Beykoz Yaşam Bilimleri ve Biyoteknoloji Enstitüsü 2024 Yıl Sonu Faaliyet Raporu

10 Aralık 2024

BEZMIALEM VAKIF UNIVERSITY 1845

Two Centuries Of Experience In Health

Sunu Planı

BEZMIALEM VAKIF UNIVERSITY 1845

- Öğretim Üyeleri -Özet-
- Akademik ve Idari personel
- Bütçe
- Yayınlar
- Projeler
- Eğitim ve Diğer Aktiviteler
- Öğretim Üyeleri-Laboratuvarları
- Sonuç

Öğretim Üyeleri

BEZMIALEM VAKIF UNIVERSITY 1845

Ahmet Cingöz

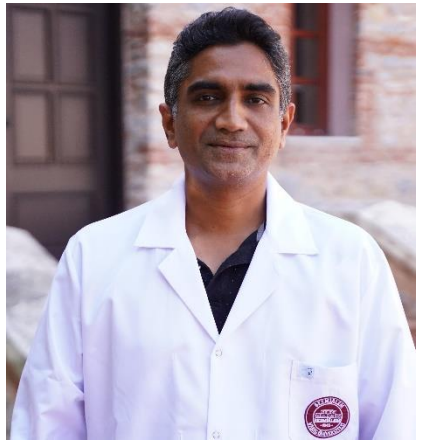
Caner Çağlar

Şükrü Anıl Doğan

Mehmet Z. Doymaz

Şeref Gül

M. Aziz Hatiboğlu



M. Asif Khan

O. Emre Onat

Matteen Rafiqi

Serdar Uysal

Öğr. Üyeleri-Kısa Biyografiler

BEZMIALEM VAKIF UNIVERSITY 1845

Faculty	Education and Training	Field
Ahmet Cingöz, PhD	• B.Sc; Istanbul University • M.Sc.; Marmara University and • Ph.D. ; Koç University • Post-Doc; Harvard University	Cancer Biology
Caner Çağlar, PhD	• BSc; Bilkent University, • PhD; Rockefeller University	Neuroscience
Şükrü Anıl Doğan, PhD	• B.Sc; Middle East Technical University (METU) • M.Sc.; Middle East Technical University (METU) • Ph.D. ; Universität zu Köln • Post-Doc; University of Cambridge	Molecular Biology
Mehmet Doymaz, PhD	• BSc; Ankara University, • MSc+PhD; University of Tennessee, • Post-Doc; Mount Sinai Sch Med. • Fellowship; UCLA	Microbiology
Şeref Gül, PhD	• B.Sc; Boğaziçi University • MSc; Boğaziçi University & Michigan State Univ. • Ph.D.; Koç University, • Post-Doc.; Koç University,	Circadian Biology & Drug Development

Öğr. Üyeleri-Kısa Biyografiler

BEZMIALEM VAKIF UNIVERSITY 1845

Faculty	Education and Training	Field
M. Aziz Hatiboğlu, MD	• MD; Ankara University • Residency; S.B. Okmeydanı E.A. H. • Fellowship; The University of Texas, M.D. Anderson Cancer Center	Neurosurgery
M. Asif Khan, PhD	• BSc; National University of Singapore, • MSc; National University of Singapore • PhD; National University of Singapore • Post Doc; Johns Hopkins, Singapore & National University of Singapore • Assist. Professor; Perdana University	Bioinformatics
O. Emre Onat, PhD	• BSc; Boğaziçi University, Istanbul • MSc; Bilkent University, Ankara • PhD; Bilkent University, Ankara • Assit. Professor; Acıbadem University, Istanbul	Molecular Genetics
Matteen Rafiqi, PhD	• BSc; SK University of Ag. Sci & Tech • MSc; Vaginen Univ. • PhD; Max Planck Ins. Univ. Chicago, • Post-Doc; McGill University	Developmental Biology
Serdar Uysal, PhD	• BSc; Marmara Univ, İstanbul Technical University • MSc+PhD; University of Chicago, • Post-Doc; Harvard Univ.	Biochemistry

