Asst. Prof. SERAP PEKTAŞ

Personal Information

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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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

I. **Increased Turnover at Limiting O-2 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 (Journal Indexed in SCI)

II. **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 (Journal Indexed in SCI)

III. **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 (Journal Indexed in SCI)

Books & Book Chapters

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. **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

II. **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

III. **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

IV. **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

V. **Hydrogen bonding from the second coordination sphere controls o2 activation in HIF-Prolyl hydroxylase (PHD2)**
PEKTAŞ S.
Challanges in chemical biology (ISACS11), 23 - 26 July 2013

VI. **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

Citations

Total Citations (WOS):34
h-index (WOS):3