

Assoc. Prof. PEMRA ÖZBEK SARICA

Personal Information

Office Phone: [+90 216 418 2357](tel:+902164182357) Extension: 3571

Email: pemra.ozbek@marmara.edu.tr

Web: <http://akademik.marmara.edu.tr/pemra.ozbek>

Address: Marmara Üniversitesi, Goztepe Kampusu,
Biyomühendislik Bölümü, MC-370, 34722, Kadıköy, İstanbul



Biography

Assoc. Prof. Pemra ÖZBEK SARICA was born in 1982, İstanbul. After graduating from Bogazici University, Chemical Engineering Department in 2004, she moved to United Kingdom to pursue her academic career. She completed her PhD in Mechanical Engineering in Imperial College London, 2008. She studied as a postdoc in Bogazici University, Chemical Engineering Department, Polymer Research Center (PRC) between years 2008-2011. In 2011, she started working as an Assist. Prof. in Marmara University, Bioengineering Department. Currently, she is the Principal Investigator of the Computational Biology and Bioinformatics Research Group.

Education Information

Doctorate, Imperial College of Science, Technology and Medicine, Faculty of Engineering, Mechanical Engineering Dept., United Kingdom 2004 - 2008

Under Graduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1999 - 2004

Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Engineering, Bioengineering, 2017 - Continues

Assistant Professor, Marmara University, Faculty of Engineering, Bioengineering, 2011 - 2017

Research Assistant, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2008 - 2011

Research Assistant, Imperial College Of Science, Technology And Medicine, Mühendislik Fakültesi, Makina Mühendisliği, 2004 - 2008

Professional Experience

Deputy Head of Department, Marmara University, Faculty of Engineering, Bioengineering, 2019 - Continues

Mevlana Exchange Program Coordinator, Marmara University, Faculty of Engineering, Bioengineering, 2013 - 2020

Erasmus Coordinator, Marmara University, Faculty of Engineering, Bioengineering, 2010 - 2020

Advising Theses

Özbek Sarıca P., Development of a Web-Based Tool for Network Analysis of Protein Structure, Post Graduate, R.Murat(Student), 2019

SARIYAR AKBULUT B., ÖZBEK SARICA P., Computational study on the inhibition multidrug resistance efflux pumps, Post Graduate, D.Şentürk(Student), 2019

Özbek Sarıca P., Computational Dynamical Characterization of Human Major Histocompatibility Complex Proteins, Doctorate, O.SERÇİNOĞLU(Student), 2018

Özbek Sarıca P., Computational Investigation of Peptide Binding Affinity and Complex Stability of Major Histocompatibility Complex (MHC), Post Graduate, A.Bunsuz(Student), 2018

Özbek Sarıca P., Computational Investigation of Protein Dynamics Based on Energy Dissipation, Post Graduate, E.Naz(Student), 2017

Özbek Sarıca P., Computational Study On The Effect of pH on the Binding Behaviour of HLA-B Alleles, Post Graduate, Z.Kutlu(Student), 2015

Özbek Sarıca P., Docking Studies in HLA Molecules, Post Graduate, G.ÖZCAN(Student), 2015

