Prof. PEMRA ÖZBEK SARICA

Personal Information

Office Phone: +90 216 777 3571

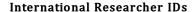
Email: pemra.ozbek@marmara.edu.tr

Other Email: pemra.ozbek@gmail.com

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

Address: Marmara Universitesi, RTE Kampüsü, Biyomuhendislik Bolumu, M2-250, Maltepe,

Istanbul



ScholarID: KAzRN-MAAAAJ ORCID: 0000-0002-3043-0015

Publons / Web Of Science ResearcherID: A-3594-2016

ScopusID: 21935134300 Yoksis Researcher ID: 37047



Doctorate, Imperial College of Science, Technology and Medicine, Faculty of Engineering, Mechanical Engineering Dept., United Kingdom 2004 - 2008
Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1999 - 2004

Biography

Prof. Dr. Pemra ÖZBEK SARICA was born in 1982, Istanbul. 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.

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, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, 2008 - 2011

Research Assistant, Imperial College of Science, Technology and Medicine, Mühendislik Fakültesi, Makina Mühendisliği, 2004 - 2008

Academic and Administrative Experience



Deputy Head of Department, Marmara University, Faculty of Engineering, Bioengineering, 2019 - 2022

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., INVESTIGATION OF TYPE 4 PILI ATPASE INHIBITOR USING COMPUTATIONAL TOOLS, Postgraduate, A.Özcan(Student), 2021

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

SARIYAR AKBULUT B., ÖZBEK SARICA P., Computational study on the inhibition multidrug resistance efflux pumps, Postgraduate, 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), Postgraduate, A.Bunsuz(Student), 2018

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

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

I. Polymorphism in F pocket affects peptide selection and stability of type 1 diabetes-associated HLA-B39 allotypes.

Amarajeewa A. W. P., Özcan A., Mukhtiar A., Ren X., Wang Q., Ozbek P., Garstka M. A., Serçinoğlu O. European journal of immunology, vol.54, no.6, 2024 (SCI-Expanded)

II. Attenuation of Type IV pili activity by natural products

Yalkut K., Ben Ali Hassine S., Basaran E., KULA C., Ozcan A., Avci F. G., Keskin O., SARIYAR AKBULUT B., ÖZBEK SARICA P.

Journal of Biomolecular Structure and Dynamics, 2024 (SCI-Expanded)

III. Piperidine-based natural products targeting Type IV pili antivirulence: A computational approach Ozcan A., Keskin O., Sariyar Akbulut B., Özbek Sarica P.

JOURNAL OF MOLECULAR GRAPHICS & MODELLING, vol.119, 2023 (SCI-Expanded)

IV. A review on the mechanistic details of OXA enzymes of ESKAPE pathogens

Avci F. G., Tastekil I., Jaisi A., ÖZBEK SARICA P., SARIYAR AKBULUT B.

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V. Epistatic effects between amino acid insertions and substitutions mediate toxin-resistance of vertebrate Na+, K+-ATPases

Mohammadi S., Özdemir H. I., Özbek Sarica P., Sumbul F., Stiller J., Deng Y., Crawford A. J., Rowland H. M., Storz J. F., Andolfatto P., et al.

MOLECULAR BIOLOGY AND EVOLUTION, vol.1, no.1, pp.100-102, 2022 (SCI-Expanded)

VI. How Epstein-Barr virus envelope glycoprotein gp350 tricks the CR2? A molecular dynamics study Bingöl E. N., Taştekil I., Yay C., Keskin N., ÖZBEK SARICA P.

Journal of Molecular Graphics and Modelling, vol.114, 2022 (SCI-Expanded)

VII. Assessment of 13 in silico pathogenicity methods on cancer-related variants

Computers in Biology and Medicine, vol.145, 2022 (SCI-Expanded)

Yazar M., ÖZBEK SARICA P.

VIII. Exploring the recognition differences of peptides in TCR-pMHC complex

Bingol E. N., Özbek Sarica P.

BIOPHYSICAL JOURNAL, vol.121, no.3, 2022 (SCI-Expanded)

IX. Hydration modulates oxygen channel residues for oxygenation of cysteine dioxygenase:

Perspectives from molecular dynamics simulations

Tariq M., Özbek Sarica P., Moin S. T.

