

Assoc. Prof. ZEYNEP ASLIHAN DURER

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: G-5626-2019

Yoksis Researcher ID: 239789

Education

Doctorate, University of California, Los Angeles, Fiziki Bilimler Fakültesi, Kimya ve Biyokimya, United States Of America
2005 - 2010

Postgraduate, California State University, Long Beach, Doğa Bilimleri ve Matematik Fakültesi, Kimya ve Biyokimya, United States Of America 2002 - 2005

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1997 - 2002

Foreign Languages

English, C2 Mastery

Research Areas

Medicine, Biophysics, Biochemistry, Biotechnology, Molecular Biology and Genetics, Biochemistry, Biophysics, Biochemistry

Academic Positions

Associate Professor, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Basic Sciences, 2018 - Continues

Associate Professor, Acibadem Mehmet Ali Aydınlar University, Faculty Of Pharmacy, Basic Pharmaceutical Sciences, 2018 - Continues

Assistant Professor, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Basic Sciences, 2015 - 2018

Research Assistant, University of California, Los Angeles, Fiziki Bilimler Fakültesi, Kimya Ve Biyokimya Anabilim Dalı, 2011 - 2015

Research Assistant, University of California, Los Angeles, Fiziki Bilimler Fakültesi, Kimya Ve Biyokimya Anabilim Dalı, 2005 - 2010

Research Assistant, California State University, Long Beach, Doğa Bilimleri Ve Matematik Fakültesi, Kimya Ve Biyokimya Anabilim Dalı, 2002 - 2005

Academic and Administrative Experience

ASOS Koordinatörlüğü, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Basic Sciences, 2020 - Continues

Fakülte Yönetim Kurulu Üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Pharmacy, Basic Pharmaceutical Sciences, 2019 - Continues

Yıl Koordinatörü, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Basic Sciences, 2019 - Continues

Fakülte Kurulu Üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Pharmacy, Basic Pharmaceutical Sciences, 2019 - Continues

Head of Department, Acibadem Mehmet Ali Aydınlar University, Faculty Of Pharmacy, Basic Pharmaceutical Sciences, 2019 - 2022

Courses

Postgraduate

Proteinlerin Yapısı ve İşlevleri, Postgraduate, 2022 - 2023

Biyokimya, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Moleküler Biyofizikte Temel Yöntemler, Postgraduate, 2022 - 2023

Hücrel Biyofizik, Postgraduate, 2022 - 2023

Temel Biyofizik, Postgraduate, 2021 - 2022

Undergraduate

PHAR 312 Clinical Biochemistry, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

FZT 109 FİZİK, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

MED 211 Microorganisms and Infection, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

MED 113 Molecular and Cellular Medicine-II, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

MED 212 Nervous System and Related Diseases, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

MED 111 Molecular and Cellular Medicine-I, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

MED 213 Musculoskeletal System and Related Disorders, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

PHAR 213 Biochemistry, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

MBG 206 BİYOFİZİK, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

FZT 116 BİYOFİZİK, Undergraduate, 2016 - 2017

Associate Degree

BIF 111 BİYOFİZİK, Associate Degree, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2016 - 2017

FZK 111 FİZİK, Associate Degree, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2016 - 2017

FZK 111 FİZİK, Associate Degree, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Supervised Theses

Durer Z. A., Identification of vinculin, metavinculin and cardiomyopathy-associated mutant metavinculin interaction networks using affinity pull-down and mass spectrometry, Postgraduate, K.Biçiçi(Student), in Progress

Durer Z. A., INVESTIGATION OF THE FUNCTION OF VINCULIN AND ITS ISOFORM IN MUSCLE CELLS, Postgraduate, H.KASAP(Student), 2022

Durer Z. A., Orun O., Metavinkülin Kardiyomiyopati Mutantlarının Rekombinant Olarak Üretilmesi, Saflaştırılması Ve Biyofiziksel Karakterizasyonu, Postgraduate, H.İpek(Student), 2021