Doktora Sonrası (Post-Doc) Araştırmacılar

BEZMIALEM VAKIF UNIVERSITY 1845

Post-Doctoral Fellows	Education and Training	Field
Mauricio ALARCON (Rafiqi Lab)	• BSc; University of Concepcion, Chile • Msc; University of Concepcion, Chile • PhD; National Taiwan University, Taiwan	Entomology
Elif Karaman (Uysal Lab)	• BSc.; Yıldız Technical University • MSc.; Bezmialem Vakıf University • PhD.; Bezmialem Vakıf University	Biotechnoogy
Ayşegül Pirinçal (Doymaz Lab)	• BSc; DumlupınarUniversity, • MSc; Marmara University, • PhD; Marmara University,	Molecular Virology
Ehsan Sarayloo (Albayrak Lab)	• BSc; Iranian University of Science and Technology • MSc; Sharif University of Technology • PhD; Koç University,	Biotechnology

Lisansüstü Öğrenciler

BEZMIALEM VAKIF UNIVERSITY 1845

	Name	Title	Start Date
1	Sercan Keskin	Research Assistant (BVU)	08.06.2020
2	Ümit Yaşar Kına	Research Assistant (BVU)	19.03.2018
3	Nihan Sultan Milat	Research Assistant (BVU)	18.11.2019
4	Büşra Karaçam	Research Assistant (BVU)	26.11.2019
5	Birgül Çolak	Research Assistant (BVU)	18.02.2021
6	Özlem Bakangil	Research Assistant (BVU)	13.09.2021
7	Faruk Üstünel	Research Assistant (BVU)	06.12.2021
8	Ömür Gözde Demirtaş	Research Assistant (BVU)	05.01.2024
9	Betül Oruçoğlu	Research Asistant (BVU)	05.01.2024
10	Levise Tenay	Technician (BVU)	19.09.2023
11	Sevim Nur Akyüz	Technician (BVU)	21.02.2022
12	Fatmanur Deniz	Technician (BVU)	13.05.2024
13	Yeşim Erol	Research Assistant (TÜBİTAK)	22.12.2022
14	Demet İnci	Research Assistant (TÜBİTAK)	30.04.2023
15	Nazlı Sultan Şahin	Research Assistant (TÜBİTAK)	30.04.2023
16	Hursima İzğiş	Research Assistant (TÜBİTAK)	01.07.2023
17	Betül Oruçoğlu	Research Assistant (TÜBİTAK)	01.07.2023
18	İclal Meriç	Research Assistant (TÜBİTAK)	15.05.2023
19	Özgür Zelal Durmuş	Research Assistant (TÜBİTAK)	12.06.2021

Teknisyenler

BEZMIALEM VAKIF UNIVERSITY 1845

Name	Education	Title	Starting date
Filiz Kaptan	Bilecik Univ. Mol. Biology & Gen.	Technician	20.11.2017
Selahattin Aydoğan	Istanbul Univ. Mol. Biology & Gen.	Technician	6.5.2023
Beyza Kinsiz	Üsküdar Univ. Mol. Biology & Gen.	Technician	6.5.2023
Sevim Nur Akyüz	N. Erbakan Univ. Mol. Biol. & Genetic	Technician	1.9.2020
Levise Tenay	Biruni Univ. Bioengineering	Technician	19.9.2023
Ebru Sarsılmaz	Üsküdar Univ. Bioengineering	Technician	5.12.2022
Zeynep Kartal	Üsküdar Univ. Mol. Biology & Gen.	Technician	1.12.2023
Fatmanur Deniz	Marmara Üniversitesi Gen. & Bioengineering	Technician	13.5.2024

İdari Personel

BEZMIALEM VAKIF UNIVERSITY 1845

Name	Position	Starting Date
Şehlem Ertekin	Institute Secretary	20.06.2022
Hilal Başyeğit	Assistant Admin. Sec.	05.08.2024
Shazia Naqshbendi	Assistant Admin. Sec.	01.08.2024
Adem Yıldız	Support Personnel	27.08.2018
Berrin Düzgit	Support Personnel	25.06.2018

Bütçe (BVU)

BEZMIALEM VAKIF UNIVERSITY 1845

Bütçe (TL)	2021	2022	2023	2024
Giderler	2,996,532	5,011,850	10,569,861	14,063,494
Maaş	6,177,500	9,033,013	15,479,767	23,181,392
Toplam	9,174,032	14,044,863	26,049,628	37,244,886