JOURNAL OF MOLECULAR GRAPHICS & MODELLING, vol.110, 2022 (SCI-Expanded)

X. Systems biomarkers for papillary thyroid cancer prognosis and treatment through multi-omics

Gulfidan G., Soylu M., Demirel D., Erdonmez H. B. C., Beklen H., ÖZBEK SARICA P., ARĞA K. Y., TURANLI B. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.715, 2022 (SCI-Expanded)

XI. Unraveling the Allosteric Communication Mechanisms in T-Cell Receptor-Peptide-Loaded Major
Histocompatibility Complex Dynamics Using Molecular Dynamics Simulations: An Approach Based on
Dynamic Cross Correlation Maps and Residue Interaction Energy Calculations

Bingol E. N., Sercinoglu O., Özbek Sarica P.

JOURNAL OF CHEMICAL INFORMATION AND MODELING, vol.61, no.5, pp.2444-2453, 2021 (SCI-Expanded)

XII. In SilicoTools 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, vol.25, pp.23-37, 2021 (SCI-Expanded)

XIII. 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 (SCI-Expanded)

XIV. 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 (SCI-Expanded)

XV. Sequence-structure-function relationships in class I MHC: A local frustration perspective Serçinoğlu O., Ozbek P.

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XVI. New Machine Learning Applications to Accelerate Personalized Medicine in Breast Cancer: Rise of the Support Vector Machines

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OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.24, no.5, pp.241-246, 2020 (SCI-Expanded)

XVII. 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 (SCI-Expanded)

XVIII. 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, no.1, pp.5-15, 2020 (SCI-Expanded)

XIX. ProSNEx: a web-based application for exploration and analysis of protein structures using network formalism

Aydınkal R. M., Serçinoğlu O., Özbek Sarıca P.

Nucleic Acids Research, vol.1, no.1, 2019 (SCI-Expanded)

XX. 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 (SCI-Expanded)

XXI. 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 (SCI-Expanded)

XXII. Computational characterization of residue couplings and micropolymorphism-induced changes in the dynamics of two differentially disease-associated human MHC class-I alleles

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JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.36, pp.724-740, 2018 (SCI-Expanded)

XXIII. 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 (SCI-Expanded)

XXIV. 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 (SCI-Expanded)

XXV. DynaFace: Discrimination between Obligatory and Non-obligatory Protein-Protein Interactions Based on the Complex's Dynamics

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PLOS COMPUTATIONAL BIOLOGY, vol.11, no.10, 2015 (SCI-Expanded)

XXVI. Hot Spots in a Network of Functional Sites

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XXVII. 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 (SCI-Expanded)

XXVIII. 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 (SCI-Expanded)

XXIX. Fracture mechanics analysis of arc shaped specimens for pipe grade polymers

ÖZBEK SARICA P., Argyrakis C., Leevers P.

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XXX. Uniaxial tensile properties underlying plane stress rapid fracture resistance in polyethylene ÖZBEK SARICA P., Leevers P.

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Articles Published in Other Journals

I. Differential Interactome Based Drug Repositioning Unraveled Abacavir, Exemestane, Nortriptyline Hydrochloride, and Tolcapone as Potential Therapeutics for Colorectal Cancers

beklen h., arslan s., Gulfidan G., Turanlı B., ÖZBEK SARICA P., Karademir Yılmaz B., ARĞA K. Y.

Frontiers in Bioinformatics, vol.1, 2021 (Peer-Reviewed Journal)

II. HLA Moleküllerinde Peptit Ligandlarının Kompleks Stabilitesine Olan Etkisinin Araştırılması Bunsuz A., Serçinoğlu O., Özbek Sarıca P.

International journal of advances in engineering and pure sciences (Online), vol.30, 2018 (Peer-Reviewed Journal)

III. Dynamic Characterization of HLA Molecules by GNM

SERÇİNOĞLU O., ÖZBEK SARICA P.

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.20, no.59, pp.376-399, 2018 (Peer-Reviewed Journal)

IV. Protein dynamics

ÖZBEK SARICA P., Haliloglu T.

Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.27, pp.161-170, 2009 (Peer-Reviewed Journal)

V. Plane stress rapid fracture resistance of pipe grade PE Estimation from tensile drawing data ÖZBEK SARICA P., Leevers P. S.

ANTEC Conference Proceedings, vol.5, pp.2880-2884, 2007 (Peer-Reviewed Journal)

Books & Book Chapters

I. MOLEKÜLER DİNAMİK (MD) SİMÜLASYONLARI

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

in: PROTEİN: YAPISI, MÜHENDİSLİĞİ, ETKİLEŞİMLERİ, DİNAMİĞİ VE İLAÇ TASARIMINDAKİ YERİ, Saliha Ece Acuner, Editor, Ankara Nobel Tıp Kitabevleri, İstanbul, pp.237-255, 2021

II. 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. Implications of Machine Learning Approaches in Cancer for Biomarker Discovery: Oversampling and Feature Selection

Soyer S. M., Özbek Sarica P., Kasavi C.

5th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2024), Ankara, Turkey, 26 - 28 June 2024

II. Differential Interactome Based Drug Repositioning Unraveled Potential Therapeutics for Colorectal

BEKLEN H., Arslan S., GULFİDAN G., TURANLI B., ÖZBEK SARICA P., YILMAZ B., ARĞA K. Y.

3rd EURASIA BIOCHEMICAL APPROACHES & ECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 4 - 07 November 2021

III. 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

IV. Exploring dynamics of pMHCusing accelerated molecular dynamics

Bingol E. N., ÖZBEK SARICA P.

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

V. Identification of allostery in CREB-Binding Protein via using pairwiseresidue interaction energy method

YAZAR M., 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 EYÜBOĞLU İ., YENMİŞ G., BİNGÖL E. N., YÜKSEL KILIÇTURGAY Ş., TOKAT F., ÖZBEK SARICA P., GÜLLÜ AMURAN G., YAKICIER M. C., AKKİPRİK M.

Tıbbi Biyoloji ve Genetik kongresi, Turkey, 27 - 30 October 2019

VIII. Determination Of Candidate Biomarkers Through Differential Interactome in Colorectal Adenocarcinoma

BEKLEN H., GULFİDAN G., TURANLI B., ÖZBEK SARICA P., YILMAZ B., ARĞA K. Y.

The 12th International Symposium on Health Informatics and Bioinformatics (HIBIT 2019), İzmir, Turkey, 17 - 19

October 2019

IX. 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

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. 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

XII. 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

XIII. Dynamical characterization of TCRpMHC complex: A comparative molecular dynamics study Bingol E. N., SERÇİNOĞLU O., ÖZBEK SARICA P.

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

XIV. 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

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. 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

XVII. 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

XVIII. Computational Approaches to the Investigation of Peptide-MHC Complex Stability Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.

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XIX. Comparison of computational allosteric pathwayidentification methods YAZAR M., SERÇİNOĞLU O., ÖZBEK SARICA P.

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XX. Investigation of catalytic loop motions and global dynamics of caspase- 7 structures Bingöl E. N., SERÇİNOĞLU O., ÖZBEK SARICA P.

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XXI. Understanding the dynamic nature of proteins using molecular dynamics (MD) simulations ÖZBEK SARICA P.

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XXII. 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

XXIII. 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

XXIV. Construction of allosteric residue networks in caspase-7 using energy perturbation responses

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XXV. A Software Tool for Parallel Computation and Characterization of Residue Interaction Energies from Molecular Dynamics Simulations

SERÇİNOĞLU O., ÖZBEK SARICA P.

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XXVI. Immunogenic Peptide - HLA-A 02:01 Complexes Studied by Comparative Molecular Dynamics Simulation

Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.

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XXVII. Steered Molecular Dynamics Simulation for Efficient Ranking of Peptide - MHC Class I Binding Affinities

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XXVIII. Detection of the allosteric residue network in effector caspase molecules by energy dissipation model

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

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XXIX. Investigation of Peptide Binding Affinity and Thermal Stability of Human Leukocyte Antigens (HLAs)
Bunsuz A., SERÇİNOĞLU O., ÖZBEK SARICA P.