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Acibadem Mehmet Ali Aydınlar Üniversitesi, February, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Acibadem Mehmet Ali Aydınlar Üniversitesi, February, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Acibadem Mehmet Ali Aydınlar Üniversitesi, October, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Acibadem Mehmet Ali Aydınlar Üniversitesi, January, 2022

Post Graduate, Post Graduate, Acibadem Mehmet Ali Aydınlar Üniversitesi, January, 2022

Post Graduate, Post Graduate, Acibadem Mehmet Ali Aydınlar Üniversitesi, January, 2022

Journal articles indexed in SCI, SSCI, and AHCI

- I. **G protein-coupled receptor-mediated autophagy in health and disease**
ÖZ ARSLAN D., DURER Z. A., KAN B.
BRITISH JOURNAL OF PHARMACOLOGY, 2024 (SCI-Expanded)
- II. **Proteomic investigation of acute and chronic hypoxia/reoxygenation responsive proteins and pathways in H9C2 cardiomyoblasts**
Oztug M., Kilinc E., DURER Z. A., Baloglu E.
TURKISH JOURNAL OF BIOLOGY, vol.48, no.3, pp.192-202, 2024 (SCI-Expanded)
- III. **Identification of Protein Interacting Partners of Na⁺/K⁺-ATPase Pump alpha 1 Subunit by Proteomic and Bioinformatic Analysis in InVitro Hypoxic Cardiomyocytes**
BALOĞLU E., Gencay G., Gurler B., TİMUÇİN E., DURER Z. A., KILINÇ E.
ACTA PHYSIOLOGICA, pp.58-59, 2023 (SCI-Expanded)
- IV. **D-loop Dynamics and Near-Atomic-Resolution Cryo-EM Structure of Phalloidin-Bound F-Actin.**
Das S., Ge P., Oztug D., Grintsevich E., Zhou Z., Reisler E.
Structure (London, England : 1993), vol.28, no.5, pp.586, 2020 (SCI-Expanded)
- V. **Distance sensitive D-loop dynamics and near-atomic resolution of F-actin phalloidin structure by cryoEM**
Das S., Ge P., Durer Z. A., Grintsevich E. E., Zhou Z. H., Reisler E.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.37, pp.2-3, 2019 (SCI-Expanded)
- VI. **<i>Drosophila</i> and human FHOD family formin proteins nucleate actin filaments.**
Patel A., Oztug D., Van L., Bremer K., Quinlan M.
The Journal of biological chemistry, vol.293, pp.532-540, 2018 (SCI-Expanded)
- VII. **Clinical applications of MALDI imaging technologies in cancer and neurodegenerative diseases**
Ucal Y., Durer Z. A., Atak H., Kadioglu E., Sahin B., COŞKUN A., BAYKAL A. T., ÖZPINAR A.
BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS, vol.1865, no.7, pp.795-816, 2017 (SCI-Expanded)
- VIII. **Analysis of Changes in Parathyroid Hormone and 25 (OH) Vitamin D Levels with Respect to Age, Gender and Season: A Data Mining Study.**
Serdar M. A., Can B. B., Kilercik M., Durer Z. A., Aksungar F., SERTESER M., COŞKUN A., ÖZPINAR A., Unsal I.
Journal of medical biochemistry, vol.36, no.1, pp.73-83, 2017 (SCI-Expanded)
- IX. **Metavinculin Tunes the Flexibility and the Architecture of Vinculin-Induced Bundles of Actin Filaments.**
Oztug D., McGillivray R., Kang H., Elam W., Vizcarra C., Hanein D., De L., Reisler E., Quinlan M.
Journal of molecular biology, vol.427, pp.2782-98, 2015 (SCI-Expanded)
- X. **Cryo-EM reveals different coronin binding modes for ADP- and ADP-BeFx actin filaments.**
Ge P., Durer Z. A., Kudryashov D., Zhou Z., Reisler E.

