Eğitimi Anabilim Dalı, Turkey 2005 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Yüksek Performanslı Sıvı Kromatografisi (HPLC) Kursu, SÜLEYMAN DEMİREL ÜNİVERSİTESİ YETEM-YENİLİKÇİ TEKNOLOJİLER UYGULAMA VE ARAŞTIRMA MERKEZİ, 2019

Education Management and Planning, DNA izolasyonu Metodları ve Agaroz Jel Elektroforezi, SÜLEYMAN DEMİREL ÜNİVERSİTESİ YETEM-YENİLİKÇİ TEKNOLOJİLER UYGULAMA VE ARAŞTIRMA MERKEZİ, 2019

Education Management and Planning, DENEY HAYVANLARI KULLANIMI SERTİFİKASI, DENEY HAYVANLARI KULLAVAN YÜZÜNCÜ YIL ÜNİVERSİTESİ SÜREKLİ EĞİTİM MERKEZİ MÜDÜRLÜĞÜ, 2016

### Dissertations

Doctorate, İN VİTRO PARKİNSON HASTALIĞI (MPP+) MODELİNDE SİTOZOLİK GLUTATYON YOKSUNLUĞUNUN MİKROGLİA TRPM2 KATYON KANAL AKTİVASYONU ÜZERİNDEKİ ETKİLERİNİN MOLEKÜLER TEKNİKLERLE ARAŞTIRILMASI, Suleyman Demirel University, Sağlık Bilimleri Enstitüsü, Biyofizik Anabilim Dalı, 2021

Postgraduate, RADYASYONA MARUZ BIRAKILAN RATLARDA MEYDANA GETİRİLEN DOKU HASARINA KARŞI ISIRGAN OTU TOHUMU EKSTRAKTİNİN KORUYUCU ETKİNLİĞİNİN ARAŞTIRILMASI, Gaziantep University, Sağlık Bilimleri Enstitüsü, Biyofizik, 2016

Postgraduate, Türkiye'de Yayılış Gösteren Sterigmomum M.Bieb. (Hırıksüsün) (Brassicaceae) Türlerinin Morfolojik Ve Taksonomik Yönden İncelenmesi , Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü/Biyoloji Eğitimi Anabilim Dal, 2014

## Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics

## Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues

Research Assistant, Van Yüzüncü Yil University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2015 - 2022

Research Assistant, Suleyman Demirel University, Tıp Fakültesi, Temel Tıp Bölümü, 2017 - 2020

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

- I. **Involvement of TRPM2 Channel on Doxorubicin-Induced Experimental Cardiotoxicity Model: Protective Role of Selenium.**  
Yıldızhan K., Huyut Z., Altındağ F.  
Biological trace element research, 2022 (Peer-Reviewed Journal)
- II. **Protective role of selenium on MPP+ and homocysteine-induced TRPM2 channel activation in SH-SY5Y cells**  
Yıldızhan K., Nazıroğlu M.  
JOURNAL OF RECEPTOR AND SIGNAL TRANSDUCTION RESEARCH, vol.42, no.4, pp.399-408, 2022 (Peer-Reviewed Journal)
- III. **The involvement of TRPM2 on the MPP+-induced oxidative neurotoxicity and apoptosis in hippocampal neurons from neonatal mice: protective role of resveratrol**  
Yıldızhan K., Çınar R., Nazıroğlu M.  
NEUROLOGICAL RESEARCH, vol.44, no.7, pp.636-644, 2022 (Peer-Reviewed Journal)
- IV. **Melatonin and Selenium Suppress Docetaxel-Induced TRPV1 Activation, Neuropathic Pain and Oxidative Neurotoxicity in Mice**  
Ertlav K., Nazıroğlu M., Ataizi Z., Yıldızhan K.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.4, pp.1469-1487, 2021 (Peer-Reviewed Journal)
- V. **Selenium prevents interferon-gamma induced activation of TRPM2 channel and inhibits inflammation, mitochondrial oxidative stress, and apoptosis in microglia**  
Akyuva Y., Nazıroğlu M., Yıldızhan K.  
METABOLIC BRAIN DISEASE, vol.36, no.2, pp.285-298, 2021 (Peer-Reviewed Journal)
- VI. **Resveratrol diminishes bisphenol A-induced oxidative stress through TRPM2 channel in the mouse kidney cortical collecting duct cells**  
Çiğ B., Yıldızhan K.  
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.40, no.6, pp.570-583, 2020 (Peer-Reviewed Journal)
- VII. **Morphine Induces Apoptosis, Inflammation, and Mitochondrial Oxidative Stress via Activation of TRPM2 Channel and Nitric Oxide Signaling Pathways in the Hippocampus**  
Osmanhoğlu Ö., Yıldırım M., Akyuva Y., Yıldızhan K., Nazıroğlu M.  
MOLECULAR NEUROBIOLOGY, vol.57, no.8, pp.3376-3389, 2020 (Peer-Reviewed Journal)
- VIII. **Glutathione Depletion and Parkinsonian Neurotoxin MPP+-Induced TRPM2 Channel Activation Play Central Roles in Oxidative Cytotoxicity and Inflammation in Microglia**  
Yıldızhan K., Nazıroğlu M.