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

- I. **Identification of novel inhibitors of the ABC transporter BmrA**
Serçinoğlu O., Senturk D., Altinisik K., Avci F., Frlan R., Tomašič T., Ozbek P., Orelle C., Jault J., Sariyar A.
BIOORGANIC CHEMISTRY, vol.105, 2020 (Journal Indexed in SCI)
- II. **In Silico Tools and Approaches for the Prediction of Functional and Structural Effects of Single-Nucleotide Polymorphisms on Proteins: An Expert Review**
Yazar M., ÖZBEK SARICA P.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, 2020 (Journal Indexed in SCI)
- III. **Revisiting allostery in CREB-binding protein (CBP) using residue-based interaction energy**
Yazar M., Ozbek P.
JOURNAL OF COMPUTER-AIDED MOLECULAR DESIGN, vol.34, no.9, pp.965-974, 2020 (Journal Indexed in SCI)
- IV. **New Machine Learning Applications to Accelerate Personalized Medicine in Breast Cancer: Rise of the Support Vector Machines**
Ozer M. E., Sarica P., ARÇA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.24, no.5, pp.241-246, 2020 (Journal Indexed in SCI)
- V. **Sequence-structure-function relationships in class I MHC: A local frustration perspective**
Serçinoğlu O., Ozbek P.
PLOS ONE, vol.15, no.5, 2020 (Journal Indexed in SCI)
- VI. **Computational investigation of peptide binding stabilities of HLA-B*27 and HLA-B*44 alleles**
Bunsuz A., SERÇİNOĞLU O., Ozbek P.
Computational Biology and Chemistry, vol.84, 2020 (Journal Indexed in SCI)
- VII. **Next-Generation Sequencing Identifies BRCA1 and/or BRCA2 Mutations in Women at High Hereditary Risk for Breast Cancer with Shorter Telomere Length**
Peker E., Yenmiş G., Bingöl E., Yüksel Ş., Tokat F., Özbek P., Güllü A., Yakıcıer C., Akkiprik M.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.24, pp.5-15, 2020 (Journal Indexed in SCI)
- VIII. **ProSNEx: a web-based application for exploration and analysis of protein structures using network formalism**
Aydıncal R. M., Serçinoğlu O., Özbek Sarıca P.
Nucleic Acids Research, vol.1, no.1, 2019 (Journal Indexed in SCI)
- IX. **How Do Mutations and Allosteric Inhibitors Modulate Caspase-7 Activity? A Molecular Dynamics Study**
Bingol E. N., Serçinoğlu O., Özbek Sarıca P.
Journal Of Biomolecular Structure & Dynamics, vol.37, no.13, pp.3456-3466, 2019 (Journal Indexed in SCI)
- X. **gRINN: a tool for calculation of residue interaction energies and protein energy network analysis of molecular dynamics simulations**

Sercinoglu O., Özbek Sarıca P.

NUCLEIC ACIDS RESEARCH, vol.46, 2018 (Journal Indexed in SCI)