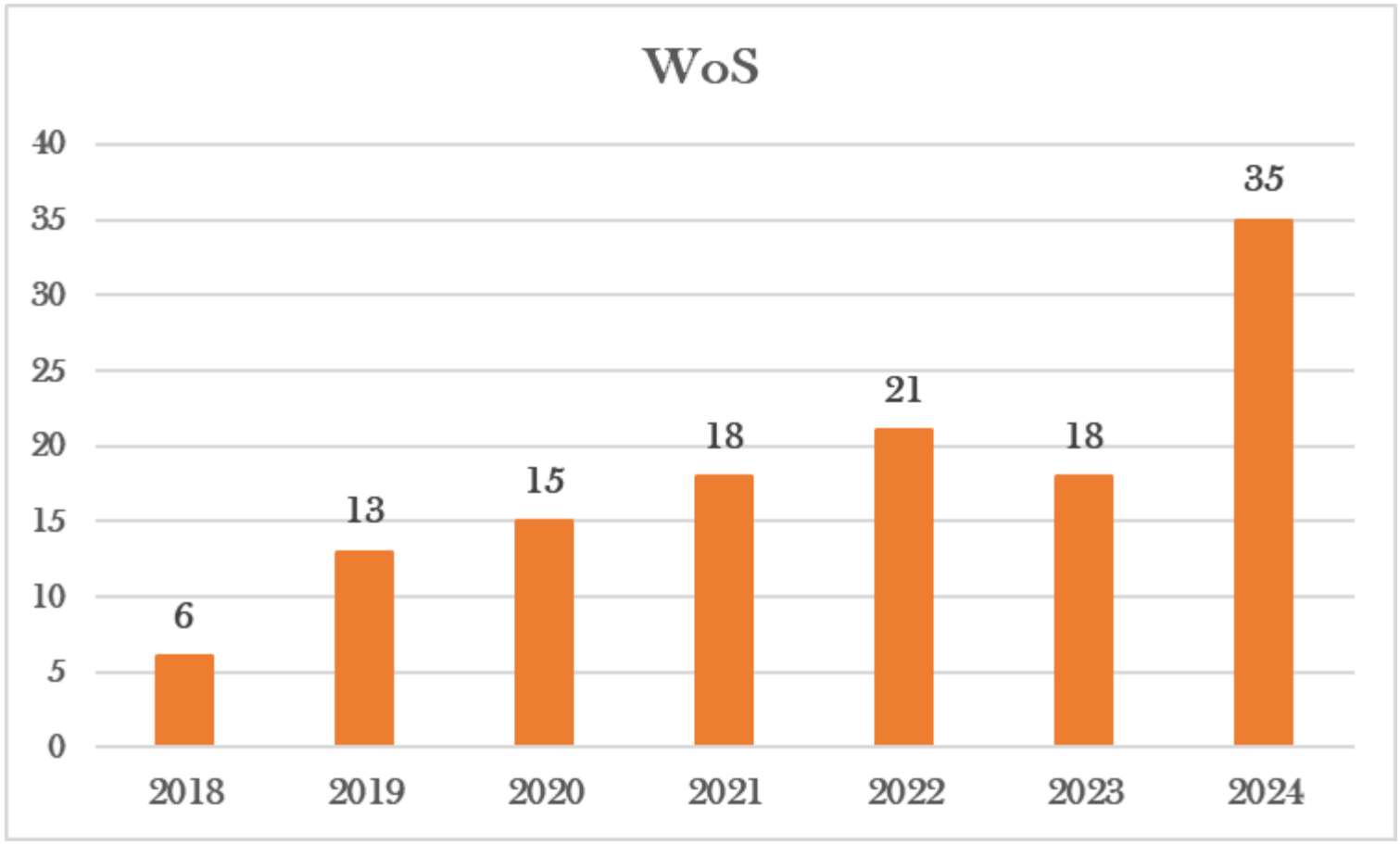
Budget (USD)	2021 (8.89)	2022 (16.57)	2023 (23.90)	2024 (32.50)
Misc.	337,068	302,465	442,254	404,134
Salaries	694,882	545,143	647,689	666,132
Total	1,031,950	847,608	1,089,943	1,070,22

Yayınlar

BEZMIALEM VAKIF UNIVERSITY
1845

Two Centuries Of Experience In Health

Yayınlar -Web of Science



Total of 126 publications (Dec.9.2024)

