

Prof. BERNA SARIYAR AKBULUT

Personal Information

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Education Information

Postgraduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1995 - 1997

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1991 - 1995

Biography

Dr. Berna Sariyar Akbulut was born in Istanbul in 1973. After completing her undergraduate study at Boğaziçi University Chemical Engineering Department in 1995, she continued her graduate studies in the same department. She has gained her master's degree in 1997 and her PhD degree in 2003. In 2003, she pursued her post-doc study at Humboldt University in Berlin with a TUBITAK grant. In the same year, Akbulut joined the Marmara University Faculty of Engineering as an Assistant Professor and received the title of associate professor in 2011 and professor in 2016.

A large number of graduate theses have been completed under her supervision on protein engineering, metabolic engineering and understanding of antimicrobial mechanisms.

Foreign Languages

English, C1 Advanced

German, A2 Elementary

Dissertations

Doctorate, Experimental and theoretical studies of protein translocation by the sec pathway, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2003

Postgraduate, Cloning of thermostable glucose isomerase of thermus thermophilus in escherichia coli, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1997

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, Bioengineering, 2003 - Continues

Courses

Biochemistry for Bioengineers I, Undergraduate, 2019 - 2020

Metabolic engineering, Doctorate, 2019 - 2020

Biochemistry for bioengineers II, Undergraduate, 2018 - 2019

Protein interactions, Postgraduate, 2018 - 2019

Advising Theses

Sariyar Akbulut B., Çoklu İlaç Dirençliliği Sağlayan Dışa Atım Pompalarının İnhibisyonları Üzerine Hesapsal Çalışma, Postgraduate, D.ŞENTÜRK(Student), 2019

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

Sariyar Akbulut B., SAYAR N. A., Biotransformation studies with *Curvularia lunata*, Postgraduate, D.YILMAZ(Student), 2019

SARIYAR AKBULUT B., Evaluation of thymol and carvacrol as efflux pumps inhibitors in *Staphylococcus aureus*, Postgraduate, C.Selin(Student), 2019

Sariyar Akbulut B., Investigation of aporphine alkaloids for their antimicrobial activities, Doctorate, F.GİZEM(Student), 2018

Sariyar Akbulut B., Understanding alkaliphilic adaptation of *Bacillus marmarensis* sp. nov. using omic tools, Postgraduate, F.ECE(Student), 2017

SARIYAR AKBULUT B., Bacterial uptake of antimicrobial peptides, Postgraduate, D.IRVALI(Student), 2016

SARIYAR AKBULUT B., Drug design against antimicrobial resistance, Postgraduate, K.BETÜL(Student), 2016

Sariyar Akbulut B., MERTOĞLU B., Transcriptional changes in *Escherichia coli* upon treatment with (-)-roemerine, Postgraduate, D.AYYILDIZ(Student), 2016

Sariyar Akbulut B., Understanding the response of bacteria to plant origin antimicrobial alkaloid (-)-roemerine using biosystem engineering tools, Doctorate, N.BÜDEYRİ(Student), 2015

Sariyar Akbulut B., Investigation of bioprocess operational parameters for phenol removal from wastewater discharges by *Halomonas* sp. AAD12, Postgraduate, B.AYAN(Student), 2013

Sariyar Akbulut B., SAYAR N. A., Effect of temperature on osmolyte regulation strategy using engineering tools, Postgraduate, H.MANGAOĞLU(Student), 2013

Sariyar Akbulut B., Evaluation of the antimicrobial activity of berberine, Postgraduate, K.KARAOSMANOĞLU(Student), 2012

SARIYAR AKBULUT B., Understanding the membrane penetration of antimicrobial peptides, Postgraduate, B.ALAYBEYOĞLU(Student), 2012

SARIYAR AKBULUT B., Effect of simultaneous beta-lactamase inhibitor protein expression on cellular beta-lactamase activity, Postgraduate, K.SİMAY(Student), 2012

SARIYAR AKBULUT B., Beta-lactamase ligand recognition, Postgraduate, D.MENEKŞEDAĞ(Student), 2012

Sariyar Akbulut B., Investigation of penetration of inhibitor into cells and their interactions with intracellular proteins/metabolites, Postgraduate, G.BULDUM(Student), 2011