- XI. **Computational characterization of residue couplings and micropolymerism-induced changes in the dynamics of two differentially disease-associated human MHC class-I alleles**
Sercinoglu O., Özbek Sarıca P.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.36, pp.724-740, 2018 (Journal Indexed in SCI)
- XII. **A computational docking study on the pH dependence of peptide binding to HLA-B27 sub-types differentially associated with ankylosing spondylitis**
Sercinoglu O., Ozcan G., Kabas Z. K. , ÖZBEK SARICA P.
JOURNAL OF COMPUTER-AIDED MOLECULAR DESIGN, vol.30, no.7, pp.569-581, 2016 (Journal Indexed in SCI)
- XIII. **Dynamic characterization of HLA-B*44 Alleles: A comparative molecular dynamics simulation study**
ÖZBEK SARICA P.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.62, pp.12-16, 2016 (Journal Indexed in SCI)
- XIV. **DynaFace: Discrimination between Obligatory and Non-obligatory Protein-Protein Interactions Based on the Complex's Dynamics**
Soner S., ÖZBEK SARICA P., Garzon J. I. , Ben-Tal N., HALILOĞLU T.
PLOS COMPUTATIONAL BIOLOGY, vol.11, no.10, 2015 (Journal Indexed in SCI)
- XV. **Hot Spots in a Network of Functional Sites**
ÖZBEK SARICA P., Soner S., HALILOĞLU T.
PLOS ONE, vol.8, no.9, 2013 (Journal Indexed in SCI)
- XVI. **Community wide assessment of protein interface modeling suggests improvements to design methodology**
Sarel J F., Timothy A W., Strauch E., Corn J. E. , Qin S., Zhou H., Mitchell J. C. , Omar NA D., Mayuko T., Genki T., et al.
Journal Of Molecular Biology, vol.414, pp.289-302, 2011 (Journal Indexed in SCI Expanded)
- XVII. **DNABINDPROT fluctuation based predictor of DNA binding residues within a network of interacting residues**
Özbek Sarıca P., Soner S., Erman B., Haliloglu T.
Nucleic Acids Research, vol.38, pp.417-423, 2010 (Journal Indexed in SCI Expanded)
- XVIII. **Fracture mechanics analysis of arc shaped specimens for pipe grade polymers**
ÖZBEK SARICA P., Argyrakı C., Leever P.
Polymer Testing, vol.28, pp.357-361, 2009 (Journal Indexed in SCI Expanded)
- XIX. **Uniaxial tensile properties underlying plane stress rapid fracture resistance in polyethylene**
ÖZBEK SARICA P., Leever P.
Polymer Engineering And Science, vol.48, pp.1855-1861, 2008 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **HLA Moleküllerinde Peptit Ligandlarının Kompleks Stabilitesine Olan Etkisinin Araştırılması**
Bunsuz A., Serçinođlu O., Özbek Sarıca P.
International journal of advances in engineering and pure sciences (Online), vol.30, 2018 (Other Refereed National Journals)
- II. **HLA Proteinlerinin GNM Metodu ile Dinamik Karakterizasyonu**
Serçinođlu O., Özbek Sarıca P.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.20, pp.376-399, 2018 (Other Refereed National Journals)
- III. **Protein dynamics**
ÖZBEK SARICA P., Haliloglu T.
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.27, pp.161-170, 2009 (Other Refereed National Journals)
- IV. **Plane stress rapid fracture resistance of pipe grade PE Estimation from tensile drawing data**
ÖZBEK SARICA P., Leever P. S.

Books & Book Chapters

I. In Silico Databases and Tools for Drug Repurposing

Serçinoğlu O., Özbek Sarıca P.

in: In Silico Drug Design, Kunal Roy, Editor, Elsevier Science, Oxford/Amsterdam , London, pp.703-743, 2019

Refereed Congress / Symposium Publications in Proceedings

I. New inhibitors of the BmrA pump identified through virtual screening

Senturk D., SERÇİNOĞLU O., ALTINIŞIK KAYA F. E. , Frlan R., Tomasic T., AVCI F. G. , ÖZBEK SARICA P., Orelle C., Jault J. M. , SARIYAR AKBULUT B.

MuTaLig COST ACTION CA15135 4th WG meeting, 05 March 2020

II. Exploring dynamics of pMHC using accelerated molecular dynamics

Bingol E. N. , ÖZBEK SARICA P.

7th International Bahçeşehir University (BAU) Drug Design Congress, 19 - 21 December 2019

III. Exploring dynamics of pMHC using accelerated molecular dynamics

Bingol E. N. , ÖZBEK SARICA P.

7th International Bahçeşehir University (BAU) Drug Design Congress, 19 - 21 December 2019

IV. Identification of allostery in CREB-Binding Protein via using pairwise residue interaction energy method

YAZAR M., ÖZBEK SARICA P.

7th International Bahçeşehir University (BAU) Drug Design Congress, 19 - 21 December 2019

V. A Tool for Investigating Protein Signaling Network by Perturbation of External Energy Dissipation

özer m. e. , özdemir h. i. , SERÇİNOĞLU O., Bingol E. N. , ÖZBEK SARICA P.

7th International Bahçeşehir University (BAU) Drug Design Congress, 19 - 21 December 2019

VI. A Tool for Investigating Protein Signaling Network by Perturbation of External Energy Dissipation

özer m. e. , özdemir h. i. , SERÇİNOĞLU O., Bingol E. N. , ÖZBEK SARICA P.