Projeler

BEZMIALEM VAKIF UNIVERSITY 1845

Two Centuries Of Experience In Health

Projeler

BEZMIALEM VAKIF UNIVERSITY 1845

- Halen, YABBE'dea 38 bilimsel araştırma projesi yürütülmektedir.
- Ayrıca, 24 proje tamamlanmıştır.
- Projeler için dış kaynaklı finansman;Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TÜBİTAK),Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB) tarafından sağlanmaktadır.
- Bunun yanı sıra, BAP tarafından desteklenen önemli sayıda proje bulunmaktadır.
- Projelerin tam listesi tablolarda verilmiştir

Yayın ve Proje Sayıları

BEZMIALEM VAKIF UNIVERSITY 1845

PI	Printed Papers ('24)	Man. In Prep ('24)	Completed Projects ('24)	Ongoing Projects ('24)	Posters ('24)	Total Manuscripts ('24)	Total Projects ('24)	Total Output ('24)
Cingöz Lab	2	1	4	4	1	3	8	12
Çağlar Lab	-	1	-	9	-	1	9	10
Dogan Lab	-	3	2	2	1	3	4	8
Doymaz Lab	5	5	3	1	3	10	4	17
Gül Lab	5	2	4	8	3	7	12	22
Hatiboğlu Lab	7	6	2	2	2	13	4	19
Khan Lab	9	6	5	4	12	15	9	36
Onat Lab	3	4	-	3	4	7	3	14
Rafiqi lab	3	3	4	4	6	6	8	20
Uysal Lab	1	-	-	1	2	1	1	4
Total	35	28	24	38	34	65	62	162

TUBITAK Projeleri

BEZMIALEM VAKIF UNIVERSITY 1845

Project No	Title	PI	Institution	Start Date	End Date	Group	Status	Type	Budget
120C157	The developmental genetics of obligate endosymbiosis and its effect on the evolution of insects	AB. MATTEEN RAFIQI	BEZMİALEM VAKIF Ü.	2021	2024	BİDEB	Completed	BİDEB-2247A	2.346.800 TL
123Z182	Preparation of Microalgae Chlorella Vulgaris Cell Extract for Cell-Free Protein Synthesis(Completed)	EHSAN SARAYLOO	BEZMİALEM VAKIF Ü.	2023	2024	KBAG	Completed	1002 - Rapid	60.000 TL
221Z267	Discovery of SARS-CoV-2 Inhibitor Using Biosafe SARS-CoV-2 Replicon with Drug Repositioning Method	ŞEREF GÜL	BEZMİALEM VAKIF Ü.	2022	2024	KBAG	Completed	3501 – Carrier Dev.	519.250 TL
123Z774	Understanding the Emergence of Cells Housing Endosymbionts using Leafhoppers	MAURICIO ERNESTO ALARCON ALVAREZ	BEZMİALEM VAKIF Ü.	2024	2026	KBAG	Ongoing	1001-Research	1.183.400 TL
222S095	Examining the Relationship Between DMHPPP1R17 Neurons, Anxiety and Binge Eating	CANER ÇAĞLAR	BEZMİALEM VAKIF Ü.	2022	2025	SBAG	Ongoing	1001 - Research	851.540 TL
222S389	Investigation and Molecular Characterization of the Roles of Obesity-Associated Steap1b, Kcnq5 and Ucp1 Genes in Disease Pathogenesis	O. EMRE ONAT	BEZMİALEM VAKIF Ü.	2023	2026	SBAG	Ongoing	1001 - Research	1.654.880 TL
20AG044	Development of biomarkers and advanced technology pharmaceuticals for monitoring and treating inflammasome-mediated autoinflammatory diseases	AHMET GUL-(S.UYSAL/ C. ALBAYRAK)	ISTANBUL UNIV-BVU	2021	2025	SBAG	Ongoing	1004-Center of Excellence Support Grants	4.000.000 TL
222O123	Identification and investigation of antigenicity of Spherical Body Protein 4 (SBP4) of *Babesia ovis*	MUNIR AKTAŞ (MZD)	FIRAT UNIV-BVU	2023	2026	VHAG	Ongoing	1001- Research	1.332.600 TL
123Z284	Heterologous Production of cannabidiol in Microalgae Nannochloropsis Oceanica	EHSAN SARAYLOO	BEZMİALEM VAKIF Ü.	2023	2025	KBAG	Ongoing	1001-Research	

