

## Lect. FATMA ECE ALTINIŞIK KAYA

### Personal Information

**Email:** ece.altinisik@marmara.edu.tr

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### Biography

In 2014, I started my master education in the Department of Bioengineering at Marmara University. In February 2016, I started to work as a teaching assistant in Marmara University Bioengineering Department. In 2017, I completed my master's degree with the thesis titled "Understanding alkaliphilic adaptation of *Bacillus marmarensis* sp. nov. using omic tools". In 2018, I started my PhD studies at Marmara University, Department of Bioengineering, and in March 2019, I passed the PhD qualification exam and started my thesis studies.

### Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Bioengineering (Eng), Turkey 2018 - Continues

Post Graduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Biyomühendislik (YI) (Tezli), Turkey 2014 - 2017

Under Graduate, Marmara University, Faculty of Engineering, Bioengineering, Turkey 2010 - 2014

### Foreign Languages

English, C1 Advanced

### Dissertations

Post Graduate, Understanding alkaliphilic adaptation of *B. marmarensis* sp. nov. using proteomic tools, Marmara University, Fen Bilimleri Enstitüsü, Biyomühendislik (İngilizce) Anabilim Dalı, 2017

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Lecturer, Marmara University, Faculty of Engineering, Bioengineering, 2016 - Continues

### 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., Altınışık 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. **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, pp.717-732, 2018 (Journal Indexed in SCI)
- III. **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)
- IV. **Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in Escherichia coli**  
Ayyıldız 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, pp.709-722, 2017 (Journal Indexed in SCI)
- V. **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)

## 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**  
Altınışık F. E. , Arğa K. Y. , Kazan D., Sariyar Akbulut B.  
44th FEBS Congress: From molecules to living systems, Krakow, Poland, 6 - 11 July 2019
- III. **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
- IV. **Investigation of proteome 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.  
FEBS BIOINTERACTOMICS, 17 - 20 May 2016
- V. **Mutations of a conserved tryptophan residue of the TEM-1 beta-lactamase**  
ALTINIŞIK KAYA F. E. , Avci F. G. , SARIYAR AKBULUT B., ÖZKIRIMLI ÖLMEZ E., Ulu D. V. , Karacan I., Senturk D.  
29th Annual Symposium of the Protein-Society, Barcelona, Spain, 22 - 25 July 2015, vol.24, pp.175

## Citations

Total Citations (WOS):10

h-index (WOS):2