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Personal Information

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Education Information

Doctorate, University Of Massachusetts Medical School, Graduate School Of Biomedical Sciences, Biochemistry And Molecular Pharmacology, United States Of America 2007 - 2012

Undergraduate Double Major, Boğaziçi Üniversitesi, Fen Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik / Kimya Çift Anadal Programı, Turkey 2002 - 2007

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Hepatitis C Virus Non-Structural Protein 3/4A - A Tale of Two Domains, University Of Massachusetts Medical School, Graduate School Of Biomedical Sciences, Biochemistry And Molecular Pharmacology, 2012

Research Areas

Life Sciences, Biophysics, Molecular Biophysics, Biochemistry, Molecular Biochemistry, Structural Biology, Bioinformatics, Biological Modelling, Microbiology, Virology, Molecular Biology and Genetics, Genetic Disorders, Genomics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, İstanbul Medeniyet Üniversitesi, Faculty of Engineering and Natural Sciences , Department of Molecular Biology and Genetics , 2018 - Continues

Professional Experience

Deputy Head of Department, İstanbul Medeniyet Üniversitesi, Faculty of Engineering and Natural Sciences , Moleküler Biyoloji Ve Genetik Bölümü, 2016 - Continues

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

- I. **The Photolyase/Cryptochrome Family of Proteins as DNA Repair Enzymes and Transcriptional Repressors.**
KAVAKLI I., BARIS I., TARDU M., GÜL Ş., ÖNER H., ÇAL S., BULUT S., YARPARVAR D., BERKEL Ç., USTAOĞLU P., et al.
Photochemistry and photobiology, vol.93, pp.93-103, 2017 (Journal Indexed in SCI Expanded)
- II. **Structural and Thermodynamic Effects of Macrocyclization in HCV NS3/4A Inhibitor MK-5172.**
SOUMANA D., Kurt Y., PRACHANRONARONG K., Aydin C., ALI A., SCHIFFER C.
ACS chemical biology, vol.11, pp.900-9, 2016 (Journal Indexed in SCI Expanded)
- III. **Simultaneously Targeting the NS3 Protease and Helicase Activities for More Effective Hepatitis C Virus Therapy.**
NDJOMOU J., CORBY M., SWEENEY N., HANSON A., Aydin C., ALI A., SCHIFFER C., LI K., FRANKOWSKI K., SCHOENEN F., et al.
ACS chemical biology, vol.10, pp.1887-96, 2015 (Journal Indexed in SCI Expanded)
- IV. **The effects of tranexamic acid and 6% hydroxyethyl starch (HES) solution (130/0.4) on postoperative bleeding in coronary artery bypass graft (CABG) surgery.**
YANARTAS M., BAYSAL A., AYDIN C., AY Y., KARA I., Aydin E., CEVIRME D., KÖKSAL C., SUNAR H.
International journal of clinical and experimental medicine, vol.8, pp.5959-71, 2015 (Journal Indexed in SCI Expanded)
- V. **The interdomain interface in bifunctional enzyme protein 3/4A (NS3/4A) regulates protease and helicase activities.**
Aydin C., MUKHERJEE S., HANSON A., FRICK D., SCHIFFER C.
Protein science : a publication of the Protein Society, vol.22, pp.1786-98, 2013 (Journal Indexed in SCI Expanded)
- VI. **Evaluating the role of macrocycles in the susceptibility of hepatitis C virus NS3/4A protease inhibitors to drug resistance.**
ALI A., Aydin C., GILDEMEISTER R., ROMANO K., CAO H., OZEN A., SOUMANA D., NEWTON A., PETROPOULOS C., HUANG W., et al.
ACS chemical biology, vol.8, pp.1469-78, 2013 (Journal Indexed in SCI Expanded)
- VII. **The molecular basis of drug resistance against hepatitis C virus NS3/4A protease inhibitors.**
ROMANO K., ALI A., Aydin C., SOUMANA D., OZEN A., DEVEAU L., SILVER C., CAO H., NEWTON A., PETROPOULOS C., et al.
PLoS pathogens, vol.8, 2012 (Journal Indexed in SCI Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **The role of macrocyclization in hepatitis C virus protease inhibitor MK-5172 drug resistance profile**
Soumana D., Ali A., Prachanronarong K. L. , Aydin C., Schiffer C. A.
International Workshop on Antiviral Drug Resistance - Meeting the Global Challenge, Berlin, Germany, 3 - 07 June 2014, vol.19
- II. **Structural and biochemical insights to asunaprevir's drug resistance profile**
SOUMANA D., Aydin C., ALI A., CAO H., NEWTON A., PETROPOULOS C. J. , HUANG W., SCHIFFER C. A.
International Workshop on HIV and Hepatitis Virus Drug Resistance and Curative Strategies, Toronto, Canada, 4 - 08 June 2013, vol.18
- III. **Full length HCV NS3/4A recognizes protease inhibitors better compared to isolated protease for wild-type and multidrug-resistant variants**
AYDIN C., ALI A., SCHIFFER C. A.
International Workshop on HIC and Hepatitis Virus Drug Resistance and Curative Strategies, Sitges, Spain, 05 June 2012

Supported Projects

TUBITAK Project, Ras Proteinlerinin Homodimer Ve Heterodimer Kompleksleri Ve Etkileşimlerinin Hesaplamalı Ve Deneysel Yöntemlerle İncelenmesi, 2014 - Continues

TUBITAK Project, NLRP7 Proteininin İmmun Tolerans ile İlişkisinin Belirlenmesi, 2012 - 2016

AYDIN C., Project Supported by Other Official Institutions, Yenilenebilir Enerji için İstanbul'da Biyoyakıt Platformunun Oluşturulması - Koç Üniversitesi Biyoyakıt Platformu (KUBİP), 2014 - 2015

Other Supported Projects, Drug Resistance in HCV NS3/4A - Inhibitor Binding Versus Substrate Recognition, 2010 - 2013

Other Supported Projects, Elucidating the Interplay of Protease Substrate Recognition and Drug Resistance, 2008 - 2013

Citations

Total Citations (WOS):211

h-index (WOS):6