

Asst. Prof. SERAP PEKTAŞ

Personal Information

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International Researcher IDs

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Education Information

Doctorate, University of Massachusetts Amherst, College Of Natural Sciences, Chemistry/ Biological Chemistry, United States Of America 2008 - 2013

Undergraduate, Cumhuriyet Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Turkey 2002 - 2006

Dissertations

Doctorate, O₂ Activation and Allosteric Zn(II) Binding on HIF-prolyl Hydroxylase-2 (PHD2), University of Massachusetts Amherst, College Of Natural Sciences, Chemistry/ Biological Chemistry, 2013

Research Areas

Life Sciences, Biochemistry, Enzymology, Molecular Biochemistry, Proteomics, Structural Biology, Chemistry, Biochemistry, Enzyme Kinetics, Protein Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2018 - Continues

Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2014 - 2018

Research Assistant, University of Massachusetts Amherst, 2008 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Staphylococcus aureus Bacteriophage 52 Endolysin Exhibits Anti-Biofilm and Broad Antibacterial Activity Against Gram-Positive Bacteria**
Abdurahman M. A., DURUKAN İ., DİNÇER T., PEKTAŞ S., Karataş E., KILIÇ A. O.
Protein Journal, vol.42, no.5, pp.596-606, 2023 (SCI-Expanded)
- II. **Increased Turnover at Limiting O₂ Concentrations by the Thr(387) -> Ala Variant of HIF-Prolyl Hydroxylase PHD2**
Pektas S., Taabazuing C. Y., Knapp M. J.
BIOCHEMISTRY, vol.54, no.18, pp.2851-2857, 2015 (SCI-Expanded)
- III. **Substrate preference of the HIF-prolyl hydroxylase-2 (PHD2) and substrate-induced conformational change**

Pektas S., Knapp M. J.

JOURNAL OF INORGANIC BIOCHEMISTRY, vol.126, pp.55-60, 2013 (SCI-Expanded)

IV. Inverse Solvent Isotope Effects Demonstrate Slow Aquo Release from Hypoxia Inducible Factor-Prolyl Hydroxylase (PHD2)

Flagg S., Giri N., Pektas S., Maroney M., Knapp M.

BIOCHEMISTRY, vol.51, no.33, pp.6654-6666, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. Cloning, Recombinant Production and Functional Analysis of Staphylococcal Phage Endolysins

Pektaş S., Özgümüş O. B., Durukan İ., Uzun Ü., Karataş E., Kılıç A. O.

Farabi Tıp Dergisi, vol.2, no.2, pp.14-22, 2023 (Peer-Reviewed Journal)

Books & Book Chapters

I. Application of Mass Spectrometry in Proteomics

PEKTAŞ S.

in: Essential Techniques for Medical and Life Scientists: A Guide to Contemporary Methods and Current Applications with the Protocols, Yusuf Tutar, Editor, Bentham Science Publishers, Sharjah, pp.1-29, 2018

Refereed Congress / Symposium Publications in Proceedings

I. Peptides with the "xxFWxFWxxLxx" motif may interact with MDM2 more efficiently than peptides with the "xxFxxxWxxLxx" motif

PEKTAŞ S.

5th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 23 November 2022

II. Effect of TAD mutations on phosphorylation of p53 by DNA-PK

Ateş M., Sinim M., Uzun Ü., KILIÇ A. O., ÖZGÜMÜŞ O. B., PEKTAŞ S.

5th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 23 November 2022

III. Identification and Characterization of HIV-1-Reverse Transcriptase Inhibitors from Propolis Extracts

YILDIZ O., BELDÜZ A. O., GÜLER H. İ., KOLAYLI S., PEKTAŞ S.

47th APIMONDIA, International Apicultural Congress August 24 - 28, 2022, Istanbul, TÜRKİYE, İstanbul, Turkey, 24 August 2022, pp.81

IV. Designing BRCA1 serine phosphorylation site inspired peptides to inhibit MDM2-p53 interaction

PEKTAŞ S.

the 13th International Conference on Protein Stabilization, Bulgaria, 07 October 2021, pp.34

V. Spike Protein RBD Mutations and Their Interactions with Receptor ACE2

PEKTAŞ S.

III. INTERNATIONAL COVID-19 AND CURRENT ISSUES CONGRESS, Turkey, 19 June 2021

VI. Antibacterial properties of three newly identified recombinant Staphylococcus aureus phage endolysins

KILIÇ A. O., ABDURRAHMAN M., PEKTAŞ S., TOSUN İ.

Proceedings of 6th Applied Microbiology, Roma, Italy, 21 - 22 October 2019

VII. Transient transfection and expression of ATM

Pektaş S.

7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, pp.184

VIII. The effect of pH on p53 phosphorylation by ATM kinase

PEKTAŞ S.

International Conference on Protein Chemistry and Chemical Biology ICPCCB, 17 - 18 September 2019

IX. The Investigation of the Usability of Propolis Extracts in Aids Treatment

YILDIZ O., BELDÜZ A. O., GÜLER H. İ., PEKTAŞ S., KOLAYLI S.

6.ULUSLARARASI MUĞLA ARICILIK VE ÇAM BALI KONGRESİ, Muğla, Turkey, 15 - 19 October 2018, pp.205-206

X. Role of the Hydrogen Bonding Interactions in the O₂ Sensitivity of HIF Prolyl Hydroxylase PHD2

PEKTAŞ S., knapp m.

The 29th Annual Symposium of the Protein Society, Barcelona, Spain, 22 - 25 July 2015, vol.24, pp.1-313

XI. Hydrogen bonding from the second coordination sphere controls o₂ activation in HIF-Prolyl hydroxylase (PHD2)

PEKTAŞ S.

Challenges in chemical biology (ISACS11), 23 - 26 July 2013

XII. Allosteric metal binding to the HIF-Prolyl hydroxylase-2 (Phd2)

PEKTAŞ S.

The 27th annual symposium of the protein society, 20 - 23 July 2013

Supported Projects

PEKTAŞ S., TUBITAK Project, ATM Kinaz Enziminin Aktivite Tespiti için MALDI-MS'e Dayalı Yöntem Geliştirilmesi, 2019 - Continues

PEKTAŞ S., TUBITAK Project, Propolis Ekstraktlarından HIV-1-Revers Transkriptaz İnhibitörlerinin Tanımlanması ve Karakterizasyonu, 2017 - Continues

PEKTAŞ S., TUBITAK Project, ATM enziminde potansiyel ilaç hedefi allosterik bölgelerin moleküler düzeyde belirlenmesi, 2016 - Continues

PEKTAŞ S., Project Supported by Higher Education Institutions, ATM kinaz enziminin aktivitesi üzerine pH etkisinin incelenmesi, 2017 - 2020

Metrics

Publication: 18

Citation (WoS): 34

Citation (Scopus): 36

H-Index (WoS): 3

H-Index (Scopus): 3