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XXX. Allelic dependence of MHC I stability on peptide termini conta ts in MD simulations SERÇİNOĞLU O., ÖZBEK SARICA P.

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XXXI. Searching a communication pathway between allosteric siteand binding region in effector caspase molecules

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

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XXXII. Investigation of Peptide Binding Affinity and Complex Stability of Human Leukocyte Antigens HLAs bunsuz a., SERÇİNOĞLU O., ÖZBEK SARICA P.

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XXXIII. Exploration of allosteric paths in caspase molecules using energy dissipation

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41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.235

XXXIV. Allelic modulation of global dynamics of HLA B 27 05 and HLA B 27 09 molecules SERÇİNOĞLU O., ÖZBEK SARICA P.

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XXXV. 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

XXXVI. Investigating Dynamics of HLA Molecules by Energy Dissipation

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

XXXVII. 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

XXXVIII. Computational study on the binding behaviour of HLA B44 alleles

Sercinoglu O., ÖZBEK SARICA P.

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XXXIX. Computational investigation of protein dynamics based on energy dissipation

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XL. Structural characterization of peptide binding to class I MHC proteins using protein energy networks from molecular dynamics simulations

Sercinoglu O., ÖZBEK SARICA P.

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XLI. Computational study on the binding behaviour of HLA B27 alleles at varying pH conditions
Ozcan G., Kutlu Kabas Z., Sercinoglu O., ÖZBEK SARICA P.

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XLII. Peptide dependent binding stabilization effect of 2 microglobulin on HLA B27 alleles Sercinoglu O., ÖZBEK SARICA P.

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XLIII. Peptide-dependent binding-stabilization effect of beta 2m on HLA B27 alleles: A computational study Sercinoglu O., Ozbek P.

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XLIV. Computational study on the binding behaviour of HLA-B27 alleles at varying pH conditions

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XLV. Comparative study of functional dynamics in mutant von hippel lindau tumor suppressor protein structures

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XLVI. Computational investigation of the energy exchange pathways in peptide loaded major histocompatibility complex proteins

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XLVII. 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

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XLVIII. Comparison of the binding behavior of HLA B alleles related to ankylosing spondylitis disease by computational methods

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XLIX. Binding behavior of HLA B alleles related to ankylosing spondylitis AS disease A comparative study by computational methods

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Kutlu Kabas Z., Ozcan G., Sercinoglu O., ÖZBEK SARICA P.

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LI. Dynamic Analysis of Mutant von Hippel Lindau Tumor Suppressor Protein structures Güçlü T. F., ÖZBEK SARICA P., Ozer A. N.

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LII. 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

LIII. 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.

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LIV. Dynamics predefine protein binding

Soner S., ÖZBEK SARICA P., Haliloglu T.

Chemical Physics Congress-IX Izmir, İzmir, Turkey, 14 - 16 October 2010

LV. 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

LVI. The origins of polyethylenes resistance to rapid plane stress rupture

ÖZBEK SARICA P., Leevers P.

5th ESIS TC4 Conference on Fracture of Polymers, Composites and Adhesives, 7 - 11 September 2008

LVII. Plane stress rapid fracture resistance of pipe grade PE Estimation from tensile drawing data ÖZBEK SARICA P., Leevers P.

ANTEC Conference Proceedings, 6 - 10 May 2007

Supported Projects

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., 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

Sarıyar Akbulut B., Özbek Sarıca 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 Sarıca P., Sarıyar 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 Sarıca P., TUBITAK Project, Development of a web based tool for protein network investigation, 2019 - 2020 Özbek Sarıca P., Project Supported by Higher Education Institutions, Computational Investigation of Peptide Binding Affinity and Complex Stability of Major Histocompatibility Complex (MHC), 2018 - 2020

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

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

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

Özbek Sarıca 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

Metrics

Publication: 96 Citation (WoS): 326 Citation (Scopus): 355 H-Index (WoS): 8 H-Index (Scopus): 9

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
5th International BAU Drug Design Congress, Working Group, İstanbul, Turkey, 2017
International Symposium on Chemistry via Computation Applications on Molecular Nanoscience, 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-BIDEB 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