SARIYAR AKBULUT B., Beta-lactamase binding to BLIP and BLIP based peptides, Postgraduate, A.DOĞAN(Student), 2011

Sariyar Akbulut B., Microbial adaptation to stress conditions using an integrative modelling and experimental approach, Postgraduate, G.YILAN(Student), 2011

SARIYAR AKBULUT B., Investigation of in-vivo inhibition of beta-lactamase by beta-lactamase inhibitor protein, Postgraduate, A.EZGİ(Student), 2010

SARIYAR AKBULUT B., TEM-1 β -lactamase activity in the presence of BLIP in cellular environments, Postgraduate, C.CEYLAN(Student), 2010

Sariyar Akbulut B., Investigation of peptide inhibitor binding to β -lactamase, Postgraduate, N.BÜDEYRİ(Student), 2009

SARIYAR AKBULUT B., Akbulut B., Investigation of peptide inhibitor binding to β -Lactamase, Postgraduate, N.Büdeyri(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of a novel process towards an L-malate biorefinery using methanol as feedstock**
Bastem G. M., SAYAR N. A., Brito L. F., Brautaset T., Virant D., SARIYAR AKBULUT B.
Chemical Engineering Research and Design, vol.212, pp.158-167, 2024 (SCI-Expanded)
- II. **Utilization of orange peel waste for sustainable amino acid production by *Corynebacterium glutamicum***
Junker N., SARIYAR AKBULUT B., Wendisch V. F.
Frontiers in Bioengineering and Biotechnology, vol.12, 2024 (SCI-Expanded)
- III. **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)
- IV. **Antivirulence therapy: type IV pilus as a druggable target for bacterial infections**
Basaran E., Avci F. G., Ozcan A., KULA C., Ben Ali Hassine S., Keskin O., ÖZBEK SARICA P., SARIYAR AKBULUT B.
Medicinal Chemistry Research, 2024 (SCI-Expanded)
- V. **A two-step purification platform for efficient removal of Fab-related impurities: A case study for Ranibizumab**
Tatli O., Oz Y., Dingiloglu B., Yalcinkaya D., Basturk E., Korkmaz M., Akbulut L., Hatipoglu D., Kirmacoglu C., Akgun B., et al.
Heliyon, vol.9, no.11, 2023 (SCI-Expanded)
- VI. **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)
- VII. **Metabolic engineering of *Corynebacterium glutamicum* for L-tyrosine production from glucose and xylose**
Kurpejović E., Burgardt A., Bastem G. M., Junker N., Wendisch V. F., SARIYAR AKBULUT B.
Journal of Biotechnology, vol.363, pp.8-16, 2023 (SCI-Expanded)
- VIII. **Valorization of hazelnut husk as a carbon source for L-DOPA production with *Corynebacterium glutamicum***
Pakalın B., Kurpejović E., Bastem G. M., SAYAR N. A., Wendisch V. F., Akbulut B.
Biochemical Engineering Journal, vol.190, 2023 (SCI-Expanded)
- IX. **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.
PATHOGENS AND GLOBAL HEALTH, vol.117, no.3, pp.219-234, 2023 (SCI-Expanded)
- X. **Can DapC be the missing aminotransferase in the arogenate route of L-tyrosine biosynthesis in *Corynebacterium glutamicum*?**
ALTINIŞIK KAYA F. E., Kurpejovic E., Burgardt A., Wendisch V. F., SARIYAR AKBULUT B.
FEBS OPEN BIO, vol.12, pp.180-181, 2022 (SCI-Expanded)
- XI. **Curcumin Displays Enhanced Solubility and Antibacterial Activities When Complexed with the Cell Penetrating Peptide pVEC**
Koleoglu E., Acar T., DERMAN S., SARIYAR AKBULUT B.
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.28, no.4, 2022 (SCI-Expanded)
- XII. **Carvacrol Enhances the Antimicrobial Potency of Berberine in *Bacillus subtilis***

Atas B., Aksoy C. S., Avci F. G., SAYAR N. A., Ulgen K., ÖZKIRIMLI ÖLMEZ E., SARIYAR AKBULUT B.
CURRENT MICROBIOLOGY, vol.79, no.5, 2022 (SCI-Expanded)