Nature structural & molecular biology, vol.21, pp.1075-81, 2014 (SCI-Expanded)

- XI. **Structural states and dynamics of the D-loop in actin.**
Durer Z. A., Kudryashov D., Sawaya M., Altenbach C., Hubbell W., Reisler E.
Biophysical journal, vol.103, pp.930-9, 2012 (SCI-Expanded)
- XII. **Myosin binding surface on actin probed by hydroxyl radical footprinting and site-directed labels.**
Oztug D., Kamal J., Benchaar S., Chance M., Reisler E.
Journal of molecular biology, vol.414, pp.204-16, 2011 (SCI-Expanded)
- XIII. **F-actin structure destabilization and DNase I binding loop: fluctuations mutational cross-linking and electron microscopy analysis of loop states and effects on F-actin.**
Oztug D., Diraviyam K., Sept D., Kudryashov D., Reisler E.
Journal of molecular biology, vol.395, pp.544-57, 2010 (SCI-Expanded)
- XIV. **Loss of metal ions, disulfide reduction and mutations related to familial ALS promote formation of amyloid-like aggregates from superoxide dismutase.**
Oztug D., Cohlberg J., Dinh P., Padua S., Ehrenclo K., Downes S., Tan J., Nakano Y., Bowman C., Hoskins J., et al.
PloS one, vol.4, 2009 (SCI-Expanded)
- XV. **Connecting actin monomers by iso-peptide bond is a toxicity mechanism of the Vibrio cholerae MARTX toxin.**
Kudryashov D., Durer Z. A., Ytterberg A., Sawaya M., Pashkov I., Prochazkova K., Yeates T., Loo R., Loo J., Satchell K., et al.
Proceedings of the National Academy of Sciences of the United States of America, vol.105, pp.18537-42, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Cloning, Expression, and Characterization of Serine Protease AprX from Geobacillus thermoleovorans ARTRW1**
Oztug M., Durer Z. A., Yetke H. I., Asicioglu M., Akgoz M., Gül Karagüler N.
Industrial Biotechnology, vol.18, no.3, pp.176-187, 2022 (Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Signaling Pathways Activated by the Orphan G Protein-Coupled Receptor GPR37**
Erol G., Öz Arslan D., Durer Z. A., Kan B.
COST-IMMUPARKNET 3 rd Annual Conference , Lisbon, Portugal, 5 - 07 April 2025, pp.55, (Summary Text)
- II. **Signaling Pathways Activated by the Orphan G Protein-Coupled Receptor GPR37 2024 Molbiyokon'24 Izmir /Turkey**
Erol G., Öz Arslan D., Durer Z. A., Kan B.
9th International Congress of the Molecular Biology Association of Turkey, İzmir, Turkey, 12 - 14 September 2024, pp.193-194, (Summary Text)
- III. **Understanding the structural dynamics of metavinculin's tail domain: insights from MDsimulations**
Durer Z. A., Timuçin E.
48th FEBS Congress, Milan, Italy, 29 June - 03 July 2024, vol.14, no.1014, pp.98-99, (Summary Text)
- IV. **A Structural Model of the G Protein-Coupled Receptor 37 and A2A Adenosine Receptor Heteromer**
Durer Z. A., Öz Arslan D., Kan B., Timuçin E.
2nd Immuparknet Conference , Sevilla, Spain, 15 - 17 June 2023, (Unpublished)
- V. **A Structural Model of the Heteromer between G Protein-Coupled Receptor 37 and A2A Adenosine Receptor**
Durer Z. A., Kan B., Öz Arslan D., Timuçin E.
5th International 34th National Biophysics Congress September 6-9, 2023, İzmir, Turkey, 6 - 09 September 2023,

(Unpublished)