MOLECULAR NEUROBIOLOGY, vol.57, no.8, pp.3508-3525, 2020 (Peer-Reviewed Journal)

**IX. Selenium and Neurological Diseases: Focus on Peripheral Pain and TRP Channels**

Nazıroğlu M., Öz A., Yıldızhan K.

CURRENT NEUROPHARMACOLOGY, vol.18, no.6, pp.501-517, 2020 (Peer-Reviewed Journal)

**X. Radioprotective profile of *Urtica dioica* L. seed extract on oxidative DNA-damage in liver tissue and whole blood of radiation-administered rats**

Çakır T., Yıldızhan K., Huyut Z., Uyar A., Arihan O.

BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.56, 2020 (Peer-Reviewed Journal)

**XI. Protective effects of *Urtica dioica* L. seed extract on liver tissue injury and antioxidant capacity in irradiated rats**

Yıldızhan K., DEMİRTAŞ Ö. C. , UYAR A., Huyut Z., Çakır T., Keleş Ö. F. , Yener Z.

BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.56, 2020 (Peer-Reviewed Journal)

## Articles Published in Other Journals

**I. Quipazine treatment exacerbates oxidative stress in glutamate-induced HT-22 neuronal cells**

Yıldızhan K., Öztürk A.

THE EUROPEAN RESEARCH JOURNAL, vol.8, no.4, pp.521-528, 2022 (Peer-Reviewed Journal)

**II. Investigation of the effect of paracetamol against glutamate-induced cytotoxicity in C6 glia cells**

Doğan M., Yıldızhan K.

Cumhuriyet Science Journal, vol.42, no.4, pp.789-794, 2021 (Peer-Reviewed Journal)

**III. Protective role of selenium against bisphenol-A induced oxidative stress, cytokine generation and apoptosis in SH-SY5Y neuronal cell line**

Yıldızhan K.

Journal of Cellular Neuroscience and Oxidative Stress, vol.12, no.3, pp.955-962, 2020 (Peer-Reviewed Journal)

**IV. The Effect of Nettle Seed Extract on Malondialdehyde, Copper,Zinc and Superoxide Dismutase Levels in Kidney Tissue of Rats Exposed To Ionising Radiation**

AHLATCI A., YILDIZHAN K., HUYUT Z., HUYUT M. T. , ÇAKIR T.

ABCResearch, vol.2, no.1, pp.1-6, 2020 (Peer-Reviewed Journal)

**V. Microglia and its role in neurodegenerative diseases**

Yıldızhan K., Nazıroğlu M.