7th International Bahçeşehir University (BAU) Drug Design Congress, 19 - 21 December 2019

VII. Ailesel Meme Kanseri Hastalarında BRCA1 ve BRCA2 Genlerinin Yeni Nesil Dizileme Yöntemi ile Dizilenmesi ve Telomer Uzunluğuyla İlişkisi

Peker İ., YENMİŞ G., Bingöl E. N. , YÜKSEL Ş., TOKAT F., ÖZBEK SARICA P., GÜLLÜ AMURAN G., YAKICIER M. C. , AKKİPRİK M.

XVI. TIBBİ BİYOLOJİ VE GENETİK KONGRESİ, Muğla, Turkey, 27 - 30 October 2019

VIII. Comparative dynamical characterization of TCR and MHC molecules upon binding via molecular dynamics simulations

Bingol E. N. , SERÇİNOĞLU O., ÖZBEK SARICA P.

ECOMB, 19 - 21 September 2019

IX. Dynamical characterization of TCR-pMHC complex: A comparative molecular dynamics study

Bingol E. N. , SERÇİNOĞLU O., ÖZBEK SARICA P.

6th International BAU-Drug Design Congress, 13 - 15 December 2018

X. Comparison of allosteric pathway identification of CREB-binding protein using computational methods

YAZAR M., ÖZBEK SARICA P.

6th International BAU-Drug Design Congress, 13 - 15 December 2018

XI. Biophysical Links Between Polymorphism, Stability and Peptide-Binding in the Major Histocompatibility Complex

SERÇİNOĞLU O., ÖZBEK SARICA P.

6th International BAU-Drug Design Congress, 13 - 15 December 2018

- XII. **Biophysical Links Between Polymorphism, Stability and Peptide-Binding in the Major Histocompatibility Complex**
SERÇİNOĞLU O., ÖZBEK SARICA P.
6th International BAU-Drug Design Congress, 13 - 15 December 2018
- XIII. **Comparative Analysis of Two Binding Sites on The BmrA Efflux Pump**
şentürk karagöz d., SERÇİNOĞLU O., ÖZBEK SARICA P., orelle c., Jault J., SARIYAR AKBULUT B.
6th International BAU-Drug Design Congress, Turkey, 13 - 15 December 2018
- XIV. **Protein Networks: Development of a web tool to analyze protein structural topology**
aydınkal r. m. , SERÇİNOĞLU O., ÖZBEK SARICA P.
6th International BAU-Drug Design Congress, 13 - 15 December 2018
- XV. **VIRTUAL SCREENING FOR INHIBITORS OF THE BmrA PUMP**
şentürk karagöz d., SERÇİNOĞLU O., SARIYAR AKBULUT B., ÖZBEK SARICA P., orelle c., jault j. m.
HIBIT 2018 11TH INTERNATIONAL SYMPOSIUM ON HEALTH INFORMATICS AND BIOINFORMATICS, 25 - 27 October 2018
- XVI. **Comparison of computational allosteric pathway identification methods**
YAZAR M., SERÇİNOĞLU O., ÖZBEK SARICA P.
International conference on applied mathematics, modeling and Life Sciences, 3 - 05 October 2018
- XVII. **Biophysical basis of MHC Class I polymorphism**
SERÇİNOĞLU O., ÖZBEK SARICA P.
International conference on applied mathematics, modeling and Life Sciences, 3 - 05 October 2018
- XVIII. **Investigation of catalytic loop motions and global dynamics of caspase-7 structures**
Bingöl E. N. , SERÇİNOĞLU O., ÖZBEK SARICA P.
International conference on applied mathematics, modeling and Life Sciences, 3 - 05 October 2018
- XIX. **Understanding the dynamic nature of proteins using molecular dynamics (MD) simulations**
ÖZBEK SARICA P.
International conference on applied mathematics, modeling and Life Sciences, 3 - 05 October 2018
- XX. **Computational Approaches to the Investigation of Peptide-MHC Complex Stability**
Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.
International conference on applied mathematics, modeling and Life Sciences, 3 - 05 October 2018
- XXI. **Development of a web-based tool for network analysis of protein structures**
Aydınkal R. M. , SERÇİNOĞLU O., ÖZBEK SARICA P.
International conference on applied mathematics, modeling and Life Sciences, 3 - 05 October 2018
- XXII. **Quantifying Peptide Binding Affinities From Non-Equilibrium Work**
SERÇİNOĞLU O., ÖZBEK SARICA P.
62nd Biophysical Society Annual Meeting, 17 - 21 February 2018
- XXIII. **Quantifying Peptide Binding Affinities from Non-equilibrium Work**
Sercinoglu O., ÖZBEK SARICA P.
62nd Annual Meeting of the Biophysical-Society, San-Francisco, Costa Rica, 17 - 21 February 2018, vol.114
- XXIV. **A Software Tool for Parallel Computation and Characterization of Residue Interaction Energies from Molecular Dynamics Simulations**
SERÇİNOĞLU O., ÖZBEK SARICA P.
International Symposium on Chemistry via Computation Applications on Molecular Nanoscience, 30 October 2017
- XXV. **Effect of temperature on the molecular dynamics simulations of HLA-A 02 alleles,**
Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.
International Symposium on Chemistry via Computation Applications on Molecular Nanoscience, 30 October 2017
- XXVI. **Construction of allosteric residue networks in caspase-7 using energy perturbation responses**
Bingöl E. N. , SERÇİNOĞLU O., ÖZBEK SARICA P.
International Symposium on Chemistry via Computation Applications on Molecular Nanoscience, 30 October 2017
- XXVII. **Steered Molecular Dynamics Simulation for Efficient Ranking of Peptide - MHC Class I Binding Affinities_**

