

Fatma Ece ALTINIŞIK KAYA

Specialist, MSc

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- 2014–2017 **M.Sc.**, Marmara University, Bioengineering Department, *Istanbul, Turkey.*
Research Topic: Understanding Alkaliphilic Adaptation of *Bacillus marmarensis* sp. nov. Using OMIC Tools
Supervisor: Prof. Dr. Berna SARIYAR AKBULUT
- 2010–2014 **B.Sc.**, Marmara University, Bioengineering Department, *Istanbul, Turkey.*
Research Topic: Enhancing the Effect of a Drug Candidate Using Metabolic Pathway Information
Supervisor: Prof. Dr. Berna SARIYAR AKBULUT
- 2006–2010 **High School**, Fatma-Emin KUTVAR Anatolian High School, *Balikesir, Turkey.*

Experience

- 2016–present **Specialist**, Marmara University, *Istanbul, Turkey.*
Faculty of Engineering, Bioengineering Department
- June–Aug. **Intern**, Technical University of Denmark, *Copenhagen, Denmark.*
2013 Center for Biological Sequence Analysis
- June–Aug. **Intern**, ONKİM Stem Cell Technologies, *Istanbul, Turkey.*
2012 R&D Laboratories
- June–Aug. **Intern**, Yeditepe University, *Istanbul, Turkey.*
2011 Department of Tissue Engineering

Publications and Presentations

- Paper Ayyildiz D, Arga KY, Avci FG, **Altinisik FE**, Gurer C, Gulsoy Toplan G, Kazan D, Wozny K, Brügger B, Mertoglu B, Sariyar Akbulut B. “Transcriptomic Analysis Displays the Effect of (-)-roemerine on the Motility and Nutrient Uptake in *Escherichia coli*” *Curr Genet*, 24 Dec 2016, 63(4):709-722, doi:10.1007/s00294-016-0673-4.
- Paper Avci FG, **Altinisik FE**, Vardar Ulu G, Ozkirimli Olmez E, Sariyar Akbulut B. “An Evolutionarily Conserved Allosteric Site Modulates Beta-lactamase Activity” *J Enzym Inh mMd Chem*, 28 Jun 2016, 31(sup3):33-40, doi: 10.1080/14756366.2016.1201813.
- Poster **Altinisik FE**, Kazan D, Sariyar Akbulut B, “Adaptation of *B. marmarensis* sp nov to extreme alkaline conditions”, 7th Congress of European Microbiologists (FEMS), 9-13 July 2017, Valencia, Spain.

- Poster **Altinisik FE**, Avci FG, Sariyar Akbulut B, Ozkirimli Olmez E, Vardar Ulu D, Karacan İ, Senturk D. "Mutations of a conserved tryptophan residue of the TEM-1 β -lactamase" 29th Annual Symposium of the Protein Society, 22-25 July 2015, Barcelona- Spain.
- Poster Alaybeyoglu B, **Altinisik FE**, Irali D, Sariyar Akbulut B, Ozkirimli E. "Biophysical Characterization and Celullar Transport of Inhibitor/Antimicrobial Peptides" From Cell-Penetrating Peptides to Nanoparticles for Cellular Delivery-CPP, 1-3 July, 2015, Paris-France.
- Poster Alaybeyoglu B, **Altinisik FE**, Irali D, Sariyar Akbulut B, Ozkirimli E. "A Novel Approach to Deliver Peptides that Target Intracellular Enzymes" 3rd International BAU Drug Design Congress. 1-3 Oct 2015, Istanbul-Turkey.
- Poster **Altinisik FE**, Avci FG, Sariyar Akbulut B, Denizci AA, Kazan D. "Investigation of proteome profile of alkaliphilic B. marmarensis sp nov under different pH conditions" FEBS-IUBMB Workshop on Biointeractomics: from bimolecular interactions to networks. 17-20 May 2016, Sevilla-Spain.
- Poster **Altinisik FE**, Avci FG, Sariyar Akbulut B, Denizci AA, Kazan D. "Understanding alkaliphilic adaptaion of B.marmarensis sp. nov." 41st Federation of European Biochemical Societies (FEBS) Congress, 2016, Kuşadası-İzmir-Turkey.

Languages

English Advanced
 Turkish Native

YÖKDİL:76,25 (November, 2017)

Skills

Computing MATLAB, MS Office
 Equipment MALDI, GC, HPLC
 Assisted Laboratories

- BIOE 201: Microbiology for Bioengineers
- BIOE 202: Molecular Biology and Genetics
- CHEM 213: Biochemistry for Bioengineers I
- CHEM 214: Biochemistry for Bioengineers II
- BIOE 311: Bioengineering Laboratory I
- BIOE 312: Bioengineering Laboratory II

 Research Cell Culturing, Molecular Biology Technologies, Recombinant Enzyme Production and Purification, Alkaliphilic Organisms and Adaptation Strategies, Metabolic Pathway Engineering, OMIC Technologies
 Hobby Movies, Novels, Fitness, Swimming