Journal of Cellular Neuroscience and Oxidative Stress, vol.11, no.2, pp.861-873, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

**I. DÜŞÜK DOZ RADYOTERAPİNİN COVID-19 PROİNFLAMATUAR SİTOKİN FIRTINASI ÜZERİNDEKİ ETKİSİ**

Çakır T., Tunçel N., Yıldızhan K.

in: Sağlık Bilimlerinde Araştırma ve Değerlendirmeler, 2021/Mayıs, EVEREKLIÖĞLU Cem,GÜLMEZ Duygu Sevim, Editor, Gece Kitaplığı, Ankara, pp.35-50, 2021

## Refereed Congress / Symposium Publications in Proceedings

**I. Investigation of TRPM2 cation channel activation in PTZ-induced SH-SY5Y cells by patch-clamp technique: Regulatory role of valproic acid**

Ahlatcı A., Bektaş M., Tülüce Y., Yıldızhan K.

7th International Brain Research School, Isparta, Turkey, 27 June - 03 July 2022, vol.14, no.4, pp.19

**II. Involvement of TRPM2 Channel in Microglia Cell Activation: A review of literature**

Yıldızhan K., Nazıroğlu M.

6th International Brain Research School, Isparta, Turkey, 21 - 27 June 2021, vol.12, no.5, pp.12

- III. **Resveratrol modulates MPP+ -induced TRPM2 channel activity in hippocampal neurons of mice**  
Yıldızhan K., Çınar R., Nazıroğlu M.  
5th International Brain Research School, Isparta, Turkey, 16 - 22 November 2020, vol.12, pp.11
- IV. **İşınlanmış Siçanların Böbrek Dokusunda, Isırgan Otu Tohumu Ekstraktı'nın Malondialdehit, Bakır, Süperoksit Dismutaz ve Çinko Düzeyleri Üzerine Etkisi**  
Ahlacı A., YILDIZHAN K., Huyut Z., HUYUT M. T.  
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.34-35
- V. **İn vitro Parkinson Modelinde Hiperhomosisteinine Karşı TRPM2 Katyon Kanalinin Rolü ve Selenyumun Koruyucu Etkisinin Araştırılması**  
Yıldızhan K., NAZIROĞLU M.  
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 09 October 2019 - 12 October 2019, pp.45
- VI. **Neonatal Fare Beyninden Primer Mikroglia Hücre İzolasyonu**  
Yıldızhan K., NAZIROĞLU M.  
31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.31-32
- VII. **İYONİZE RADYASYONA MARUZ KALAN SIÇANLARIN BEYİN DOKUSUNDA ENGİNAR (Cynara scolymus L.) EKSTRAKTI OKSİDAN/ANTİOKSİDAN DENGESİ ÜZERİNE KORUYUCU ETKİ GÖSTEREBİLİR Mİ?**  
YILDIZHAN K., AHLATCI A., HUYUT Z., HUYUT M. T.  
ULUSLARARASI MÜZİK DANS VE SAĞLIK KONGRESİ 11 - 13 EKİM 2018, Van, Turkey, 10 - 13 October 2018, pp.41-52
- VIII. **Bisphenol A induces oxidative stress and apoptosis through TRPM2 channel activation in mouse kidney cortical collecting duct cells: Protective effect of resveratrol**  
ÇİĞ B., Yıldızhan K., Nazıroğlu M.  
7th Oxidative Stress, Calcium Signaling and TRP Channels World Congress, Antalya, Turkey, 20 - 23 April 2018, vol.10, no.2, pp.736-737
- IX. **Effects of UV-C exposure on apoptosis, mitochondrial depolarization and ROS production in ARPE-19 eye cells**  
Nazıroğlu M., ÖZ A., Yıldızhan K., ÇELİK Ö.  
7th Oxidative Stress, Calcium Signaling and TRP Channels World Congress, Antalya, Turkey, 20 - 23 April 2018, vol.10, no.2, pp.721
- X. **RADİOPROTEKTİF PROFİLİ OF URİTİCA DİOİCA L. SEED EXTRACT ON OXİDATİVE DNA DAMAGE İN LİVER TİSSUE AND WHOLE BLOOD OF RADİATİON INDUCED RATS**  
Çakır T., Yıldızhan K., Huyut Z., Uyar A.  
SANKO University Innovation in Medicine Summit-3, Gaziantep, Turkey, 11 - 13 May 2017, pp.25
- XI. **DETERMINATION OF THE EFFECTS OF SEED EXTRACT (URTİCA DİOİCA L.) ON IRRADIATED RATS BRAIN TISSUES**  
Yıldızhan K., Demirtaş Ö. C. , Uyar A., Huyut Z., Çakır T., Yener Z., Keleş Ö. F.  
Innovation in medicine summit-3, Gaziantep, Turkey, 11 - 13 May 2017, pp.123
- XII. **Protective Effects of Stinging Nettle (Urtica dioica L.) in Irradiation rats**  
Yıldızhan K., Demirtaş Ö. C. , Uyar A., Huyut Z., Çakır T., Yener Z., Keleş Ö. F.  
INNOVATION IN MEDICINE SUMMIT 2 ( Innovation in medicine and biosciences), Gaziantep, Turkey, 5 - 07 May 2016, pp.94-95
- XIII. **MORPHOLOGICAL AND TAXONOMICAL STUDIES ON STERIGMOSTEMUM M.BIEB. (HIRIKSUSUN) (BRASSICACEAE) SPECIES IN TURKEY**  
Yıldızhan K., Ünal M.  
ULUSAL BOTANİK BİTKİ BİLİMİ KONGRESİ, Antalya, Turkey, 25 - 28 October 2014, pp.4