- SERÇİNOĞLU O., ÖZBEK SARICA P.
5th International BAU-Drug Design Congress, 19 - 21 October 2017
- XXVIII. **Steered Molecular Dynamics Simulation for Efficient Ranking of Peptide - MHC Class I Binding Affinities**
SERÇİNOĞLU O., ÖZBEK SARICA P.
5th International BAU-Drug Design Congress, 19 - 21 October 2017
- XXIX. **Immunogenic Peptide - HLA-A 02:01 Complexes Studied by Comparative Molecular Dynamics Simulation**
Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.
5th International BAU-Drug Design Congress, 19 - 21 October 2017
- XXX. **Detection of the allosteric residue network in effector caspase molecules by energy dissipation model**
Bingol E. N. , SERÇİNOĞLU O., ÖZBEK SARICA P.
5th International BAU-Drug Design Congress, 19 - 21 October 2017
- XXXI. **Allelic dependence of MHC I stability on peptide termini conta ts in MD simulations**
SERÇİNOĞLU O., ÖZBEK SARICA P.
19th UIPAB congress and 11th EBSA congress, 16 - 20 July 2017
- XXXII. **Investigation of Peptide Binding Affinity and Thermal Stability of Human Leukocyte Antigens (HLAs)**
Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.
19th UIPAB congress and 11th EBSA congress, 16 - 20 July 2017
- XXXIII. **Searching a communication pathway between allosteric site and binding region in effector caspase molecules**
Bingöl E. N. , SERÇİNOĞLU O., ÖZBEK SARICA P.
BAU Drug Design, 13 - 15 October 2016
- XXXIV. **Investigation of Peptide Binding Affinity and Complex Stability of Human Leukocyte Antigens HLAs**
bunsuz a., SERÇİNOĞLU O., ÖZBEK SARICA P.
BAU Drug Design, 12 - 15 October 2016
- XXXV. **Exploration of allosteric paths in caspase molecules using energy dissipation**
Bingol E. N. , Sercinoglu O., Sarica P.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.235
- XXXVI. **Allelic modulation of global dynamics of HLA B 27 05 and HLA B 27 09 molecules**
SERÇİNOĞLU O., ÖZBEK SARICA P.
13th Greta Pifat Mrzljak International School of Biophysics, 1 - 10 September 2016
- XXXVII. **HLA B 44 Alellerinin Peptid Bağlanma Davranış Mekanizmalarının Hesaplamalı Olarak Araştırılması**
Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.
Biruni Üniversitesi Bilgisayar Destekli İlaç Tasarımı, Turkey, 16 - 17 May 2016
- XXXVIII. **Investigating dynamics of HLA molecules by energy dissipation**
Bingöl E. N. , Sercinoglu O., ÖZBEK SARICA P.
Biophysical Society 60th Annual Meeting, Los-Angeles, United States Of America, 27 February - 02 March 2016
- XXXIX. **Investigating Dynamics of HLA Molecules by Energy Dissipation**
Bingol E. N. , Sercinoglu O., ÖZBEK SARICA P.
60th Annual Meeting of the Biophysical-Society, Los-Angeles, Chile, 27 February - 02 March 2016, vol.110
- XL. **Computational study on the binding behaviour of HLA B44 alleles**
Sercinoglu O., ÖZBEK SARICA P.
3rd International BAU-Drug Design Congress, Istanbul, 1 - 03 October 2015
- XLI. **Structural characterization of peptide binding to class I MHC proteins using protein energy networks from molecular dynamics simulations**
Sercinoglu O., ÖZBEK SARICA P.
3rd International BAU-Drug Design Congress, Istanbul, 1 - 03 October 2015
- XLII. **Investigation of the binding behaviour of HLA B27 alleles at varying pH Conditions using**

