

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

Sarıyar Akbulut B., Çoklu İlaç Dirençliliği Sağlayan Dışa Atım Pompalarının İnhibisyonları Üzerine Hesapsal Çalışma, Postgraduate, D.ŞENTÜRK(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., ÖZBEK SARICA P., Computational study on the inhibition multidrug resistance efflux pumps, Postgraduate, D.Şentürk(Student), 2019

Sarıyar Akbulut B., Biotransformation studies with *Curvularia lunata*, Postgraduate, D.YILMAZ(Student), 2019

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

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

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

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

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

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

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

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

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

Sarıyar 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

Sarıyar 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

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

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

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

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **Membrane Active Peptides and Their Biophysical Characterization**
Avci F. G., SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E.
BIOMOLECULES, vol.8, no.3, 2018 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI Expanded)

- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **Purification and characterization of a thermo and acid-stable endo-1,3-1,4-beta-glucanase from Bacillus amyliquesfaciens 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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)

- XXIX. **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 (Journal Indexed in SCI)
- XXX. **Interplay of adaptive capabilities of Halomonas sp AAD12 under salt stress**
Ceylan S., Yilan G., Sariyar Akbulut B., Poli A., Kazan D.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.114, pp.45-52, 2012 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI Expanded)
- XXXVII. **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 (Journal Indexed in SCI Expanded)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI Expanded)
- XLI. **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 (Journal Indexed in SCI Expanded)
- XLII. **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 (Journal Indexed in SCI Expanded)

XLIII. 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 (Journal Indexed in 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 (Other Refereed National Journals)

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

Öztürk H. Ü. , Saryar 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 (Refereed Journals of Other Institutions)

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. , Saryar Akbulut B.

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

III. Protein İzolasyonu ve Analizi

Saryar Akbulut B., Kazan D.

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

IV. Protein-Peptide Interactions Revolutionize Drug Development

Saryar 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

Sentürk 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., Saryar 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.
7th Congress of European Microbiologists (FEMS), 9 - 13 July 2017
- XI. **Roemerine: A New Multidrug Resistance Pump Inhibitor?**
AVCI F. G., Guillerminet M., Orelle C., Jault J., SARIYAR AKBULUT B.
FEMS Kongresi, Valencia, Spain, 9 - 13 July 2017
- XII. **Antimicrobial activity of an inhibitor peptide and its effects on bacteria membrane structure and integrity**
ALAYBEYOĞLU B., GEDİK ULUOCAK B., SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E.
International BAU Drug Design Congress, 13 - 15 October 2016
- XIII. **Understanding alkaliphilic adaptation of *B marmarensis sp nov***
ALTINIŞIK F. E., AVCI F. G., DENİZCİ A. A., KAZAN D., SARIYAR AKBULUT B.
FEBS 2016, 3 - 08 September 2016, vol.283, pp.127-427
- XIV. **Evaluation of roemerine as a multidrug resistance pump inhibitor**
AVCI F. G., VELİOĞLU Ç., REÇBER E., UNSAL Ç., GÜLSOY TOPLAN G., SARIYAR AKBULUT B.
THE 41TH FEBS, 3 - 08 September 2016
- XV. **Understanding alkaliphilic adaptation of *B marmarensis sp nov***
ALTINIŞIK F. E., AVCI F. G., DENİZCİ A. A., KAZAN D., SARIYAR AKBULUT B.
THE 41TH FEBS, 3 - 08 September 2016
- XVI. **Roemerine limits carbohydrate uptake which leads to alternative nutrients such as acetyl coA sources**
AYYILDIZ D., AVCI F. G., ARĞA K. Y., SARIYAR AKBULUT B.
FEBS 2016 Congress, 3 - 08 September 2016
- XVII. **Evaluation of plant secondary metabolites as promising antimicrobial agents**
SARIYAR AKBULUT B.
X Annual Congress of the European Proteomics Association, 22 - 25 June 2016
- XVIII. **Roemerine limits carbohydrate uptake which leads to alternative nutrients as acetyl CoA sources**
AYYILDIZ D., AVCI F. G., ARĞA K. Y., SARIYAR AKBULUT B.
THE 41TH FEBS, 3 September - 08 June 2016
- XIX. **Investigation of the proteom profile of alkaliphilic *B marmarensis sp nov* under different pH conditions**
ALTINIŞIK F. E., AVCI F. G., DENİZCİ A. A., KAZAN D., SARIYAR AKBULUT B.

BIOINTERACTOMICS, 17 - 21 May 2016

- XX. **Investigation of proteome profile of falkaliphilic *B marmarensis* sp nov under different pH conditions**
ALTINIŞIK F. E. , AVCI F. G. , DENİZCİ A. A. , KAZAN D., SARIYAR AKBULUT B.
FEBS BIOINTERACTOMICS, 17 - 20 May 2016
- XXI. **Evaluation of the effect of plant derived natural products on *Bacillus subtilis* 168 proteome**
AVCI F. G. , SARIYAR AKBULUT B.
BIOINTERACTOMICS, 17 - 20 May 2016
- XXII. **The plant derived alkaloid roemerin is involved in the modulation of motility in *E coli***
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