- VI. **Characterization of actin-binding tail structure and dynamics in cardiomyopathy associated metavinculin mutants**
Durer Z. A., Gräwert T., Yetke H. İ., Bulut A. S., Timuçin E., Sayers Z., Kan B.
1st ML4NGP meeting on Machine Learning and Non-globular proteins, Bratislava, Slovakia, 5 - 07 July 2023, (Unpublished)
- VII. **Characterization of actin-binding tail structure and dynamics in metavinculin mutants associated with cardiomyopathy**
DURER Z. A., Grawert T., Yetke H. İ., Bulut A. S., TİMUÇİN E., Sayers Z., KAN B.
14th European Biophysics Congress (EBSA), Stockholm, Sweden, 31 July - 04 August 2023, (Summary Text)
- VIII. **A Structural Model of the G Protein-Coupled Receptor 37 and A2A Adenosine Receptor Heteromer**
Durer Z. A., Kan B., Öz Arslan D., Timuçin E.
ERNEST 8th and Final Meeting GPCR Structure and Function: The Present and perspectives for the future, Heraklion, Greece, 3 - 07 May 2023, pp.78, (Summary Text)
- IX. **GPR37 structure and function in autophagy**
Kan B., Durer Z. A., Öz Arslan D., Timuçin E.
ERNEST 8th and Final Meeting GPCR Structure and Function: The present and perspectives for the future, Heraklion, Greece, 3 - 07 May 2023, pp.24, (Summary Text)
- X. **Identification of Protein Interacting Partners of Na⁺/K⁺-ATPase Pump alpha 1 Subunit by Proteomic and Bioinformatic Analysis in In Vitro Hypoxic Cardiomyocytes**
BALOĞLU E., Gençay G., Gürler B., TİMUÇİN E., DURER Z. A., Kılınç E.
47.Ulusal Fizyoloji Kongresi, United States Of America, 01 November 2022, vol.237, pp.58-59, (Summary Text)
- XI. **An Investigation into the effect of the Different Vinculin Isoforms in the Morphology of H9C2 Cells**
Kasap Can H., Öz Arslan D., Kan B., Durer Z. A.
4. Uluslararası-33. Ulusal Biyofizik Kongresi, Adıyaman, Turkey, 31 August - 03 September 2022, (Unpublished)
- XII. **The relationship between overexpression of the orphan receptor GPR37 and autophagy in SH-SY5Y and Hep3B cells.**
Açıkgöz D., Öz Arslan D., Durer Z. A., Kan B.
Fifth ERNEST Meeting COST Action CA18133. Bridging Perspectives and Networking in Signal Transduction Research, Bari, Italy, 4 - 08 October 2021, pp.56, (Summary Text)
- XIII. **Proteomic investigation of acute and chronic hypoxia reoxygenation responsive hemostatic proteins and pathways in H9C2 cardiomyocytes**
Kılınç E., DURER Z. A., ÖZTUĞ KILINÇ M., BALOĞLU E.
4.Uluslararası 33.Ulusal Biyofizik Kongresi, Adıyaman, Turkey, 31 August 2022, (Summary Text)
- XIV. **Parkinson ile ilişkili Yetim G Protein Kenetli Reseptör GPR37'nin Otofaji ile Bağlantısının SH-SY5Y ve Hep3B Hücrelerinde İncelenmesi**
Öz Arslan D., Demir T., Açıkgöz D., Durer Z. A., Kan B.
32. Ulusal Biyofizik Kongresi, İstanbul, Turkey, 17 - 19 November 2021, pp.66, (Summary Text)
- XV. **Kardiyomiyopati ile ilişkili Vinkülin İzoformlarının Aktin'e Bağlanan Kuyruk Kısımlarının Yapısal ve Biyofiziksel Analizi**
Durer Z. A., Gräwert T., Yetke H. İ., Sayers Z., Kan B.
32. Ulusal Biyofizik Kongresi, İstanbul, Turkey, 17 - 19 November 2021, pp.62, (Summary Text)
- XVI. **An Interactome of ATG3 in a hepatoma celi line**
Öz Arslan D., Açıkgöz D., Kan B., Oztug M., Bozkurt S., Timuçin E., Durer Z. A.
Autophagy UK Meeting , London, England, 26 - 27 May 2021, pp.29, (Summary Text)
- XVII. **Investigation of new binding partners for ATG3 protein in a hepatoma cell line**
Öz Arslan D., Acikgoz D., Kan B., Oztug M., Timuçin E., Durer Z. A.
THIRD ERNEST MEETING - Online Signal transduction: From the genomic to the systems level, 12 - 14 October 2020, pp.17, (Summary Text)
- XVIII. **Evaluation of different transfection agents for expression of fluorescently labeled autophagy and mitophagy genes in hepatoma cells**

Kan B., Öz Arslan D., Durer Z. A.

