

## **Personal Information**

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## **Education Information**

Post Doctorate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2014 - 2017

Doctorate, Koç Üniversitesi, Mühendislik Fakültesi, Kimya Ve Biyoloji Mühendisliği, Turkey 2008 - 2013

Post Graduate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2006 - 2008

Under Graduate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2001 - 2006

## **Foreign Languages**

English, C1 Advanced

## **Research Areas**

Computer Sciences, bioinformatics, Biocomputing, Life Sciences, Bioinformatics, Biological Information, Natural Sciences, Engineering and Technology

## **Academic Titles / Tasks**

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

Lecturer PhD, Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Moleküler Biyoloji, Genetik Ve Biyomühendislik, 2017 - 2017

## **Advising Theses**

Özbabacan S. E. , Haliloğlu T., STRUCTURAL DYNAMICS OF PROTEINS IN FUNCTIONAL CONTROL, Post Graduate, B.Özgüney(Student), Continues

Özbabacan S. E. , GEMİ KAYNAKLI ATIK VERİLERİNİN ANALİZİ VE PROJEKSİYONU İLE ATIK YÖNETİMİ VE BERTARAFI, Post Graduate, E.Nilay(Student), Continues

Turanlı B., Özbabacan S. E. , MELANOM TEDAV İSİ İÇİN İLAÇLARIN YENİDEN KONUMLANDIRILMASI VE YAPISAL KENETLENME ÇALIŞMALARI, Post Graduate, N.Betül(Student), Continues

## **Jury Memberships**

Post Graduate, Tez Savunma Jürisi, Koç Üniversitesi, November, 2017

Post Graduate, Tez Savunma Jürisi, Marmara Üniversitesi, June, 2017

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

- **Allosteric Dynamic Control of Binding**

Sumbul F., Acuner-Ozbabacan S. E. , Haliloglu T.

BIOPHYSICAL JOURNAL, vol.109, pp.1190-1201, 2015 (Journal Indexed in SCI)

- **Structural Pathways of Cytokines May Illuminate Their Roles in Regulation of Cancer Development and Immunotherapy**  
Güven-Maiorov E., Acuner-Ozbabacan S. E. , Keskin O., Gursoy A., Nussinov R.  
CANCERS, vol.6, pp.663-683, 2014 (Journal Indexed in SCI)
- **The structural network of Interleukin-10 and its implications in inflammation and cancer**  
Acuner-Ozbabacan E. S. , Engin B. H. , Güven-Maiorov E., Kuzu G., Muratcioglu S., Baspinar A., CHEN Z., VAN WAES C., Gursoy A., Keskin O., et al.  
BMC GENOMICS, vol.15, 2014 (Journal Indexed in SCI)
- **The Structural Pathway of Interleukin 1 (IL-1) Initiated Signaling Reveals Mechanisms of Oncogenic Mutations and SNPs in Inflammation and Cancer**  
Ozbabacan S. E. , Gursoy A., Nussinov R., Keskin O.  
PLOS COMPUTATIONAL BIOLOGY, vol.10, 2014 (Journal Indexed in SCI)
- **Enriching the human apoptosis pathway by predicting the structures of protein-protein complexes**  
Ozbabacan S. E. , Keskin O., Nussinov R., Gursoy A.  
JOURNAL OF STRUCTURAL BIOLOGY, vol.179, pp.338-346, 2012 (Journal Indexed in SCI)
- **Transient proteinprotein interactions**  
Ozbabacan S. E. , Engin H. B. , Gursoy A., Keskin O.  
PROTEIN ENGINEERING DESIGN & SELECTION, vol.24, pp.635-648, 2011 (Journal Indexed in SCI)
- **Crucial components in toll-like receptor signaling network as key regulators for immunological disorders**  
Özbabacan S. E. , Tekir S. D. , Ülgen K. Ö.  
International Journal of Physical Sciences, vol.6, pp.2016-2026, 2011 (Journal Indexed in SCI Expanded)
- **Conformational ensembles, signal transduction and residue hot spots: Application to drug discovery**  
Ozbabacan S. E. , Gursoy A., Keskin O., Nussinov R.  
CURRENT OPINION IN DRUG DISCOVERY & DEVELOPMENT, vol.13, pp.527-537, 2010 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Precision Medicine: Omics-tailored Clinics**  
Özbabacan S. E.  
International Journal of Innovative Research in Medical Science, vol.4, pp.172-174, 2019 (Refereed Journals of Other Institutions)
- **Elucidating Structural Details of Ras-Effector Interactions**  
Özbabacan S. E.  
International Journal of Advances in Engineering and Pure Sciences, vol.1, pp.90-99, 2019 (International Refereed University Journal)

## Refereed Congress / Symposium Publications in Proceedings

- **Towards in silico identification of rescue sites in Rac1 oncogenic mutations**  
Özbabacan S. E.  
THE 12TH INTERNATIONAL SYMPOSIUM ON HEALTH INFORMATICS AND BIOINFORMATICS (HIBIT), İzmir, Turkey, 17 - 18 October 2019
- **Drug repositioning and docking studies on melanoma**  
Özbabacan S. E.  
THE 12TH INTERNATIONAL SYMPOSIUM ON HEALTH INFORMATICS AND BIOINFORMATICS (HIBIT), İzmir, Turkey, 17 - 18 October 2019
- **Mutation induced allosteric regulation of Rac1-PAK1 binding affinity investigated via molecular simulations and AFM**  
Acuner-Ozbabacan S. E. , Sumbul F., Torun H., Haliloglu T.  
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September

2016, vol.283, pp.113

- **Allosteric Regulation of Rac1-PAK1 Binding Affinity by Mutant Residues through Molecular Simulations and AFM**

Acuner-Ozbabacan S. E. , Sumbul F., Torun H., Haliloglu T.

60th Annual Meeting of the Biophysical-Society, Los-Angeles, Chile, 27 February - 02 March 2016, vol.110

## Supported Projects

ACUNER S. E. , TURANLI B., Project Supported by Higher Education Institutions, Melanom tedavisine yönelik olarak ilaçların yeniden konumlandırılması ve yapısal kenetlenme çalışmaları, 2019 - 2020

## Scientific Refereeing

Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, November 2017

## Invited Congress and Symposium Activities

THE 12TH INTERNATIONAL SYMPOSIUM ON HEALTH INFORMATICS AND BIOINFORMATICS, Working Group, İzmir, Turkey, 2019

International Symposium on Chemistry Via Computation, Applications on Molecular Nanoscience, Attendee, İstanbul, Turkey, 2017

## Citations

Total Citations (WOS):252

h-index (WOS):7