computational methods

Sercinoglu O., ÖZBEK SARICA P.

3rd International BAU-Drug Design Congress, Istanbul, 1 - 03 October 2015

- XLIII. **Computational investigation of protein dynamics based on energy dissipation**
Sercinoglu O., ÖZBEK SARICA P.
3rd International BAU-Drug Design Congress, Istanbul, 1 - 03 October 2015
- XLIV. **Peptide dependent binding stabilization effect of 2 microglobulin on HLA B27 alleles**
Sercinoglu O., ÖZBEK SARICA P.
10th European Biophysics Congress, Dresden, 17 - 22 July 2015
- XLV. **Computational study on the binding behaviour of HLA B27 alleles at varying pH conditions**
Ozcan G., Kutlu Kabas Z., Sercinoglu O., ÖZBEK SARICA P.
10th European Biophysics Congress, Dresden, 17 - 22 July 2015
- XLVI. **Computational study on the binding behaviour of HLA-B27 alleles at varying pH conditions**
Ozcan G., Kabas Z. K. , Sercinoglu O., Ozbek P.
10th European-Biophysical-Societies-Association (EBSA) European Biophysics Congress, Dresden, Germany, 18 - 22 July 2015, vol.44
- XLVII. **Peptide-dependent binding-stabilization effect of beta 2m on HLA B27 alleles: A computational study**
Sercinoglu O., Ozbek P.
10th European-Biophysical-Societies-Association (EBSA) European Biophysics Congress, Dresden, Germany, 18 - 22 July 2015, vol.44
- XLVIII. **An investigation of the effects of model simplification and water box shell size on the molecular dynamics simulations of peptide loaded major histocompatibility complex proteins**
Sercinoglu O., ÖZBEK SARICA P.
Modeling of Biomolecular Systems Interactions, Dynamics, and Allostery: Bridging Experiments and Computations, 10 - 14 September 2014
- XLIX. **Comparison of the binding behavior of HLA B alleles related to ankylosing spondylitis disease by computational methods**
Kutlu Kabas Z., Ozcan G., Sercinoglu O., ÖZBEK SARICA P.
Modeling of Biomolecular Systems Interactions, Dynamics, and Allostery: Bridging Experiments and Computations, 10 - 14 September 2014
- L. **Computational investigation of the energy exchange pathways in peptide loaded major histocompatibility complex proteins**
Sercinoglu O., Ozcan G., ÖZBEK SARICA P.
Modeling of Biomolecular Systems Interactions, Dynamics, and Allostery: Bridging Experiments and Computations, 10 - 14 September 2014
- LI. **Comparative study of functional dynamics in mutant von hippel lindau tumor suppressor protein structures**
Güçlü T. F. , ÖZBEK SARICA P., Ozer A. N.
Modeling of Biomolecular Systems Interactions, Dynamics, and Allostery: Bridging Experiments and Computations, Istanbul, Turkey, September 10-14, 2014, 10 - 14 September 2014, pp.92
- LII. **Binding behavior of HLA B alleles related to ankylosing spondylitis AS disease A comparative study by computational methods**
Ozcan G., Kutlu Kabas Z., Sercinoglu O., ÖZBEK SARICA P.
ECCB'xx14, the 13th European Conference on Computational Biology, Strasbourg, 7 - 10 September 2014
- LIII. **Computational study on the effect of pH on the binding behaviour of HLA B alleles**
Kutlu Kabas Z., Ozcan G., Sercinoglu O., ÖZBEK SARICA P.
ECCB'xx14, the 13th European Conference on Computational Biology, 7 - 10 September 2014
- LIV. **Dynamic Analysis of Mutant von Hippel Lindau Tumor Suppressor Protein structures**
Güçlü T. F. , ÖZBEK SARICA P., Ozer A. N.
2nd International BAU-Drug Design Congress, Istanbul, 17 - 19 April 2014
- LV. **The intrinsic dynamics of partner chains aid in the detection of native complexes amongst docking**

