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Personal Information

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Education Information

Doctorate, Sabanci University, Institute Of Science, Biyoloji Bilimleri Ve Biyomühendislik (Dr), Turkey 2007 - 2012

Academic and Administrative Experience

Fakülte Akademik Kurul Üyesi, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Basic Sciences, 2021 - Continues

Ethics Committee Member, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Basic Sciences, 2020 - Continues

Courses

Protein Structure and Function, Postgraduate, 2021 - 2022

Biyoenformatik, Undergraduate, 2015 - 2016

Introduction to Bioinformatics, Undergraduate, 2015 - 2016

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

- I. **Modeling and dynamical analysis of the full-length structure of factor XII with zinc.**
Kılınç E., Can Timucin A. C. , Selim Cinaroglu S., Timucin E.
Journal of molecular modeling, vol.28, no.5, pp.129, 2022 (Journal Indexed in SCI Expanded)
- II. **Toward Compilation of Balanced Protein Stability Data Sets: Flattening the Delta Delta G Curve through Systematic Enrichment**
Kebabci N., TİMUÇİN A. C. , TİMUÇİN E.
JOURNAL OF CHEMICAL INFORMATION AND MODELING, vol.62, no.5, pp.1345-1355, 2022 (Journal Indexed in SCI)
- III. **Molecular modelling of the FOXO4-TP53 interaction to design senolytic peptides for the elimination of senescent cancer cells.**
Le H. H. , Cinaroglu S. S. , Manalo E. C. , Ors A., Gomes M. M. , Duan Sahbaz B., Bonic K., Origel Marmolejo C. A. , Quentel A., Plaut J. S. , et al.
EBioMedicine, vol.73, pp.103646, 2021 (Journal Indexed in SCI Expanded)
- IV. **Bridging the Bridging Imidazolate in the Bimetallic Center of the Cu/Zn SOD1 and ALS**
TİMUÇİN A. C. , Cinaroglu S. S. , SEZERMAN O. U. , TİMUÇİN E.
FRONTIERS IN CHEMISTRY, vol.9, 2021 (Journal Indexed in SCI)
- V. **Brave New Surfactant World Revisited by Lipases: Activation and Unfolding in SDS**
Shehata M., Unlu A., TİMUÇİN E.
BIOPHYSICAL JOURNAL, vol.120, no.3, 2021 (Journal Indexed in SCI)
- VI. **Completing the Partially Resolved Complex Crystal Structure of Aurora Kinase A-/-N-MYC by**

Molecular Modeling

Altiner P., Cinaroglu S. S., TIMUÇİN E.

BIOPHYSICAL JOURNAL, vol.120, no.3, 2021 (Journal Indexed in SCI)

- VII. **Comprehensive evaluation of the MM-GBSA method on bromodomain-inhibitor sets.**
Çınaroğlu S., Timuçin E.
Briefings in bioinformatics, vol.21, pp.2112-2125, 2020 (Journal Indexed in SCI)
- VIII. **Lipase and Water in a Deep Eutectic Solvent: Molecular Dynamics and Experimental Studies of the Effects of Water-In-Deep Eutectic Solvents on Lipase Stability.**
Shehata M., Unlu A., Sezerman U., Timucin E.
The journal of physical chemistry. B, vol.124, pp.8801-8810, 2020 (Journal Indexed in SCI)
- IX. **Understanding thermal and organic solvent stability of thermoalkalophilic lipases: insights from computational predictions and experiments.**
Shehata M., Timucin E., Venturini A., Sezerman O. U.
Journal of molecular modeling, vol.26, pp.122, 2020 (Journal Indexed in SCI Expanded)
- X. **Comparative Assessment of Seven Docking Programs on a Nonredundant Metalloprotein Subset of the PDBbind Refined.**
Çınaroğlu S., Timuçin E.
Journal of chemical information and modeling, vol.59, pp.3846-3859, 2019 (Journal Indexed in SCI)
- XI. **Insights into an alternative benzofuran binding mode and novel scaffolds of polyketide synthase 13 inhibitors.**
Çınaroğlu S., Timuçin E.
Journal of molecular modeling, vol.25, pp.130, 2019 (Journal Indexed in SCI)
- XII. **In silico identification of inhibitors targeting N-Terminal domain of human Replication Protein A.**
Çınaroğlu S., Timuçin E.
Journal of molecular graphics & modelling, vol.86, pp.149-159, 2019 (Journal Indexed in SCI)
- XIII. **Thermostability of the PYL-PP2C Heterodimer Is Dependent on Magnesium: In Silico Insights into the Link between Heat Stress Response and Magnesium Deficiency in Plants.**
Timucin E., Sezerman O. U.
Journal of chemical information and modeling, vol.58, pp.661-672, 2018 (Journal Indexed in SCI)
- XIV. **Predicting the impact of mutations on the specific activity of Bacillus thermocatenuatus lipase using a combined approach of docking and molecular dynamics**
Yukselen O., Timucin E., Sezerman U.
JOURNAL OF MOLECULAR RECOGNITION, vol.29, no.10, pp.466-475, 2016 (Journal Indexed in SCI)
- XV. **RACK1 Is an Interaction Partner of ATG5 and a Novel Regulator of Autophagy**
Erbil S., ORAL Ö., Mitou G., Kig C., Durmaz-Timucin E., Guven-Maiorov E., Gulacti F., Gokce G., Dengjel J., Sezerman O. U., et al.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.291, no.32, pp.16753-16765, 2016 (Journal Indexed in SCI)
- XVI. **Probing the roles of two tryptophans surrounding the unique zinc coordination site in lipase family I.5**
Timucin E., Cousido-Siah A., Mitschler A., Podjarny A., Sezerman O. U.
PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS, vol.84, no.1, pp.129-142, 2016 (Journal Indexed in SCI)
- XVII. **Zinc Modulates Self-Assembly of Bacillus thermocatenuatus Lipase**
Timucin E., Sezerman O. U.
BIOCHEMISTRY, vol.54, no.25, pp.3901-3910, 2015 (Journal Indexed in SCI)
- XVIII. **Direct in vitro selection of titanium-binding epidermal growth factor**
Tada S., Timucin E., Kitajima T., Sezerman O. U., Ito Y.
BIOMATERIALS, vol.35, no.11, pp.3497-3503, 2014 (Journal Indexed in SCI)
- XIX. **The Conserved Lid Tryptophan, W211, Potentiates Thermostability and Thermoactivity in Bacterial Thermoalkalophilic Lipases**
Timucin E., Sezerman O. U.
PLOS ONE, vol.8, no.12, 2013 (Journal Indexed in SCI)

