

## Asst. Prof. Gülsena BAYDAŞ

### Personal Information

**Email:** gulsena.baydas@medipol.edu.tr

**Web:** <https://avesis.medipol.edu.tr/gulsena.baydas>

### International Researcher IDs

ScholarID: zfhpqEIAAAAJ

ORCID: 0000-0003-3671-6257

Yoksis Researcher ID: 247936

### Education

Doctorate, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, Tıbbi Fizyoloji (Dr), Turkey 2018 - 2019

Postgraduate, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, Sinir Bilim (YI) (Tezli), Turkey 2015 - 2018

Undergraduate, Ihsan Dogramaci Bilkent University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 2009 - 2015

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, THE ROLE OF VAGAL NEURONS IN THE GUT-BRAIN CONNECTION, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, 2024

Postgraduate, Endojen opioid reseptörlerin dinamiğinin araştırılması, Istanbul Medipol University, Sağlık Bilimleri Enstitüsü, Sinir Bilim (YI) (Tezli), 2018

### Research Areas

Health Sciences

### Academic Positions

Research Assistant, Istanbul Medipol University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2016 - Continues

### Courses

#### Undergraduate

Physiology, Undergraduate, 2024 - 2025

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **Quercetin/polyethyleneimine modified gold nanoconjugates inhibit apoptosis and ROS production induced by hydrogen peroxide in DRG sensory neurons**  
Özçiçek İ., Baydaş G., Erim Ü. C., Üstündağ Ü. V.  
Journal of Pharmaceutical Sciences, vol.113, no.10, pp.3088-3099, 2024 (SCI-Expanded)
- II. **Development of BDNF/NGF/IKVAV Peptide Modified and Gold Nanoparticle Conductive PCL/PLGA Nerve Guidance Conduit for Regeneration of the Rat Spinal Cord Injury.**  
Özçiçek İ., Aysit N., Balcikanli Z., Aytürk N., Aydeger A., Baydaş G., Şerif Aydın M., Altıntaş E., Erim Ü. C.  
Macromolecular bioscience, vol.24, no.5, 2024 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design of IKVAV peptide/gold nanoparticle decorated, micro/nano-channeled PCL/PLGA film scaffolds for neuronal differentiation and neurite outgrowth**  
Aydeger A., Aysit N., Baydaş G., Çakıcı Ç., Erim Ü. C., Arpa M. D., Özçiçek İ.  
Biomaterials Advances, vol.152, 2023 (Scopus)

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Omurilik hasarı rejenerasyonu için biyomalzeme temelli nöral kılavuz kanalı dizaynı**  
ÖZÇİÇEK İ., AYŞİT N., BALÇIKANLI Z., AYTÜRK N., AYDEĞER A., BAYDAŞ G., AYDIN M. Ş., Altıntaş E., ERİM Ü. C.  
I. Ulusal Biyomedikal Kongresi, Muğla, Turkey, 20 - 24 November 2024, (Summary Text)
- II. **INVESTIGATION OF THE PROTECTIVE EFFECTS OF GOLD NANOPARTICLES COATED WITH QUERCETIN/POLYETHYLENEIMINE AGAINST OXIDATIVE STRESS IN SENSORY NEURONS**  
ÖZÇİÇEK İ., BAYDAŞ G., ERİM Ü. C., ÜSTÜNDAĞ Ü. V.  
XXXI. Balkan Klinik Laboratuvar Federasyonu ve 35. Ulusal Biyokimya Kongresi, Turkey, 28 October - 01 November 2024, (Summary Text)
- III. **Design of Micro/Nano-Patterned and Conductive PCL/PLGA Scaffolds for the Oriented Growth of Motor Neurons**  
Özçiçek İ., Aysit N., Aydeğer A., Baydaş G.  
5th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 2 - 05 November 2023, pp.9, (Summary Text)
- IV. **Development of nerve guidance conduit modified with gold nanoparticles and neural factors for rat spinal cord injury regeneration**  
Özçiçek İ., Aysit N., Balcikanlı Z., Aytürk N., Aydeğer A., Baydaş G., Aydın M. Ş., Altıntaş E., Erim Ü. C.  
XVIII. Tıbbi Biyoloji ve Genetik Kongresi, Ankara, Turkey, 26 - 29 October 2023, pp.1-5, (Summary Text)
- V. **DEVELOPMENT OF MICRO/NANO-PATTERNED TISSUE SCAFFOLDS FOR NEURAL TISSUE ENGINEERING APPLICATIONS**  
ÖZÇİÇEK İ., AYŞİT N., AYDEĞER A., BAYDAŞ G.  
IV. BASKENT INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY STUDIES, Ankara, Turkey, 05 August 2023, (Summary Text)
- VI. **Enhanced Axonal Guidance of DRG Sensory Neurons on Gold Nanorod Modified, Conductive Micro/Nano-channeled PCL/PLGA Scaffolds**  
Özçiçek İ., Aysit N., Aydeğer A., Baydaş G.  
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 3 - 06 November 2022, pp.217, (Summary Text)
- VII. **Neuronal Differentiation and Neurite Orientation on Gold Nanoparticle Decorated, Micro/Nano-channeled PCL/PLGA Film Scaffolds**

AYDEĞER A., AYŞİT N., BAYDAŞ G., ÖZÇİÇEK İ.

4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 03 November 2022, (Summary Text)

VIII. **Effects of ginkgo biloba components and calcium channel blockers on cortical neuron excitability in wag/rij rats with absence epilepsy: In vitro calcium imaging study**

AKÇA M., YILDIRIM M., BAY S., BAYDAŞ G., AYŞİT N., ÖZTÜRK G.

Turkish Society of Physiological Sciences 45th National Physiology, Aydın, Turkey, 31 October - 03 November 2019, vol.227, pp.44, (Summary Text)

IX. **Effect of ginkgo biloba extract egb 761 on intracellular calcium level and excitability in wag/rij rat cortical neuron culture**

AKÇA M., YILDIRIM M., BAYDAŞ G., BAY S., AYŞİT N., ÖZTÜRK G.

Turkish Society of Physiological Sciences 45th National Physiology, Aydın, Turkey, 31 October - 03 November 2019, vol.227, pp.76, (Summary Text)