Mustafa SERTBAŞ

Ph.D. Candidate in Chemical Engineering
Thesis Supervisor: Prof. Kutlu ÜLGEN

CONTACT DETAILS

Address: Department of Chemical Engineering, Boğaziçi University, Bebek 34342, Istanbul, TURKEY
Room: KB 440
Phone: +90-212-359 68 76
e-mail: mustafa.sertbas@boun.edu.tr

EDUCATION

2017 – Ph.D. Candidate in Chemical Engineering, Boğaziçi University, Istanbul, TURKEY
2014 – M.Eng. in Chemical Engineering, Illinois Institute Of Technology, Chicago, IL, US
2013 – M.Sc. in Chemical Engineering, Boğaziçi University, Istanbul, TURKEY
Thesis: Investigation of Effects of Neurological Diseases on Human Brain Metabolism: Computational Systems Biology Approach
Advisor: Prof. Kutlu ULGEN
Co-Advisor : Assist. Prof. Tunahan CAKIR
2012 – Graduate Exchange Student, Chemical and Biomolecular Engineering, North Carolina State University, Raleigh, NC, US
2009 – B.Sc. in Chemical Engineering, Hacettepe University, Ankara, TURKEY

PROFESSIONAL EXPERIENCES

2019 – Lecturer, Istanbul Technical University, Department of Chemical Engineering, Istanbul, TURKEY
2018 – 2019 Research and Teaching Assistant, Istanbul Technical University, Department of Chemical Engineering, Istanbul, TURKEY
2017 – 2018 Specialist, Istanbul Medeniyet University, Istanbul, TURKEY
2015 – 2016 Reserve Officer, Turkish Land Forces, Balıkesir, TURKEY
2013 – 2014 Research and Teaching Assistant, Illinois Institute of Technology, Department of Chemical and Biological Engineering, Chicago, IL, US
2011 – 2013 Research and Teaching Assistant, Gebze Technical University, Department of Bioengineering, Kocaeli, TURKEY

RESEARCH INTERESTS

Computational Systems Biology
Human Metabolism
Biotechnology
Mathematical Modelling
Statistical Analysis

PUBLICATION

- Sertbas M and Ulgen KO (2020) "Genome-Scale Metabolic Modeling for Unraveling Molecular Mechanisms of High Threat Pathogens". Frontiers in Cell and Developmental Biology, 8:566702.
- Sertbas, M. and Ulgen, K.O., 2018. "Unlocking Human Brain Metabolism by Genome-Scale and Multiomics Metabolic Models: Relevance for Neurology Research, Health, and Disease" Omics: A Journal of Integrative Biology, 22(7), pp.455-467.
- Sertbaş, M., Ülgen, K., & Çakır, T., 2014. "Systematic analysis of transcription-level effects of neurodegenerative diseases on human brain metabolism by a newly reconstructed brain-specific metabolic network", FEBS Open Bio, 4(1), 542-553.

INTERNATIONAL CONFERENCES

- Sertbas M., Ulgen K., and Cakir T., 2012, “Investigation of The Effects of Neurological Diseases on Human Brain Metabolism by A Computational Systems Biology Approach”, 15th European Congress on Biotechnology, Istanbul, Turkey

- Sertbas M., Ulgen K., and Cakir T., 2013, “Metabolic Analysis of Parkinson's and Huntington's Diseases: A Computational Systems-Biology Approach”, 9th European Congress of Chemical Engineering, The Hague, Netherlands