- XIII. **Tyrosinase-based production of L-DOPA by *Corynebacterium glutamicum***
Kurpejovic E., Wendisch V. F., SARIYAR AKBULUT B.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.105, no.24, pp.9103-9111, 2021 (SCI-Expanded)
- XIV. **Live Cell Imaging of Peptide Uptake Using a Microfluidic Platform**
Yuce M., ÖZKIRIMLI ÖLMEZ E., SARIYAR AKBULUT B., Ulgen K.
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.27, pp.2003-2013, 2021 (SCI-Expanded)
- XV. **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)
- XVI. **Potentiating the activity of berberine for *Staphylococcus aureus* in a combinatorial treatment with thymol**
Aksoy C. S., Avci F. G., Ugurel O. M., Atas B., SAYAR N. A., Akbulut B.
MICROBIAL PATHOGENESIS, vol.149, 2020 (SCI-Expanded)
- XVII. **Repurposing bioactive aporphine alkaloids as efflux pump inhibitors**
Avci F. G., Atas B., Aksoy C. S., Kurpejovic E., Toplan G. G., GÜRER Ç., Guillerminet M., Orelle C., Jault J., Akbulut B.
FITOTERAPIA, vol.139, 2019 (SCI-Expanded)
- XVIII. **Techno-economic analysis of caffeine and catechins production from black tea waste**
SAYAR N. A., DURMAZ ŞAM S., PİNAR O., Serper D., SARIYAR AKBULUT B., KAZAN D., SAYAR A. A.
Food And Bioproducts Processing, vol.118, pp.1-12, 2019 (SCI-Expanded)
- XIX. **A method for the quantitative determination of glycerophospholipid regioisomers by UPLC-ESI-MS/MS**
Wozny K., Lehmann W. D., Wozny M., SARIYAR AKBULUT B., Bruegger B.
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.411, no.4, pp.915-924, 2019 (SCI-Expanded)
- XX. **What Are the Multi-Omics Mechanisms for Adaptation by Microorganisms to High Alkalinity? A Transcriptomic and Proteomic Study of a *Bacillus* Strain with Industrial Potential**
ALTINIŞIK KAYA F. E., Avci F. G., SAYAR N. A., KAZAN D., SAYAR A. A., SARIYAR AKBULUT B.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.22, no.11, pp.717-732, 2018 (SCI-Expanded)
- XXI. **Retro-techno-economic evaluation of acetic acid production using cotton stalk as feedstock**
SAYAR N. A., KAZAN D., PİNAR O., SARIYAR AKBULUT B., SAYAR A. A.
JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, vol.20, no.4, pp.2077-2088, 2018 (SCI-Expanded)
- XXII. **Targeting a hidden site on class A beta-lactamases**
Avci F. G., ALTINIŞIK KAYA F. E., Karacan I., Karagoz D. S., Ersahin S., Eren A., SAYAR N. A., Ulu D. V., ÖZKIRIMLI ÖLMEZ E., SARIYAR AKBULUT B.
JOURNAL OF MOLECULAR GRAPHICS & MODELLING, vol.84, pp.125-133, 2018 (SCI-Expanded)
- XXIII. **Membrane Active Peptides and Their Biophysical Characterization**
Avci F. G., SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E.
BIOMOLECULES, vol.8, no.3, 2018 (SCI-Expanded)
- XXIV. **pVEC hydrophobic N-terminus is critical for antibacterial activity**
ALAYBEYOĞLU B., SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E.
Journal Of Peptide Science, vol.24, pp.3083, 2018 (SCI-Expanded)
- XXV. **An OMIC approach to elaborate the antibacterial mechanisms of different alkaloids**
Avci F. G., SAYAR N. A., Akbulut B.
PHYTOCHEMISTRY, vol.149, pp.123-131, 2018 (SCI-Expanded)
- XXVI. **Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in *Escherichia coli***
Ayyildiz D., ARĞA K. Y., Avci F. G., ALTINIŞIK KAYA F. E., Gurer C., Toplan G. G., KAZAN D., Wozny K., Bruegger B., MERTOĞLU B., et al.
CURRENT GENETICS, vol.63, no.4, pp.709-722, 2017 (SCI-Expanded)