Eğitim ve Diğer Aktiviteler

Beykoz BILSAB Seminerleri

BEZMIALEM VAKIF UNIVERSITY 1845

Speaker	Date	Title	Venue
Prof. Tarlan Mammedov	22.1.2024	Robust Technologies enabling the development of cost-effective, safe vaccines and therapeutics against COVID-19, malaria, anthrax and other	BILSAB Conf. Room
Assoc. Prof. Sinem Burcu Erdoğan	9.2.2024	The Potential of fNIRS based BCI System Designs as Clinical Decision Support Systems in Psychiatry	BILSAB Conf. Room
Dr. Toghrul Almammadov	23.2.2024	Activitiy-based molecular probes for visualization and treatment of cancer cells with an improved selectivity	BILSAB Conf. Room
Prof. Dr. Günseli Bayram Akçapınar	8.3.2024	Unveiling the Amphiphilic Nature, Characterictics and Diverse Applicaitons of Fungal Hydrophobins through Protein Engineering	BILSAB Conf. Room
Assoc. Prof. Şener Özönder	29.5.2024	Building in slico drug discovery pipeline with transformers	BILSAB Conf. Room
Dr. Mahaboobkhan Rasool	31.5.2024	Dentritic cell-T- helper 17 cell crosstalk in rheumatoid arthritis pathogenesis-a promising therapeutic invention	BILSAB Conf. Room
Dr. Sumiti Vinayak Alam	1.8.2024	Building in slico drug discovery pipeline with transformers	BILSAB Conf. Room
Dr. Melike Seçilmiş	28.8.2024	Exploring Cellular Stress Responses Utilizing Genetically Encoded Biosensors	BILSAB Conf. Room
Prof. Rachel Green	30.10.2024	Concentration Matters; Regulation of Ribosome Homeostasis	BILSAB Conf. Room
Dr. Tuna Pesen Inanç	8.11.2024	Investigating Cell Mechanics with Optical Tweezers and Raman Spectroscopy	BILSAB Conf. Room
Prof. Dr. Stefan H Fuss	22.11.2024	Regulation of stem cell activity in the zebrafish nervous system.	BILSAB Conf. Room
Dr. Özlem Yedier Bayram	06.12.2024	Combattingchemoresistance in triple negative breast cancer by targeting epigenetic modifiers	BILSAB Conf. Room

Beykoz BILSAB Seminerleri

BEZMIALEM VAKIF UNIVERSITY 1845

BILSAB (BEYKOZ) Seminar Series

Prof. Rachel Green

Johns Hopkins University, Director of the Department of Molecular Biology and Genetics in the School of Medicine

›Concentration Matters: Regulation of Ribosome Homeostasis

›Johns Hopkins University, Director of the Department of Molecular Biology and Genetics in the School of Medicine

Rachel Green began her scientific career majoring in chemistry as an undergraduate at the University of Michigan. Her doctoral work was performed in the laboratory of Jack Szostak at Harvard University where she studied RNA enzymes and developed methodologies for evolving RNAs in vitro. She came to the Johns Hopkins University School of Medicine in 1998 following post-doctoral work in Harry Noller's lab at University of California Santa Cruz where she began her work on ribosomes. Her laboratory is interested in deciphering the molecular mechanisms that are at the heart of protein synthesis and its regulation across biology. This focus allows her to still think about the earliest evolutionary steps that led to life on earth, but in a system where biological questions drive the experiments. Her laboratory uses both biochemical and genomic approaches to get at these questions in bacterial and eukaryotic systems.

Dr. Green is a Bloomberg Distinguished Professor at Johns Hopkins University, serving as Director of the Department of Molecular Biology and Genetics in the School of Medicine and faculty in the Krieger School of Arts and Sciences, Department of Biology. She has been a Howard Hughes Medical Institute Investigator since 2000.

Concentration Matters: Regulation of Ribosome Homeostasis

Ribosomes are essential cellular machinery responsible for protein synthesis, and their levels must be tightly regulated to meet the demands of the cell.Ribosome homeostasis refers to the balance between ribosome production, degradation, and utilization, which is critical for maintaining cellular health and function. Disruptions in ribosome homeostasis can lead to various cellular stresses, impaired protein synthesis, and contribute to diseases, including cancer and neurodegenerative disorders.