31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.41, (Summary Text)

XIX. Unraveling New Binding Partners of ATG3 Protein in HEP3B Cells

Öz Arslan D., Açıkgoz D., Kan B., Öztuğ M., Durer Z. A.

31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.29, (Summary Text)

XX. Biophysical characterization of cardiomyopathy-related vinculin isoforms and their interactions with actin filaments

Yetke H. İ., Kan B., Durer Z. A.

31. Ulusal Biyofizik Kongresi, Adana, Turkey, 9 - 12 October 2019, pp.15-16, (Summary Text)

XXI. Unraveling New Binding Partners of Atg3 in Autophagy and Mitophagy

Öz Arslan D., Acikgoz D., Kan B., Durer Z. A.

EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS, Madrid, Spain, 20 - 24 July 2019, vol.48, pp.147, (Summary Text)

XXII. Unraveling New Binding Partners of Atg3 in Autophagy and Mitophagy

Oz-Arslan D., Acikgoz D., Kan B., Durer Z. A.

Joint 12th EBSA European Biophysics Congress / 10th IUPAP International Conference on Biological Physics (ICBP), Madrid, Spain, 20 - 24 July 2019, vol.48, (Summary Text)

XXIII. Biochemical and structural characterization of the propeptide of pregnancy-associated plasma protein A and its cellular effects

DURER Z. A., Bozkurt S., ÖZ ARSLAN D., TİMUÇİN E., Vizcarra C. L., COSKUN A.

Joint 12th EBSA European Biophysics Congress / 10th IUPAP International Conference on Biological Physics (ICBP), Madrid, Spain, 20 - 24 July 2019, (Summary Text)

XXIV. Unraveling New Binding Partners of Atg3 in Autophagy and Mitophagy

Öz Arslan D., Açıkgoz D., Kan B., Durer Z. A.

Joint 12th EBSA European Biophysics Congress / 10th IUPAP International Conference on Biological Physics (ICBP), Madrid, Spain, 20 - 24 July 2019, vol.48, pp.147, (Summary Text)

XXV. The Drosophila Formin FHOD Nucleates Actin Filaments

Patel A. A., Oztug Durer Z. A., Van Loon A. P., Bremer K. V., Quinlan M. E.

62nd Annual Meeting of the Biophysical-Society, California, United States Of America, 17 - 21 February 2018, vol.114, pp.144-145, (Summary Text)

XXVI. The *Drosophila* Formin FHOD Nucleates Actin Filaments

Patel A. A., DURER Z. A., van Loon A. P., Bremer K. V., Quinlan M. E.

62nd Annual Meeting of the Biophysical-Society, San-Francisco, Costa Rica, 17 - 21 February 2018, (Summary Text)

XXVII. Nörodejeneratif bir Hastalık Modelinde CDP-Kolin'in Otofaji ve Mitokondriyal Dinamikler Üzerindeki Rolü

Bilge B., Gezmiş H., Bozkurt S., Durer Z. A., Yücel D., Kan B., Ulus İ. H., Öz Arslan D.

28-29. Ulusal Biyofizik Kongresi, İstanbul, Turkey, 6 - 09 September 2017, (Summary Text)

XXVIII. Vinkülin'e Bağlı Aktin Demetlerinin Esnekliğinin ve Moleküler Organizasyonunun Metavinkülin ile Düzenlenmesi

Durer Z. A., McGillivray R., Kang H., Elam A., Vizcarra C., Hanein D., De La Cruz E., Reisler E., Quinlan M. E.

28-29. Ulusal Biyofizik Kongresi, İstanbul, Turkey, 6 - 09 September 2017, (Summary Text)

XXIX. Drosophila Formin Homology Domain-Containing Protein (FHOD) nucleates and bundles actin filaments but does not affect elongation.

Patel A. A., Durer Z. A., Van Loon A. P., Quinlan M. E.