decoys

ÖZBEK SARICA P.

Computational Biophysics Workshop, University of Pittsburgh, 10 - 14 June 2013

- LVI. **The intrinsic dynamics of partner chains aid in the detection of native complexes amongst docking decoys**
Kaya C., Soner S., ÖZBEK SARICA P., Haliloglu T.
CAPRI 2013 Combine and Conquer Meeting, 17 - 19 April 2013
- LVII. **Collective Dynamics provides a measure for biological association**
Soner S., Ovalı Ş. K., ÖZBEK SARICA P., BenTal N., Haliloglu T.
CAPRI 2013 Combine and Conquer Meeting, 17 - 19 April 2013
- LVIII. **Dynamics predefine protein binding**
Soner S., ÖZBEK SARICA P., Haliloglu T.
Chemical Physics Congress-IX Izmir, İzmir, Turkey, 14 - 16 October 2010
- LIX. **Dynamics and evolutionary conservation of inter protein interfaces aid in the detection of native complexes amongst docking decoys**
ÖZBEK SARICA P., Soner S., Chen N., Kalman M., Erman B., Bental N., Haliloglu T.
CAPRI 4th Evaluation Meeting, 9 - 11 December 2009
- LX. **The origins of polyethylenes resistance to rapid plane stress rupture**
ÖZBEK SARICA P., Leever P.
5th ESIS TC4 Conference on Fracture of Polymers, Composites and Adhesives, 7 - 11 September 2008
- LXI. **Plane stress rapid fracture resistance of pipe grade PE Estimation from tensile drawing data**
ÖZBEK SARICA P., Leever P.
ANTEC Conference Proceedings, 6 - 10 May 2007

Supported Projects

Sariyar Akbulut B., Sayar N. A., Özbek Sarica P., TÜBİTAK International Multi-Cooperation Project, Replacing food-competing feedstocks with Methanol, CO₂ and Methylamine for a Sustainable Bioeconomy, 2021 - 2024

Sariyar Akbulut B., Sayar N. A., Özbek Sarica P., Kazan D., TÜBİTAK International Bilateral Joint Cooperation Program Project, Rational design of Corynebacterium glutamicum for a microbial cell factory to synthesize L-DOPA and bioprocess development for L-DOPA production, 2021 - 2024