- XXVII. **Response of Escherichia coli to Prolonged Berberine Exposure**
Gokgoz N. B., Avci F. G., Yoneten K. K., Alaybeyoglu B., ÖZKIRIMLI ÖLMEZ E., SAYAR N. A., KAZAN D., SARIYAR AKBULUT B.
MICROBIAL DRUG RESISTANCE, vol.23, no.5, pp.531-544, 2017 (SCI-Expanded)
- XXVIII. **The effect of a beta-lactamase inhibitor peptide on bacterial membrane structure and integrity: a comparative study**
Alaybeyoglu B., ULUOCAK B. B., SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E.
JOURNAL OF PEPTIDE SCIENCE, vol.23, no.5, pp.374-383, 2017 (SCI-Expanded)
- XXIX. **An evolutionarily conserved allosteric site modulates beta-lactamase activity**
Avci F. G., ALTINIŞIK KAYA F. E., Vardar Ulu D., ÖZKIRIMLI ÖLMEZ E., SARIYAR AKBULUT B.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, pp.33-40, 2016 (SCI-Expanded)
- XXX. **Insights into membrane translocation of the cell-penetrating peptide pVEC from molecular dynamics calculations**
Alaybeyoglu B., SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.34, no.11, pp.2387-2398, 2016 (SCI-Expanded)
- XXXI. **Proteomics Evidence for the Activity of the Putative Antibacterial Plant Alkaloid (-)-Roemerine: Mainstreaming Omics-Guided Drug Discovery**
Gokgoz N. B., SARIYAR AKBULUT B.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.19, no.8, pp.478-489, 2015 (SCI-Expanded)
- XXXII. **A novel chimeric peptide with antimicrobial activity**
Alaybeyoglu B., SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E.
JOURNAL OF PEPTIDE SCIENCE, vol.21, no.4, pp.294-301, 2015 (SCI-Expanded)
- XXXIII. **Investigation of the in vivo interaction between beta-lactamase and its inhibitor protein**
Budeyri Gokgoz N., Yalaz S., Avci N. G., BULDUM G., ÖZKIRIMLI ÖLMEZ E., SARIYAR AKBULUT B.
TURKISH JOURNAL OF BIOLOGY, vol.39, no.3, pp.485-492, 2015 (SCI-Expanded)
- XXXIV. **The importance of a conserved residue of the H10 helix in beta-lactamase**
Avci F. G., ÖZKIRIMLI ÖLMEZ E., SARIYAR AKBULUT B.
NEW BIOTECHNOLOGY, vol.31, 2014 (SCI-Expanded)
- XXXV. **Assessment of Berberine as a Multi-target Antimicrobial: A Multi-omics Study for Drug Discovery and Repositioning**
Karaosmanoglu K., SAYAR N. A., KURNAZ I., SARIYAR AKBULUT B.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.18, no.1, pp.42-53, 2014 (SCI-Expanded)
- XXXVI. **Osmoadaptation of a moderately halophilic microorganisms under cold stress**
Ayan B., SARIYAR AKBULUT B., Poli A., Ozturk U., Ozturk N. C., Denizci A. A., Utkan G., KAZAN D.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXXVII. **Adaptive changes in the lipid distribution of a moderately halophilic microorganism under salt stress**
Ozturk H. U., Ozturk N. C., Poli A., Nicolaus B., Ayan B., Denizci A. A., Utkan G., SARIYAR AKBULUT B., KAZAN D.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXXVIII. **Purification and characterization of a thermo and acid-stable endo-1,3-1,4-beta-glucanase from Bacillus amyliquefaciens YMNg47**
DUMAN Y., KORKMAZ GÜVENMEZ H., ARIKAN B., DİNÇER S., Denizci A. A., SARIYAR AKBULUT B., KAZAN D., Erarslan A.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXXIX. **Production of industrial enzymes for feed industry**
Sogut M. S., Ozturk N. C., Ozturk H. U., Pinar O., Ipek F. M., Cayir E., Gokce A., Karasu D., Ozturk D. C., Ozturk Y., et al.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XL. **Interplay of adaptive capabilities of Halomonas sp AAD12 under salt stress**
Ceylan S., Yılan G., Sariyar Akbulut B., Poli A., Kazan D.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.114, pp.45-52, 2012 (SCI-Expanded)
- XLI. **Thermostable alpha-amylase from moderately halophilic Halomonas sp AAD21**