Annual Meeting of the American-Society-for-Cell-Biology (ASCB), San-Francisco, Costa Rica, 3 - 07 December 2016, vol.27, (Summary Text)

XXX. Metavinculin alters the mechanical properties of F-actin and attenuates the bundling activity of vinculin.

Durer Z. A., Kang H., Elam W. A., McGillivray R. M., Vizcarra C. L., Hanein D., De La Cruz E., Reisler E., Quinlan M. E.

ASCB/IFCB Meeting, Pennsylvania, United States Of America, 6 - 10 December 2014, vol.25, (Summary Text)

- XXXI. **Metavinculin Induced Changes at the Actin Interprotomer Contacts and the Mechanism of Resulting Severing**
Durer Z. A., Vizcarra C., McGillivray R. A., Hanein D., Reisler E., Quinlan M. E.
58th Annual Meeting of the Biophysical-Society, San-Francisco, Costa Rica, 15 - 19 February 2014, vol.106, (Summary Text)
- XXXII. **Coronin effects on actin filaments**
Mikati M., Oztug Durer Z. A., Reisler E.
52nd Annual Meeting of the American Society for Cell Biology, California, United States Of America, 15 - 19 December 2012, vol.23, pp.229, (Summary Text)
- XXXIII. **Dynamic modes of F-actin and its D-loop and their modulation by cofilin**
Durer Z. A., Mcsunas M., Altenbach C., Kudryashov D., Hubbell W., Reisler E.
Annual Meeting of the American-Society-for-Cell-Biology (ASCB), Colorado, United States Of America, 3 - 07 December 2011, vol.22, (Summary Text)
- XXXIV. **Structural states and dynamics of the D loop in actin**
Oztug Durer Z. A., Kudryashov D. S., Sawaya M. R., Altenbach C., Hubbell W. L., Reisler E.
50th Annual Meeting of the American Society for Cell Biology, Pennsylvania, United States Of America, 11 - 15 December 2010, vol.21, pp.1047, (Summary Text)
- XXXV. **Structural plasticity of actin filaments**
OZTUG DURER Z. A.
UCLA Molecular Biology Institute's Annual Lake Arrowhead Retreat, Los-Angeles, Chile, 29 - 31 October 2010
- XXXVI. **Finding the needles in the haystack identifying interacting regions through cross linking**
YTTERBERG J. A., GRINTSEVICH E. E., KUDRYASHOV D. S., OZTUG DURER Z. A., REISLER E., JENSEN O. N., LOO J. A.
57th Annual Meeting of the American Society for Mass Spectrometry, Philadelphia, United States Of America, 31 May - 04 June 2009, vol.20, pp.501
- XXXVII. **Studies of the Dnase I loop plasticity in actin by disulfide cross linking**
OZTUG DURER Z. A., KUDRYASHOV D. S., REISLER E.
52nd Annual Meeting of the Biophysical Society, Long Beach, United States Of America, 2 - 06 February 2008, vol.94, pp.2317
- XXXVIII. **Covalent cross linking of actin with ACD domain of vibrio cholera MARTX toxin**
KUDRYASHOV D. S., OZTUG DURER Z. A., YTTERBERG J. A., SAWAYA M. R., PASHKOV I., YEATES T. O., OGORZALEK LOO R., LOO J. A., FULLNER SATCHELL K. J., REISLER E.
52nd Annual Meeting of the Biophysical Society, Long Beach, United States Of America, 2 - 06 February 2008, vol.94, pp.143
- XXXIX. **Actin cross linking with cholera RTX toxin**
KUDRYASHOV D. S., DURER Z. A., CORDERO C. L., BENCHAAR S. A., REISLER E., FULLNER SATCHELL K. J.
46th Annual Meeting of the American Society for Cell Biology, San Diego, United States Of America, 8 - 13 December 2006, vol.22, pp.1560
- XL. **Removal of metals and reduction of the disulfide bond promote amyloid formation from Cu Zn Superoxide Dismutase**
OZTUG Z. A., PADUA S., MASON A. Z., DOUCETTE P. A., SHAW B. F., VALENTINE J. S., RODRIGUEZ J. A., COHLBERG J. A.
49th Annual Meeting of the Biophysical Society, 12 - 16 February 2005, pp.1939
- XLI. **Formation of Amyloid from Superoxide Dismutase**
OZTUG Z. A., PADUA S., DOWNES S., COHLBERG J. A., RODRIGUEZ J., DOUCETTE P., VALENTINE J. S.
48th Annual Meeting of the Biophysical Society, Baltimore, United States Of America, 14 - 18 February 2004, pp.2617