## Supported Projects

Çakır T., Altındağ F., Keskin S., Yıldızhan K., Project Supported by Higher Education Institutions, Investigation of the

Effects of Alpha Lipoic Acid on Testicular Tissue in Rats Exposed to 2.45 GHz Radiation, 2021 - 2022

Yıldızhan K., Huyut Z., Altındağ F., Project Supported by Higher Education Institutions, Doksorubisin ile İndüklenen Deneysel Kardiyotoksisite Modelinde Selenyumun Koruyucu Etkisi ve TRPM2 Katyon Kanalının Bu Mekanizmadaki Rolü, 2021 - 2022

Yıldızhan K., Nazıroğlu M., Project Supported by Higher Education Institutions, İn Vitro Parkinson Hastalığı (MPP+) Modelinde Sitozolik Glutatyon Yoksunluğunun Mikroglia TRPM2 Katyon Kanal Aktivasyonu Üzerindeki Etkilerinin Moleküler Tekniklerle Araştırılması, 2019 - 2021

Nazıroğlu M., Bal R., Yürekli V. A. , Çelik Ö., TUBITAK Project, TRPM2 Kanallarının Epilepsi Nörobiyolojisindeki Rolünün Araştırılması" (Bursiyer), 2016 - 2019

Yener Z., Uyar A., Yıldızhan K., Keleş Ö. F. , Çakır T., Huyut Z., Project Supported by Higher Education Institutions, Gamma radyasyonuna maruz bırakılan ratlarda meydana getirilen doku hasarına karşı Isırgan otu tohumu (Urtica dioica seed) ekstraktı ve Enginar (Cynara scolymus) ekstraktının koruyucu etkinliğinin araştırılması., 2016 - 2017

## Activities in Scientific Journals

Journal of Cellular Neuroscience and Oxidative Stress, Assistant Editor, 2018 - Continues

## Memberships / Tasks in Scientific Organizations

International Society for Neurochemistry (ISN), Member, 2020 - Continues, Turkey

European Society for Neurocehmistry (ESN), Member, 2020 - Continues

Federation of European Neuroscience Societies (FENS), Member, 2020 - Continues

Türk Biyofizik Derneği, Member, 2019 - Continues

## Scientific Refereeing

ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, Journal Indexed in SCI-E, September 2022