- Uzyol K. S., SARIYAR AKBULUT B., Denizci A. A., KAZAN D.
TURKISH JOURNAL OF BIOLOGY, vol.36, no.3, pp.327-338, 2012 (SCI-Expanded)
- XLII. **Proteomic insight into phenolic adaptation of a moderately halophilic Halomonas sp strain AAD12**
Ceylan S., SARIYAR AKBULUT B., Denizci A. A., Kazan D.
CANADIAN JOURNAL OF MICROBIOLOGY, vol.57, no.4, pp.295-302, 2011 (SCI-Expanded)
- XLIII. **Proteomic response of Escherichia coli to the alkaloid extract of Papaver polychaetum**
Ozbalci C., Ünsal C., KAZAN D., SARIYAR AKBULUT B.
ANNALS OF MICROBIOLOGY, vol.60, no.4, pp.709-717, 2010 (SCI-Expanded)
- XLIV. **Cellular distribution of activity for three enzymes with maltose binding protein as fusion partner and the structural implications**
Utkur O. F., SARIYAR AKBULUT B., Hortacsu A.
TURKISH JOURNAL OF CHEMISTRY, vol.34, no.1, pp.1-13, 2010 (SCI-Expanded)
- XLV. **Dynamic Analysis of Beta-lactamase Ligand Recognition**
Kanlikilicer P., Budeyri N., SARIYAR AKBULUT B., Hortacsu A., ÖZKIRIMLI ÖLMEZ E.
BIOPHYSICAL JOURNAL, vol.96, no.3, 2009 (SCI-Expanded)
- XLVI. **Discriminant Function Analysis Based on Principal Components for Rapid Discrimination of Metabolic Capabilities of New Isolates**
SARIYAR AKBULUT B.
Chem. Biochem. Eng. Q, vol.24, pp.119-127, 2009 (SCI-Expanded)
- XLVII. **Rapid differentiation of new isolates with MALDI TOF mass spectrometry via discriminant function analysis based on principal components**
SARIYAR AKBULUT B.
Korean J. Chem. Eng., vol.26, pp.1645-1651, 2009 (SCI-Expanded)
- XLVIII. **Preliminary phenotypic characterization of newly isolated halophilic microorganisms by footprinting: a rapid metabolome analysis**
Sariyar-Akbulut B., Salman-Dilgimen A., Ceylan S., Perk S., Denizci A. A., Kazan D.
ARCHIVES OF MICROBIOLOGY, vol.189, no.1, pp.19-26, 2008 (SCI-Expanded)
- XLIX. **Monte Carlo sampling and principal component analysis of flux distributions yield topological and modular information on metabolic networks**
Sariyar B., Perk S., Akman U., Hortacsu A.
JOURNAL OF THEORETICAL BIOLOGY, vol.242, no.2, pp.389-400, 2006 (SCI-Expanded)
- L. **Metabolic flux analysis of recombinant protein overproduction in Escherichia coli**
Özkan P., SARIYAR AKBULUT B., Ütkür Ö., AKMAN Ş. U., Hortacsu A.
Biochemical Engineering Journal, vol.22, pp.167-195, 2005 (SCI-Expanded)
- LI. **Expression and translocation of glucose isomerase as a fusion protein in E coli**
SARIYAR AKBULUT B., Özkan P., Kırdar B., Hortacsu A.
Enzyme And Microbial Technology, vol.35, pp.105-112, 2004 (SCI-Expanded)
- LII. **Mathematical modelling of Sec pathway mechanism in Escherichia coli a case study for periplasmic translocation of maltose binding protein glucose isomerase fusion protein**
SARIYAR AKBULUT B., Hortacsu A.
Chemical Engineering Science, vol.59, pp.1027-1038, 2004 (SCI-Expanded)
- LIII. **Metabolic Engineering through Cofactor Manipulation and Its Effects on Metabolic Flux Redistribution in Escherichia coli**
Ka Y. S., George N B., Susana J B., Ravi V V., YeaTyng Y., Horton E., Fred B R., SARIYAR AKBULUT B., Kimathi B.
Metabolic Engineering, vol.4, pp.182-192, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Curvularia lunata: A fungus for possible berberine transformation**
Yılmaz D., AVCI F. G., SARIYAR AKBULUT B.