Other Publications

- I. **Signaling Pathways Activated by the Orphan G Protein-Coupled Receptor GPR37**

Funded Projects

Durer Z. A., Öz Arslan D., Timuçin E., Öztuğ Kılınç M., Biçici K., Project Supported by Higher Education Institutions, Vinkülin izoformlarının etkileşim ağlarının ve otofajinin bu ağlar üzerindeki etkisinin araştırılması, 2024 - 2026

Öz Arslan D., Keskinöz E. N., Kan B., Durer Z. A., TUBITAK Project, Mikroglia ve Dendritik Hücrelerde Prosaposin Peptidi Olan Prosaptidin, Fenotip, Enflamasyon ve Biyoenerjetik Üzerindeki Etkilerinin İncelenmesi, 2024 - 2026

Kılınç E., Durer Z. A., Sağdılek E., TUBITAK Project, SARS CoV2 Spike Protein ve Alt Birimlerinin (S1, S2) Varlığında Hemostaz, Antikoagülan ve Antitrombotik İlaç Etkinliklerinin in-vitro Olarak Araştırılması, 2022 - 2024

Baloğlu E., Kılınç E., Durer Z. A., Timuçin E., TUBITAK Project, İskemik kalp hastalığı modelinde Na⁺/K⁺-ATPaz pompası ile etkileşen proteinlerin saptanması, 2020 - 2023

Kan B., Öz Arslan D., Durer Z. A., Project Supported by Higher Education Institutions, Parkinson ile ilişkili yetim G-protein kenetli reseptör GPR37'nin otofaji ile bağlantısının nöronal hücre hattında incelenmesi, 2020 - 2022

Durer Z. A., Öz Arslan D., Sayers Z., Kan B., TUBITAK Project, Vinkülin İzoformlarının Kas Hücrelerindeki İşlevsel Farklılıklarının Belirlenmesi, 2018 - 2022

Durer Z. A., Project Supported by Other Official Institutions, TÜBİTAK 2247-C Stajyer Araştırmacı Burs Programı (STAR)- Bursiyer İrem Kayabaşı, 2021 - 2021

Durer Z. A., Bulut A. Ş., TUBITAK Project, Metavinkülin ve Kardiyomiyopati Mutantlarının Sınırlı Proteoliz ve Kütle Spektrometresi Yöntemleriyle Yapısal ve Konformasyonel Tayini, 2020 - 2021

Durer Z. A., Öz Arslan D., Kan B., TUBITAK Project, Atg3 Proteininin Özgün Etkileşim Partnerlerinin Araştırılması, 2018 - 2021

Kan B., Öz Arslan D., Durer Z. A., Project Supported by Higher Education Institutions, Floresan Etiketli Proteinlerin Hücre İçi Görüntülenmesi, 2018 - 2019

Durer Z. A., Kan B., Project Supported by Higher Education Institutions, REKOMBİNANT PROTEİN ÜRETİMİ İÇİN ALT YAPI OLUŞTURULMASI, 2017 - 2018

DURER Z. A., TUBITAK Project, Metavinculin'in kalp kas hücrelerindeki protein bağlanma partnerlerinin saptanması ve splice-izoformu olan Vinculin ile karşılaştırılması, 2016 - 2018

Memberships and Roles in Scientific Organizations

Ulusal Biyofizik Derneği, Member, 2017 - Continues, Turkey

Peer Reviews in Scientific Publications

TURKISH JOURNAL OF BIOCHEMISTRY, National Scientific Refreed Journal, November 2024

EXPERIMED, National Scientific Refreed Journal, December 2022

TURKISH JOURNAL OF BIOLOGY, National Scientific Refreed Journal, May 2022

Acıbadem Üniversitesi Sağlık Bilimleri Dergisi, National Scientific Refreed Journal, March 2022

