MÜGE KASIM

Ph.D. Candidate
Thesis Supervisor: Prof. Kutlu Ülgen
Theis Co-supervisor: Prof. Tuna Tuğcu

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Department of Chemical Engineering, KB440
Boğaziçi University, Istanbul, TURKEY

EDUCATION

2019 – Ph.D. in Chemical Engineering, Boğaziçi University
2017 – 2019 M.Sc. in Chemical Engineering, Boğaziçi University, Selçuk Halaç Thesis Reward
2011 – 2017 B.Sc. in Chemical Engineering, Boğaziçi University, Honor Degree

ACADEMIC & PROFESSIONAL EXPERIENCE

2020 – Teaching and Research Assistant
Chemical Engineering Department, Boğaziçi University, Istanbul, TURKEY

Courses Assisted:
ChE 203 Physicochemical Systems Laboratory
ChE 222 Introduction to Biosystems
ChE 302 Chemical Engineering Laboratory I
ChE 321 Chemical Engineering Thermodynamics
ChE 333 Heat Transfer
ChE 342 Reaction Kinetics and Reaction Design
ChE 401 Chemical Engineering Laboratory II

2018 – 2019 Research Assistant, Scientific Research Project
Ulgen Research Group, Biosystems Engineering Laboratory
Chemical Engineering Department, Boğaziçi University, Istanbul, TURKEY

Jul-Dec 2015 R&D Internship at GE Aviation
Department of Material Application Engineering, Kocaeli, TURKEY

Jul-Aug 2014 Production Internship at BRISA
Department of Production, Kocaeli, Turkey

RESEARCH INTERESTS

Lab-on-Chip
Microfluidics, Droplet-based microfluidics
High throughput screening
Live-cell image processing
3D Bioprinting

PUBLICATIONS

- Elif Gencturk, Muge Kasim, Berna Morova, Alper Kiraz, and Kutlu O. Ulgen. "Understanding the Link between Inflammasome and Apoptosis through the Response of THP-1 Cells against Drugs Using Droplet-Based Microfluidics" *ACS Omega,* (awaiting publication)
- Muge Kasim, Elif Gencturk, and Kutlu O. Ulgen. "Real-Time Single-Cell Monitoring of Drug Effects Using Droplet-Based Microfluidic Technology: A Proof-of-Concept Study", *OMICS, A journal of Integrative Biology*, 25(10), 641-651.
- Ege Ertekin, Elif Gencturk, Muge Kasim, and Kutlu O. Ulgen *"*A Drug Repurposing and Protein-Protein Interaction Network Study of Ribosomopathies Using Yeast as a Model System", *OMICS, A journal of Integrative Biology*, Volume 24, 2020

CONFERENCES

- Kasim, M., Gençtürk, E., & Ülgen, K. *"Analysis of the Effects of Drugs on Ribosome Biogenesis by Self-Organizing Maps"*, International Conference on Systems Biology, October 28 – November 1, 2018, Lyon, France (Poster Presentation)