Sariyar Akbulut B., Özbek Sarica P., Avci F. G., Keskin Özkaya Z. Ö., TUBITAK Project, Inhibition and characterization of the inhibition dynamics of the type 4 pili protein complex, 2020 - 2023

Özbek Sarica P., Sariyar Akbulut B., Project Supported by Other Official Institutions, Peptidlerle ilişkili bağışıklık sistemi proteinlerinin çalışma mekanizmalarının aydınlatılması, 2020 - 2022

Arğa K. Y., ÖZBEK SARICA P., TUBITAK Project, Kolorektal kanserinde farklılaşan protein-protein etkileşimleri üzerinden ilaç repozisyonu, 2019 - 2020

Özbek Sarica P., TUBITAK Project, Development of a web based tool for protein network investigation, 2019 - 2020

Özbek Sarica P., Project Supported by Higher Education Institutions, Computational Investigation of Peptide Binding Affinity and Complex Stability of Major Histocompatibility Complex (MHC), 2018 - 2020

Sariyar Akbulut B., Özbek Sarica P., Avci F. G., Project Supported by Higher Education Institutions, Evaluation of the alkaloids of the aporphine family as inhibitors of different efflux pumps using in vitro and in silico methods, 2017 - 2019

Özbek Sarica P., Project Supported by Higher Education Institutions, Moleküler Dinamik Simülasyon Bazlı Sarsım Yöntemi ile Protein İçi Sinyal İletim Mekanizmasının Karakterizasyonu, 2016 - 2018

Özbek Sarica P., Project Supported by Higher Education Institutions, Computational Dynamical Characterization of Human Major Histocompatibility Complex Proteins, 2015 - 2018

Özbek Sarica P., Project Supported by Higher Education Institutions, Dynamic Characterization of Protein-protein Interfaces using Gaussian Network Model, Marmara University Research Fund Project, 2014 - 2015

Özbek Sarica P., TUBITAK Project, Dynamic Characterization of HLA Molecules, 2013 - 2015

Özbek Sarica P., Project Supported by Higher Education Institutions, Dynamic Characterization of Protein Binding

Mechanism, 2012 - 2013

Özbek Sarıca P., Haliloğlu T., TUBITAK Project, Proteinlerde Bağlanma Mekanizmasında Yapısal Dinamik, 2009 - 2010

Memberships / Tasks in Scientific Organizations

Biophysical Society, Member, 2016 - Continues

Edit Congress and Symposium Activities

International conference on applied mathematics, modeling and Life Sciences, Working Group, İstanbul, Turkey, 2018

Biophysical Society 62th Annual Meeting, Working Group, California, United States Of America, 2018

International Symposium on Chemistry via Computation Applications on Molecular Nanoscience, Working Group, İstanbul, Turkey, 2017

5th International BAU Drug Design Congress, Working Group, İstanbul, Turkey, 2017

Biophysical Society 60th Annual Meeting, Working Group, California, United States Of America, 2016

3rd International BAU Drug Design Congress, Working Group, İstanbul, Turkey, 2015

10th European Biophysics Congress, Working Group, Dresden, Germany, 2015

Biophysical Society Thematic Meeting: Modeling of Biomolecular Systems Interactions, Dynamics, and Allostery: Bridging Experiments and Computations, Working Group, İstanbul, Turkey, 2014

Joint TCBG/MMBioS Hands-on Workshop on Computational Biophysics, Working Group, Pennsylvania, United States Of America, 2013

Schrodinger Workshop, "Computational Drug Discovery", Working Group, İstanbul, Turkey, 2012

Three-days HADDOCK workshop, Working Group, İstanbul, Turkey, 2011

Scholarships

TUBITAK-BİDEB 2218 (Turkish National Science and Technology Foundation), TUBITAK, 2009 - 2011

Chevron Phillips Chemical Company, Other International Organizations, 2004 - 2008

Overseas Research Student Awards Scheme (ORSAS), Other International Organizations, 2004 - 2008