International Journal of Secondary Metabolite, vol.9, no.1, pp.66-73, 2022 (Scopus)

II. Moderately Halophilic Bacterium Halomonas. sp. AAD12: A promising candidate as a Hydroxyectoine Producer

Öztürk H. Ü., Saryyar Akbulut B., Ayan B., Poli A., Denizci A. A., Utkan G., Nicolaus B., Kazan D.

J Microb Biochem Technol, vol.7, pp.262-268, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

I. Antibacterial and antifungal activities of isoquinoline alkaloids of the Papaveraceae and Fumariaceae families and their implications in structure–activity relationships

AVCI F. G., ATAŞ B., GÜLSOY TOPLAN G., GURER Ç., SARIYAR AKBULUT B.

in: Studies in Natural Products Chemistry, Atta-ur-Rahman, Editor, Elsevier, pp.87-118, 2021

II. Antibiyotik Üretimi

Avcı F. G., Sayar N. A., Saryyar Akbulut B.

in: Fermente Ürünler Teknolojisi ve Mikrobiyolojisi, Erkmn,Osman; Erten,Hüseyin,Sağlam,Hidayet, Editor, Nobel Akademik Yayıncılık, Ankara, pp.721-738, 2020

III. Protein İzolasyonu ve Analizi

Saryyar Akbulut B., Kazan D.

in: Moleküler Üroloji, Türkeriü L.N.,Ozer,Aç,Narter,F, Editor, Pelin Offset, Ankara, pp.583-597, 2012

IV. Protein-Peptide Interactions Revolutionize Drug Development

Saryyar Akbulut B., Özkırmılı Ölmez E.

in: Binding Protein, Ktob Abdelmohsen, Editor, InTech, Rijeka, pp.49-72, 2012

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. Understanding the metabolic reprogramming behind alkaliphilic adaptation in Bacillus marmarensis through a multi-omics data integration strategy

Altınışik F. E., Arğa K. Y., Kazan D., Saryyar Akbulut B.

44th FEBS Congress: From molecules to living systems, Krakow, Poland, 6 - 11 July 2019

III. 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

IV. 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

V. MOTILITY STUDIES BY USING MICROFLUIDIC TECHNOLOGY

YÜCE M., ÜLGEN Ş. K., ÖZKIRIMLI ÖLMEZ E., SARIYAR AKBULUT B.

5TH BAU DRUG DESIGN CONGRESS, İstanbul, Turkey, 19 - 21 October 2017

VI. Biotransformation of Different Molecules by Curvularia Lunata

YILMAZ D., SAYAR A. A., SARIYAR AKBULUT B.

BioMicroWorld 2017 : VII International Conference on Environmental, Industrial and Applied Microbiology, Madrid, Spain, 18 - 20 October 2017, vol.1, pp.1

VII. Evaluation of active natural products as bacterial efflux pump inhibitors

SARIYAR AKBULUT B., ATAŞ B., AKSOY S., AVCI F. G., SAYAR A. A.

EpiChemBio (CM1406) and MuTaLig COST (CA15135) actions joint meeting, Porto, Portugal, 22 - 24 September 2017

- VIII. **Optimisation of extracellular lipase production by *Cryptococcus diffluens* D44.**
KOCA A., DURMAZ ŞAM S., SARIYAR AKBULUT B.
7th Congress of European Microbiologists (FEMS 2017), Valensiya, Spain, 9 - 13 July 2017
- IX. **Optimisation of Extracellular Lipase Production by *Cryptococcus diffluens* D44**
KOCA A., Durmaz Sam S., SARIYAR AKBULUT B.
FEMS Kongresi, 9 - 13 July 2017
- X. **Adaptation of *B. Marmarensis* Sp Nov To Extreme Alkaline Conditions**
Altinisik F. E., KAZAN D., SARIYAR AKBULUT B.
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