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Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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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 - 2016

Araştırma Görevlisi, The University of Wisconsin Madison, Cellular and Molecular Biology, 2007 - 2013

Verdiği Dersler

Special Techniques and Advances in Molecular Biology, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020

Molecular Biology, Lisans, 2020 - 2021, 2019 - 2020, 2018 - 2019

Proteomikler ve Metabolomikler, Yüksek Lisans, 2020 - 2021

Health and Well Being, Lisans, 2021 - 2022

Hücre Sinyal Yolakları, Lisans, 2020 - 2021

- I. **An integrative-omics analysis of an industrial clavulanic acid-overproducing *Streptomyces clavuligerus***
KURT KIZILDOĞAN A., Celik G., unsaldi E., ÖZCAN S., AYAZ GÜNER Ş., ÖZCENGİZ G.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.106, sa.18, ss.6139-6156, 2022 (SCI-Expanded)
- II. **Proteomic fertility markers in ram sperm**
HİTİT M., Ozbek M., AYAZ GÜNER Ş., GÜNER H., Oztug M., BODU M., Kirbas M., BÜLBÜL B., BUCAK M. N., ATAMAN M. B., et al.
ANIMAL REPRODUCTION SCIENCE, cilt.235, 2021 (SCI-Expanded)
- III. **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-Expanded)
- IV. **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-Expanded)
- V. **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-Expanded)
- VI. **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-Expanded)
- VII. **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-Expanded)
- VIII. **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-Expanded)
- IX. **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-Expanded)
- X. **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-Expanded)
- XI. **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-Expanded)
- XII. **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-Expanded)
- XIII. **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-Expanded)
- XIV. **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-Expanded)

XV. 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-Expanded)

XVI. 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-Expanded)

XVII. 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-Expanded)

XVIII. 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-Expanded)

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 of the 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 (ER α) palmitoylation is essential for its membrane localization and the intact function of ER α 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/Bölüm Editörü, 2019 - Devam Ediyor

Metrikler

Yayın: 22

Atıf (WoS): 297

Atıf (Scopus): 322

H-İndeks (WoS): 7

H-İndeks (Scopus): 9