

Asst. Prof. Şeref GÜL

Personal Information

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Education Information

Doctorate, Koc University, Faculty Of Engineering, Kimya ve Biyoloji Mühendisliği, Turkey 2013 - 2019

Postgraduate, Michigan State University, FEN, KİMYA, United States Of America 2010 - 2013

Postgraduate, Bogazici University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 2008 - 2010

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 2003 - 2008

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Identification of small molecules regulating the cryptochrome activity in the mammalian circadian clock, Koc University, Faculty Of Engineering, Kimya ve Biyoloji Mühendisliği, 2019

Postgraduate, Uzama faktörü tunun GTPaz etkinliğindeki önemli aminoasitlerin rollerinin araştırılması, Bogazici University, Faculty Of Arts And Sciences, Department Of Chemistry, 2010

Research Areas

Molecular Biophysics, Molecular Biochemistry, Structural Biology, Biological Information, Biological Modelling, Biotechnology, Genetic Disorders, Genomics, Protein Engineering

Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty Of Science, Department Of Biology, 2021 - Continues

Research Assistant PhD, Koc University, Institute Of Science, Kimya ve Biyoloji Mühendisliği, 2019 - 2021

Research Assistant, Koc University, Faculty Of Engineering, Kimya ve Biyoloji Mühendisliği, 2013 - 2019

Research Assistant, Michigan State University, FEN, Kimya, 2010 - 2013

Research Assistant, Bogazici University, Faculty Of Arts And Sciences, Department Of Chemistry, 2009 - 2010

Courses

BİLİMSEL VERİLERİN SUNUMU, Postgraduate, 2020 - 2021

THE REMARKABLE SCIENTISTS IN BIOLOGY, Undergraduate, 2020 - 2021

GENERAL BIOLOGY, Undergraduate, 2020 - 2021

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

- I. **Birt-Hogg-Dube Syndrome: Diagnostic Journey of Three Cases from Skin to Gene**
ANNALS OF DERMATOLOGY, vol.34, no.1, pp.66-71, 2022 (Journal Indexed in SCI)
- II. **Proteome analysis of the circadian clock protein PERIOD2**
PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS, 2022 (Journal Indexed in SCI)
- III. **Structure-based design and classifications of small molecules regulating the circadian rhythm period**
Gul Ş., Rahim F., Isin S., Yilmaz F., Ozturk N., Turkey M., Kavakli I. H.
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (Journal Indexed in SCI)
- IV. **Identification of a Novel De Novo COMP Gene Variant as a Likely Cause of Pseudoachondroplasia**
APPLIED IMMUNOHISTOCHEMISTRY & MOLECULAR MORPHOLOGY, vol.29, no.7, pp.546-550, 2021 (Journal Indexed in SCI)
- V. **In silico drug repositioning against human NRP1 to block SARS-CoV-2 host entry**
Gul S.
TURKISH JOURNAL OF BIOLOGY, vol.45, no.4, pp.442-463, 2021 (Journal Indexed in SCI)
- VI. **Transcriptome analysis of the circadian clock gene BMAL1 deletion with opposite carcinogenic effects**
FUNCTIONAL & INTEGRATIVE GENOMICS, vol.21, no.1, pp.1-16, 2021 (Journal Indexed in SCI)
- VII. **The Arg-293 of Cryptochrome1 is responsible for the allosteric regulation of CLOCK-CRY1 binding in circadian rhythm**
Gul Ş., AYDIN C., Ozcan O., Gurkan B., Surme S., Baris I., Kavakli I. H.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.295, no.50, pp.17187-17199, 2020 (Journal Indexed in SCI)
- VIII. **Unique combination and in silico modeling of biallelic POLR3A variants as a cause of Wiedemann-Rautenstrauch syndrome**
TEMEL Ş. G. , Ergoren M. C. , Manara E., Paolacci S., Tuncel G., Gul Ş., Bertelli M.
EUROPEAN JOURNAL OF HUMAN GENETICS, vol.28, no.12, pp.1675-1680, 2020 (Journal Indexed in SCI)
- IX. **In silico identification of widely used and well-tolerated drugs as potential SARS-CoV-2 3C-like protease and viral RNA-dependent RNA polymerase inhibitors for direct use in clinical trials**
Gul Ş., Ozcan O., Asar S., OKYAR A., Baris I., Kavakli I. H.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2020 (Journal Indexed in SCI)
- X. **Human CRY1 variants associate with attention deficit/hyperactivity disorder**
JOURNAL OF CLINICAL INVESTIGATION, vol.130, no.7, pp.3885-3900, 2020 (Journal Indexed in SCI)
- XI. **A CLOCK-binding small molecule disrupts the interaction between CLOCK and BMAL1 and enhances circadian rhythm amplitude.**
Doruk Y., Yarparvar D., Akyel Y., Gul Ş., Taskin A. C. , Yilmaz F., Baris I., Ozturk N., Turkey M., Ozturk N., et al.
The Journal of biological chemistry, vol.295, no.11, pp.3518-3531, 2020 (Journal Indexed in SCI Expanded)
- XII. **Identification and Characterization of a New Class of (6-4) Photolyase from Vibrio cholerae**
BIOCHEMISTRY, vol.58, no.43, pp.4352-4360, 2019 (Journal Indexed in SCI)
- XIII. **Centriolar satellites are required for efficient ciliogenesis and ciliary content regulation**
Odabasi E., Gul Ş., Kavakli I. H. , Firat-Karalar E. N.
EMBO REPORTS, vol.20, no.6, 2019 (Journal Indexed in SCI)
- XIV. **DNA repair by photolyases**
DNA REPAIR, vol.115, pp.1-19, 2019 (Journal Indexed in SCI)
- XV. **The Photolyase/Cryptochrome Family of Proteins as DNA Repair Enzymes and Transcriptional Repressors**
Kavakli I. H. , Baris I., Tardu M., Gul Ş., Oner H., Cal S., Bulut S., Yarparvar D., Berkel C., Ustaoglu P., et al.
PHOTOCHEMISTRY AND PHOTOBIOLOGY, vol.93, no.1, pp.93-103, 2017 (Journal Indexed in SCI)
- XVI. **Glu-370 in the large subunit influences the substrate binding, allosteric, and heat stability properties**

