# Dr.Öğr.Üyesi ŞERİFE AYAZ GÜNER

## Kişisel Bilgiler

**İş Telefonu:** +90 352 224 8802 Dahili: 7358
**Web:** https://avesis.agu.edu.tr/serife.ayaz

## Eğitim Bilgileri

Doktora, University of Wisconsin-Madison, Cellular and Molecular Biology, Amerika Birleşik Devletleri 2007 - 2013
Lisans, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, Türkiye 1997 - 2012
Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji Anabilim Dalı, Türkiye 2002 - 2005

## Yaptığı Tezler

Doktora, Dissecting the role of estrogen receptor palmitoylation in breast cancer cells, University of Wisconsin-Madison, 2013

## Araştırma Alanları

Proteomiks, Kanser Moleküler Biyolojisi, Protein Mühendisliği

## Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Abdullah Gül Üniversitesi, Yaşam ve Doğa Bilimleri Fakültesi, Moleküler Biyoloji ve Genetik, 2018 - Devam Ediyor
Araştırma Görevlisi Dr., The University of Wisconsin Madison, Cell and Regenerative Biology, 2014 - 2015
Araştırma Görevlisi, The University of Wisconsin Madison, Cellular and Molecular Biology, 2007 - 2013

## Verdiği Dersler

Special Techniques and Advances in Molecular Biology, Lisans, 2019 - 2020
Molecular Biology, Lisans, 2018 - 2019

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Proteomic and Biological Analysis of the Effects of Metformin Senomorphics on the Mesenchymal Stromal Cells**
Acar M. B. , AYAZ GÜNER Ş., Gunaydin Z., KARAKÜKCÜ M., Peluso G., Di Bernardo G., ÖZCAN S., GALDERISI U.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, cilt.9, 2021 (SCI İndekslerine Giren Dergi)

II. **Why Do Muse Stem Cells Present an Enduring Stress Capacity? Hints from a Comparative Proteome Analysis**
Acar M. B. , Aprile D., AYAZ GÜNER Ş., GÜNER H., TEZ C., Di Bernardo G., Peluso G., ÖZCAN S., Galderisi U.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, cilt.22, sa.4, 2021 (SCI İndekslerine Giren Dergi)

III. **Obesity induced by high-fat diet is associated with critical changes in biological and molecular functions of mesenchymal stromal cells present in visceral adipose tissue.**
Acar M. B. , Ayaz-Güner Ş., Di Bernardo G., Güner H., Murat A., Peluso G., Özcan S., Galderisi U.
Aging, cilt.12, 2020 (SCI İndekslerine Giren Dergi)

IV. **Obesity induced by high-fat diet is associated with critical changes in biological and molecular functions of mesenchymal stromal cells present in visceral adipose tissue**
Acar M. B. , AYAZ GÜNER Ş., Di Bernardo G., GÜNER H., Murat A., Peluso G., ÖZCAN S., Galderisi U.
AGING-US, cilt.12, sa.24, ss.24894-24913, 2020 (SCI İndekslerine Giren Dergi)

V. **A comparative study on normal and obese mice indicates that the secretome of mesenchymal stromal cells is influenced by tissue environment and physiopathological conditions**
AYAZ GÜNER Ş., Alessio N., Acar M. B. , Aprile D., ÖZCAN S., Di Bernardo G., Peluso G., Galderisi U.
CELL COMMUNICATION AND SIGNALING, cilt.18, sa.1, 2020 (SCI İndekslerine Giren Dergi)

VI. **A photocleavable surfactant for top-down proteomics**
Brown K. A. , Chen B., Guardado-Alvarez T. M. , Lin Z., Hwang L., Ayaz-Guner Ş., Jin S., Ge Y.
NATURE METHODS, cilt.16, sa.5, ss.417-423, 2019 (SCI İndekslerine Giren Dergi)

VII. **Monophosphorylation of cardiac troponin-I at Ser-23/24 is sufficient to regulate cardiac myofibrillar Ca2+ sensitivity and calpain-induced proteolysis**
Martin-Garrido A., Biesiadecki B. J. , Salhi H. E. , Shaifta Y., dos Remedios C. G. , Ayaz-Guner Ş., Cai W., Ge Y., Avkiran M., Kentish J. C.
JOURNAL OF BIOLOGICAL CHEMISTRY, cilt.293, sa.22, ss.8588-8599, 2018 (SCI İndekslerine Giren Dergi)

VIII. **A Family of Photolabile Nitroveratryl-Based Surfactants That Self-Assemble into Photodegradable Supramolecular Structures**
Hwang L., Guardado-Alvarez T. M. , Ayaz-Gunner Ş., Ge Y., Jin S.
LANGMUIR, cilt.32, sa.16, ss.3963-3969, 2016 (SCI İndekslerine Giren Dergi)

IX. **MASH Suite Pro: A Comprehensive Software Tool for Top-Down Proteomics**
Cai W., Guner H., Gregorich Z. R. , Chen A. J. , Ayaz-Guner Ş., Peng Y., Valeja S. G. , Liu X., Ge Y.
MOLECULAR & CELLULAR PROTEOMICS, cilt.15, ss.703-714, 2016 (SCI İndekslerine Giren Dergi)

