

BIOE4097 BIOENGINEERING GRADUATION PROJECTS (2020-2021)

Project ID	Supervisor(s)	Project title	Student(s)
AAU1	Prof. Ahu Altinkut Uncuoğlu	Biological Synthesis and Characterisation of Zinc Oxide and Iron Oxide Nanoparticles for Agricultural Applications	Anahita Hemmat Zadeh Khiabani, Bilgen Özsoy, Erhan Karadağ
AAU2	Prof. Ahu Altinkut Uncuoğlu	Optimisation of In Vitro Regeneration Systems of Rice (<i>Oryza sativa</i> L.)	Hilal Toy, Hamdiye Göze
BM1	Prof. Bülent Mertoğlu	Long term effects of EDC on <i>Saccharomyces cerevisiae</i>	Aysu Selen Terzioğlu, Mehmet Güneş Akgün
BM2	Prof. Bülent Mertoğlu	Investigation of hydrazine tolerance and metabolism in Anammox process	Nurdan Çelik, Hilal Karagül
BSA1	Prof. Berna Sariyar Akbulut	Understanding methylotrophic adaptation for a sustainable environment	Aysu Ege Törer, Elif Göksu Biçmen, İrem Yazar
BSA2	Prof. Berna Sariyar Akbulut & Assoc. Prof. Pemra Özbek Sarıca	The comparative analysis of three OXA-type beta-lactamases from 3 important pathogens	Ece Buse Cintosun, Betül Oruçoğlu
BSA3	Prof. Berna Sariyar Akbulut & Assoc. Prof. Pemra Özbek Sarıca	Computational analysis of the DAHPS of a microorganism important for industrial biotechnology	Afife Banu Çakar, Yasemin Tuğba Genç
BT1	Assist. Prof. Beste Turanlı	Redefining molecular markers of cardiomyopathy through systems biology perspective	Beyza Nur Mert, Hadice Kübra Kara
BT2	Assist. Prof. Beste Turanlı	Meta-analytical framework for prediction of physiological biomarkers in alopecia	Dilan Nisa Yılmaz
CK1	Assist. Prof. Ceyda Kasavi	Investigation of Human Abdominal Aortic Aneurysm Using Global Transcriptome	Defne Çiğ
CK2	Assist. Prof. Ceyda Kasavi	Systems Biology Approach to Identify Candidate Biomarkers of Thyroid Cancer	Damla Çelik, İrem Kara, Damla Marangoz
DK1	Prof. Dilek Kazan	Metabolomics and SARS-CoV-2	Cansu Demirhan, Selen Aslı Aydın, Sude Gökçe
DK2	Prof. Dilek Kazan	Technoeconomic analysis of biosurfactant production from Bacillus strain	Mustafa Mert Mertekçi
ETO1	Prof. Ebru Toksoy Öner	Injectable hydrogels for tissue regeneration	Aylin Şenocak, Hatice Sena Temiz, İremnur Boyacı
ETO2	Prof. Ebru Toksoy Öner	Levan based nanoparticulate drug delivery systems	Büşra Demirci, Gizem Pilatin, Serra Zeynep Akkoyunlu
ETO3	Prof. Ebru Toksoy Öner	Nanogels for drug delivery	Ata Alp Kurşunlu, Hatice Selen Akkaya, Bahadır Şarlıgil
FNO1	Prof. Faik N. Oktar	Extraction and characterization of cellulose from hemp	Nursena Aksoy, Işıl Aylin Mutlu
FNO2	Prof. Faik N. Oktar	4D printed scaffolds for biomedical applications	Ezgi Yılmaz, Kasım Anlatır, Övgü Zaman
FNO3	Prof. Faik N. Oktar	Cellulose containing electrospun scaffolds for biomedical applications	İrem Kılıç, Bengisu Doğa, Afranur Erbek
KYA1	Prof. Kazım Yalçın Arğa	Comparative systems biology analysis of proteasome inhibitors in cancer therapy	Kerem Can Akdağ, Selcan Akbulut, Büşra Ekingen
NAS1	Assoc. Prof. N. Alpago Sayar	Sensitivity analysis for bioreactor design - case study	Eren Can Taşçı
POS1	Assoc. Prof. Pemra Özbek Sarıca & Prof. Berna Sariyar Akbulut	Discovery of new drugs for the inhibition of type IV pili mechanism in <i>N.meningitidis</i> computationally	İrem Begüm Gündüz, Melis Gövdeli
POS2	Assoc. Prof. Pemra Özbek Sarıca & Prof. Berna Sariyar Akbulut	Development of automated analysis techniques for Molecular dynamics simulations	Ceren Karcıoğlu, Melike Polatgil, Fatmanur Ertunç