of potato ADP-glucose pyrophosphorylase

PLANT SCIENCE, vol.252, pp.125-132, 2016 (Journal Indexed in SCI)

XVII. Conformational Sampling of Peptides in the Presence of Protein Crowders from AA/CG-Multiscale Simulations

Predeus A. V. , Gul Ş., Gopal S. M. , Feig M.

JOURNAL OF PHYSICAL CHEMISTRY B, vol.116, no.29, pp.8610-8620, 2012 (Journal Indexed in SCI)

XVIII. Selectivity in the aggregates of the chiral organolithium N-Boc-2-lithiopiperidine with a chiral ligand: a DFT study

Ince H. H. , Dedeoglu B., Gul Ş., Aviyente V., Coldham I.

MOLECULAR PHYSICS, vol.110, no.6, pp.353-359, 2012 (Journal Indexed in SCI)

XIX. Computational Study of Factors Controlling the Boat and Chair Transition States of Ireland-Claisen Rearrangements

Gul Ş., Schoenebeck F., Aviyente V., Houk K. N.

JOURNAL OF ORGANIC CHEMISTRY, vol.75, no.6, pp.2115-2118, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Identification of novel small molecules targeting core clock proteins to regulate circadian rhythm**
Current Opinion in Chemical Engineering, vol.35, 2022 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Kanserde DNA Tamiri Ve Tedavide DNA Tamir Yolakları**
Kavaklı İ. H. , Gül Ş., Tardu M., Barış İ.
in: Kanser Moleküler Biyolojisi, Yusuf Baran, Editor, Kısayol Yayıncılık, İstanbul, pp.173-184, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Dosing-time and cryptochrome dependent changes in oxaliplatin tolerability and pharmacokinetics**
Öztürk Seyhan N., Akyel Y. K. , Gül Ş., Çelik M., Taşkın A. C. , Sancar A., Kavaklı İ. H. , Okyar A.
26th National and 1st International Pharmacology Congress, 10th Clinical Pharmacology Symposium, 9th Clinical Toxicology Symposium, İstanbul, Turkey, 4 - 06 November 2021, pp.280-281
- II. **Allosteric regulation of CRYs in mammalian circadian clock**
Özcan O., Gül Ş., Kavaklı İ. H.
ESCAPE-31: European Symposium on Computer Aided Process Engineering 2021, 6 - 09 June 2021, pp.1
- III. **IDENTIFICATION OF SMALL ORGANIC MOLECULES THAT REDUCES HALF-LIFE OF CRYPTOCHROME-1 AND CRYPTOCHROME-2**
Sürme S., Gül Ş., Kavaklı İ. H.
85th Cold Spring Harbor Laboratory Symposium on Quantitative Biology, Biological Time Keeping, 1 - 05 June 2021, pp.1
- IV. **Differential regulation of mammalian CRYs by allosterism in circadian clock**
Özcan O., Gül Ş., Kavaklı İ. H.
85th Cold Spring Harbor Laboratory Symposium on Quantitative Biology, Biological Time Keeping, 1 - 05 June 2021, pp.11-1

Scientific Refereeing

EUROPEAN JOURNAL OF BIOLOGY, Other Indexed Journal, August 2021

cyprus journal of Medical Sciences, Other journals, June 2021

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, June 2021

TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, May 2021

Citations

Total Citations (WOS):209

h-index (WOS):8