X. **Comprehensive Characterization of AMP-Activated Protein Kinase Catalytic Domain by Top-Down Mass Spectrometry**
Yu D., Peng Y., Ayaz-Guner Ş., Gregorich Z. R. , Ge Y.
JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, cilt.27, sa.2, ss.220-232, 2016 (SCI İndekslerine Giren Dergi)

XI. **Effective Top-Down LC/MS plus Method for Assessing Actin Isoforms as a Potential Cardiac Disease Marker**
Chen Y., Ayaz-Guner Ş., Peng Y., Lane N. M. , Locher M. R. , Kohmoto T., Larsson L., Moss R. L. , Ge Y.
ANALYTICAL CHEMISTRY, cilt.87, sa.16, ss.8399-8406, 2015 (SCI İndekslerine Giren Dergi)

XII. **Specific Enrichment of Phosphoproteins Using Functionalized Multivalent Nanoparticles**
Hwang L., Ayaz-Guner Ş., Gregorich Z. R. , Cai W., Valeja S. G. , Jin S., Ge Y.
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, cilt.137, sa.7, ss.2432-2435, 2015 (SCI İndekslerine Giren Dergi)

XIII. **Top-down mass spectrometry of cardiac myofilament proteins in health and disease**
Peng Y., Ayaz-Guner Ş., Yu D., Ge Y.
PROTEOMICS CLINICAL APPLICATIONS, cilt.8, ss.554-568, 2014 (SCI İndekslerine Giren Dergi)

XIV. **Systematic Analyses of the Cytotoxic Effects of Compound 11a, a Putative Synthetic Agonist of Photoreceptor-Specific Nuclear Receptor (PNR), in Cancer Cell Lines**
Zhao Z., Wang L., Wen Z., Ayaz-guner Ş., Wang Y., Ahlquist P., Xu W.
PLOS ONE, cilt.8, sa.9, 2013 (SCI İndekslerine Giren Dergi)

XV. **The impact of antibody selection on the detection of cardiac troponin I**
Guy M. J. , Chen Y., Clinton L., Zhang H., Zhang J., Dong X., Xu Q., Ayaz-Guner Ş., Ge Y.
CLINICA CHIMICA ACTA, cilt.420, ss.82-88, 2013 (SCI İndekslerine Giren Dergi)

XVI. **Phosphorylation, but Not Alternative Splicing or Proteolytic Degradation, Is Conserved in Human and Mouse Cardiac Troponin T**

Zhang J., Zhang H., Ayaz-Guner Ş., Chen Y., Dong X., Xu Q., Ge Y.
BIOCHEMISTRY, cilt.50, sa.27, ss.6081-6092, 2011 (SCI İndekslerine Giren Dergi)

XVII. **In Vivo Phosphorylation Site Mapping in Mouse Cardiac Troponin I by High Resolution Top-Down Electron Capture Dissociation Mass Spectrometry: Ser22/23 Are the Only Sites Basally Phosphorylated**
Ayaz-Guner Ş., Zhang J., Li L., Walker J. W. , Ge Y.
BIOCHEMISTRY, cilt.48, sa.34, ss.8161-8170, 2009 (SCI İndekslerine Giren Dergi)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Immunoproteomic Analysis of Acinetobacter baumannii Surface and Secreted Proteins**
AYAZ GÜNER Ş., ÖZCAN S.
International Congress ofthe Molecular Biology Association of Turkey, İstanbul, Türkiye, 27 - 29 Eylül 2019

II. **Monophosphorylation of cardiac troponin-I at Ser23/24 regulates cardiac myofibrillar Ca2+sensitivity and modulates calpain-induced proteolysis**
Kentish J. C. , Martin-Garrido A., Biesiadecki B. J. , Salhi H. E. , Shaifta Y., Dos Remedios C., Ayaz-Guner Ş., Cai W., Ge Y., Avkiran M.
5th Congress of the ESC-Council-on-Basic-Cardiovascular-Science on Frontiers in Cardio Vascular Biology, Vienna, Avusturya, 20 - 22 Nisan 2018, cilt.114

III. **Kalp Miyofilamentlerinde Top-Down Proteomik Uygulamaları**
AYAZ GÜNER Ş.
2. Ulusal Proteomik Kongresi, İstanbul, Türkiye, 24 - 25 Kasım 2017

IV. **Estrogen receptor (ERα) palmitoylation is essential for its membrane localization and the intact function of ERα in breast cancer cell.**
AYAZ GÜNER Ş., Elaine A., Xu W.
5th International Congress of the Molecular Biology Association of Turkey, 8 - 10 Eylül 2017

## Desteklenen Projeler

Ayaz Güner Ş., Özcan S., TÜBİTAK Projesi, B Hücreli Akut Lenfoblastik Lösemi (B-ALL) Yüzey Proteomunun İncelenerek Yeni Kimerik Antijen Reseptörü (CAR) Hedeflerinin Belirlenmesi, 2020 - 2022

## Bilimsel Dergilerdeki Faaliyetler

Turkish Journal Of Biology, Yardımcı Editör, 2019 - Devam Ediyor

## Atıflar

Toplam Atıf Sayısı (WOS):270
h-indeksi (WOS):7