

ELİF ESVAP

Ph.D. Candidate – Research and Teaching Assistant

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EDUCATION

- Aug 2018 - Present** Ph.D. Candidate, *Department of Chemical Engineering, Boğaziçi University*
Thesis Title: 'Brain-Gut-Microbiota Network for Inferring the Mechanisms Behind Autism Spectrum Disorder'
- Sep 2016 - Aug 2018** M.Sc., *Department of Chemical Engineering, Boğaziçi University*
Thesis Title: 'Identification of Drug Targets Towards Prostate Cancer'
- Sep 2012 - Jun 2016** B.Sc., *Department of Chemical Engineering, Boğaziçi University*
Project Title: 'Investigation of Penam and Cephem Type β -Lactam Antibiotics'

ACADEMIC AND PROFESSIONAL EXPERIENCE

- Dec 2016 - Present** Research and Teaching Assistant, *Department of Chemical Engineering, Boğaziçi University*
Courses Assisted
ChE 203 Physicochemical Engineering Laboratory - Coordinator
ChE 302 Chemical Engineering Laboratory I - Coordinator
ChE 334 Mass Transfer Operations
ChE 401 Chemical Engineering & Biotechnology Laboratory - Coordinator
ChE 433 Design of Chemical Processing Units
ChE 462 Chemical Plant Design and Economics
ChE 463 Bioprocess Design
ChE 529 Metabolic Engineering
ChE 620 Current Topics in Biological Systems Engineering
- Jul 2015 - Aug 2015** Production Engineering Intern, *Mercedes-Benz Türk A.Ş.*
- Aug 2014 - Sep 2014** Research & Development Intern, *Pulcra Chemicals*
- Jul 2014** Quality Control Intern, *Pharmavision*

RESEARCH INTERESTS

Metabolic Engineering, Systems Biology, Bioinformatics, 3D Bioprinting

PUBLICATIONS

Elif Esvap, Kutlu O. Ülgen, "Advances in Genome-Scale Metabolic Modeling toward Microbial Community Analysis of the Human Microbiome", *ACS Synthetic Biology*, Vol. 10, pg. 2121-2137, 2021

Z. Begüm Yağcı, Elif Esvap, Hatice Asuman Özkara, Kutlu O. Ülgen, Elif Özkırmılı Ölmez, "Inflammatory response and its relation to sphingolipid metabolism proteins: Chaperones as potential indirect anti-inflammatory agents", *Advances in Protein Chemistry and Structural Biology*, Vol. 114, pg. 153-219, 2019

CONFERENCES

Elif Esvap, Elif Özkırmılı Ölmez, Kutlu O. Ülgen, "Prostate Cancer: Network Analysis of Molecular Pathways and Identification of Novel Biomarkers and Drug Targets", Poster Presentation, 19th International Conference on Systems Biology, Lyon, France, October 2018

Elif Esvap, Z. Begüm Yağcı, Elif Özkırmılı Ölmez, Kutlu O. Ülgen, "Identification of Mutual and Specific Ligands Related to the Proteins in Sphingolipid and Inflammation Pathways Using a Data Mining and Network Modeling Approach", Poster Presentation, The 15th Gordon Research Conference on Glycolipid and Sphingolipid Biology, Galveston-Texas, U.S.A., February 2018

Elif Esvap, Elif Özkırmılı Ölmez, Kutlu O. Ülgen, "Understanding the Relationship among Immune System – Prostate Cancer – Sphingolipid Metabolism by Network Analysis", Poster Presentation, Sphingolipid Club, Trabia, Italy, September 2017