Journal of Cellular Neuroscience and Oxidative Stress , Other Indexed Journal, September 2022

EXPERIMENTAL CELL RESEARCH, SCI Journal, June 2022

NEUROCHEMISTRY INTERNATIONAL, Journal Indexed in SCI-E, June 2022

Biochemistry Research International, Journal Indexed in ESCI, May 2022

Journal of Cellular Neuroscience and Oxidative Stress, Other Indexed Journal, May 2022

CELL COMMUNICATION AND SIGNALING, Journal Indexed in SCI-E, April 2022

ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, Journal Indexed in SCI-E, April 2022

Journal of Cellular Neuroscience and Oxidative Stress, Other Indexed Journal, March 2022

JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, Journal Indexed in SCI-E, February 2022

VAN TIP DERGİSİ, National Scientific Refreed Journal, February 2022

BIOLOGIA, Journal Indexed in SCI-E, February 2022

METABOLIC BRAIN DISEASE, Journal Indexed in SCI-E, January 2022

Mugla Journal of Science and Technology, National Scientific Refreed Journal, September 2021

CHEMICO-BIOLOGICAL INTERACTIONS, Journal Indexed in SCI-E, September 2021

Eastern Journal of Medicine, Other Indexed Journal, September 2021

The European Research Journal, Other Indexed Journal, August 2021

JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, Journal Indexed in SCI-E, June 2021

Journal of Cellular Neuroscience and Oxidative Stress, Other Indexed Journal, June 2021

ALL LIFE, Journal Indexed in SCI-E, March 2021

Metabolic Brain Disease, Journal Indexed in SCI-E, February 2021

Journal of Cellular Neuroscience and Oxidative Stress, Other Indexed Journal, December 2020

## Tasks In Event Organizations

Yıldızhan K., The 7th International Brain Research School (BRS-2022), (<https://2022.brs.org.tr/index.php/org/>) (Düzenleme Kurulu Üyesi), Scientific Congress, Isparta, Turkey, Temmuz 2022

Yıldızhan K., 6th International Brain Research School-21 and 27 June 2021, Isparta /TURKEY- (<http://2021.brs.org.tr/>). (Düzenleme Kurulu Üyesi), Scientific Congress, Isparta, Turkey, Haziran 2021

Yıldızhan K., 5th International Brain Research School, 16-22 November 2020, Isparta, Turkey. (<http://2020.brs.org.tr/>) (Düzenleme Kurulu Üyesi), Scientific Congress, Isparta, Turkey, Kasım 2020

Yıldızhan K., 4th International Brain Research School, 24-30 June 2019, Isparta, Turkey. (<http://2019.brs.org.tr/>) (Düzenleme Kurulu Üyesi), Scientific Congress, Isparta, Turkey, Haziran 2019

Yıldızhan K., 3rd International Brain Research School, 25 June-1 July 2018, Isparta, Turkey. (<http://2018.brs.org.tr//index.php/home-page/>) (Düzenleme Kurulu Üyesi), Scientific Congress, Isparta, Turkey, Temmuz 2018

Yıldızhan K., 7th Oxidative Stress, Calcium Signaling and TRP Channels World Congress. 20-23 April 2018, Alanya, Antalya, Turkey. ([2018.cmos.org.tr](http://2018.cmos.org.tr/)) (Düzenleme Kurulu Üyesi), Scientific Congress, Antalya, Turkey, Nisan 2018

Yıldızhan K., 2nd International Brain Research School, 6-12 November 2017, Isparta, Turkey. (<http://www.cmos.org.tr/brs2017/en/>) (Düzenleme Kurulu Üyesi), Scientific Congress, Isparta, Turkey, Kasım 2017

## Metrics

Publication: 31

Citation (WoS): 90

Citation (Scopus): 94

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