- XX. **Modifying the catalytic preference of tributyrin in *Bacillus thermocatenulatus* lipase through in-silico modeling of enzyme-substrate complex**
 Durmaz E, Kuyucak S, Sezerman U.
 PROTEIN ENGINEERING DESIGN & SELECTION, vol.26, no.5, pp.325-333, 2013 (Journal Indexed in SCI)
- XXI. **The drought response displayed by a DRE-binding protein from *Triticum dicoccoides*.**
 Lucas S, Durmaz E, Akpınar B, Budak H.
 Plant physiology and biochemistry : PPB, vol.49, pp.346-51, 2011 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Rationally designed FOXO4-p53 interfering peptide selectively kills chemo-therapy-induced senescent and dormant cancer cells in vivo**
 Timuçin E, Fischer J. M. , Sezerman U, Çınaroğlu S. S.
 Ending Age-Related Diseases: Investment Prospects and Advances in Research conference, New-York, United States Of America, 11 - 12 July 2019, pp.39
- II. **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., Timuçin 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, vol.48, pp.149
- III. **Comparative Assessment of Molecular Docking for the Ligands Closely Interacting with Metals in Metalloproteins**
 Timuçin E., Çınaroğlu S. S.
 Organalle Biogenesis and Function in Cell Physiology and in Disease Conference, İstanbul, Turkey, 27 - 29 May 2019
- IV. **Magnesium confers stability to the PYL10 PP2C complex at high temperatures Insights from molecular dynamics simulations**
 SEZERMAN O. U. , TİMUÇİN E., ÇETİN E.
 2nd International Symposium on Magnesium in Crop Production, Food Quality and Human Health, Sao-Paulo, Brazil, 4 - 06 November 2014
- V. **Zinc induces self assembly of thermoalkalophilic lipases A strategy for thermostability**
 TİMUÇİN E., SEZERMAN O. U.
 The 28th Annual Symposium of Protein Society, San Diego, CA, United States Of America, 27 - 30 July 2014
- VI. **Zinc Induces Self-Assembly Of Bacterial Thermoalkalophilic Lipases: A Strategy For Thermostability**
 Timucin E., Sezerman O. U.
 28th Annual Symposium of the Protein-Society, California, United States Of America, 27 - 30 July 2014, vol.23, pp.134
- VII. **Modifying the chain length selectivity of *Bacillus thermocatenulatus* lipase through computational models of the enzyme substrate complex**
 TİMUÇİN E., KUYUCAK S., SEZERMAN O. U.
 İstanbul İstatistiksel Fizik Günleri, 28 - 30 June 2012
- VIII. **Computational Models for Chain Length Selectivity of *Bacillus thermocatenulatus* lipase**
 TİMUÇİN E., KUYUCAK S., SEZERMAN O. U.
 The International Conference on Enzyme Science and Technology, Muğla, Turkey, 31 October - 04 November 2011
- IX. **Modification of Media pH Significantly Improves Recombinant Protein Stabilityin *Pichia pastoris***
 GÜL Ö., TİMUÇİN E., SEZERMAN O. U.
 The International Conference on Enzyme Science and Technology, Muğla, Turkey, 31 October - 04 November 2011
- X. **Treatment of water polluted with antibiotic resistant bacteria via chlorine and ozone disinfection**
 ÖNCÜ BİLGİN N., TİMUÇİN E., BALCIOĞLU I.
 Water Contamination Emergencies Conference, Mülheim, Germany, 11 - 13 October 2010

- XI. **High throughput protein expression in *Pichia pastoris* using a non repressing carbon source**
GÜL Ö., TİMUÇİN E., YENİLMEZ B., SEZERMAN O. U.
The Protein Istanbul (PROTIST), İstanbul, Turkey, 23 - 25 April 2010
- XII. **Isolation and cloning of dehydration responsive element binding protein DREB from *Triticum dicoccoides***
TİMUÇİN E., BUDAK H.
The 7th Plant Genomics European Meeting (PGEM7), Albena, Bulgaria, 24 - 27 September 2008
- XIII. **Expression and Cellular Localization of ZIP1 Transporter Under Zinc Deficiency in Wild Emmer Wheat International Durum Wheat Symposium**
TİMUÇİN E., ÇORUH C., DİNLER DOĞANAY G., GRUSAK M., PELEG Z., SARANGA Y., FAHİMA T., YAZICI M. A. , ÖZTÜRK L., ÇAKMAK İ., et al.
From Seed to Pasta: The Durum Wheat Chain, Bologna, Italy, 30 June - 03 July 2008

Citations

Total Citations (WOS):227

h-index (WOS):8

Awards

Timuçin E., Best poster award , Cnr , January 2010