Scientific Project Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, June 2024

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, June 2024

TUBITAK Project, 3501 - National Young Researcher Career Development Program, February 2024

TUBITAK Project, 2214/A INTERNATIONAL PHD RESEARCH SCHOLARSHIP PROGRAM, January 2024

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, December 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, December 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, December 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, August 2023

Scientific Research / Working Group Memberships

Ca21115 - Iron-Sulphur (Fes) Clusters: From Chemistry To Immunology (Fesimmchemnet), EU COST ACTION, Belgium, <https://www.cost.eu/actions/CA21115>, 2023 - Continues

Ca21160 - Non-Globular Proteins In The Era Of Machine Learning (Ml4ngp), EU COST ACTION, Belgium, <https://www.cost.eu/actions/CA21160/>, 2022 - Continues

Ca18133-Ernest-European Research Network On Signal Transduction, EU COST ACTION, Belgium, <https://ernest-gpcr.eu/>, 2020 - 2023

Metrics

Publication: 60

Citation (WoS): 437

Citation (Scopus): 480

H-Index (WoS): 11

H-Index (Scopus): 11

Congress and Symposium Activities

The 48th FEBS Congress, Attendee, Milan, Italy, 2024

5.Uluslararası 34.Ulusal Biyofizik Kongresi, Session Moderator, İzmir, Turkey, 2023

14. EBSA (Avrupa Biyofizik Kongresi) 2023, Attendee, Stockholm, Sweden, 2023

COST Action CA21160 - 1st ML4NGP meeting on Machine Learning and Non-globular proteins, Working Group, Bratislava, Slovakia, 2023

4.Uluslararası 33.Ulusal Biyofizik Kongresi, Attendee, Adıyaman, Turkey, 2022

32. Ulusal Biyofizik Kongresi , Attendee, Adana, Turkey, 2021

Scholarships

TÜBİTAK 2224-A YURT DIŞI BİLİMSEL ETKİNLİKLERİNE KATILIM DESTEKLEME PROGRAMI, TUBITAK, 2023 - 2023

Awards

Kılınç E., Durer Z. A., Öztuğ M., Baloğlu E., 2nd best oral presentation award/Proteomic investigation of acute and chronic hypoxia reoxygenation responsive hemostatic proteins and pathways in H9C2 cardiomyocytes, 4.Uluslararası 33.Ulusal Biyofizik Kongresi, September 2022

Durer Z. A., Kan B., Sayers Z., Yetke H. I., Gräwert T., Sözlü sunum 2.lık ödülü, Kardiyomiyopati ile ilişkili Vinkülin İzofomlarının Aktin'e Bağlanan Kuyruk Kısımlarının Yapısal ve Biyofiziksel Analizi, Türk Biyofizik Derneği, November 2021

Öz Arslan D., Demir T., Açıkgöz D., Durer Z. A., Kan B., Poster Birincilik Ödülü-Parkinson ile ilişkili Yetim G Protein Kenetli Reseptör GPR37'nin Otofaji ile Bağlantısının SH-SY5Y ve Hep3B Hücrelerinde İncelenmesi , Türk Biyofizik Derneği, November 2021

Durer Z. A., For Women in Science, Unesco Türkiye- L'oreal, May 2017

Durer Z. A., NIH-Postdoctoral Individual National Research Service Award (F32), National Institute Of Health (Nih), Nhlbi, June 2013

Durer Z. A., Audree Fowler Fellowship in Protein Science, Ucla Molecular Biology Institute, November 2010

Durer Z. A., Robert A. Smith Graduate Student Award, Ucla Department Of Chemistry And Biochemistry, November 2010

Durer Z. A., Departmental Honors Award, Csulb Department Of Chemistry And Biochemistry, May 2005

Durer Z. A., Graduate Dean's List Award, California State University, Long Beach (Csulb), May 2005

Durer Z. A., Robert B. Henderson Memorial Scholarship, Csulb Department Of Chemistry And Biochemistry, May 2005

Durer Z. A., Honor Degree, Boğaziçi Üniversitesi, May 2002