Seminar Date: 30 October 2024 - 2.00 pm

Place: BILSAB Seminar Hall

BEZMIALEM VAKIF UNIVERSITY 1845

BILSAB (BEYKOZ) Seminar Series

Prof. Dr. Stefan H Fuss

Molecular Biology and Genetics at Bogazici University

›Regulation of stem cell activity in the zebrafish nervous system.

›Molecular Biology and Genetics at Bogazici University

Prof. Dr. Stefan H. Fuss is a Professor at Bogazici University in Istanbul, Turkey, where he has been a faculty member since 2002, advancing from Assistant Professor to Associate Professor before becoming a Professor in 2024. He holds an MSc from Johannes-Gutenberg Universität, Mainz (DE), a PhD from Universität zu Köln, Köln (DE) and completed his postdoctoral research at The Rockefeller University, New York (USA). His research focuses on stem cell regulation, nervous tissue regeneration, and olfactory system development, using zebrafish as a model. Since 09/2018 Prof. Dr. Fuss has been the General Secretary of the European Chemoreception Research Organization (ECRO). He also serves on the Executive Board of the Institute for Graduate Studies in Science and Engineering at Bogazici University since 09/2022.

Regulation of stem cell activity in the zebrafish nervous system.

The nervous system generally has a low capacity for structural repair and regeneration. Especially in the mammalian brain, only few sites exist that generate new nerve cells under physiological conditions and in response to traumatic injury. We use the zebrafish olfactory system as an experimental model to identify and functionally test molecular signals that modulate stem/progenitor cell activity, which could be generalized to other regions of the nervous system and which may have relevance beyond zebrafish.

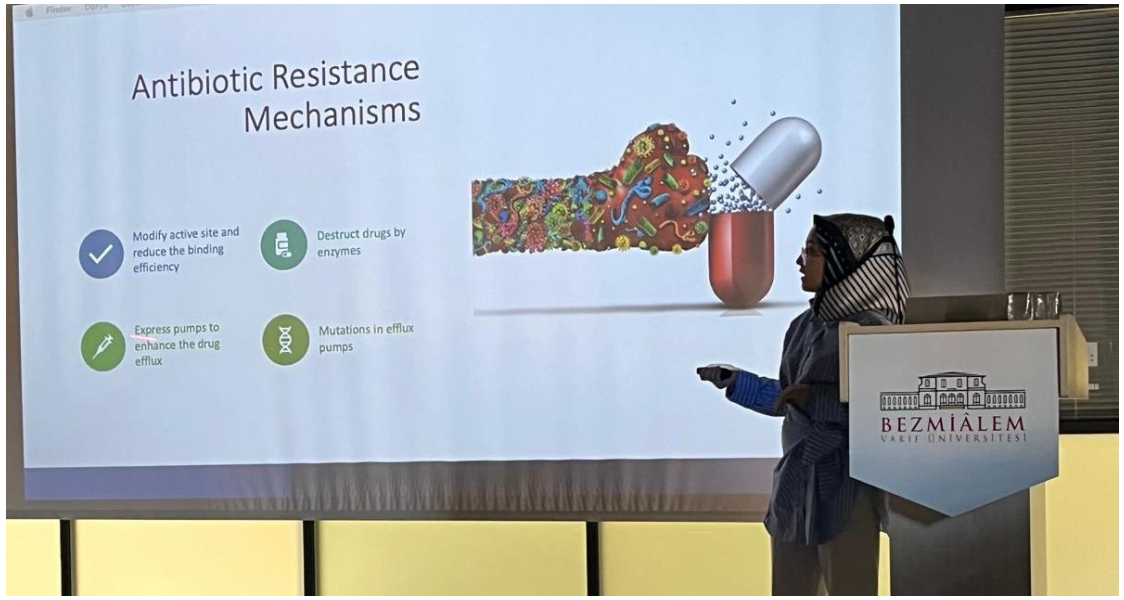
Seminar Date: 22 November 2024 - 3.00 pm

Place: BILSAB Seminar Hall

Aktiviteler

BEZMIALEM VAKIF UNIVERSITY 1845

Activity	Date
Summer School	3-14 June 2024
Introduction to Bioinformatics and Programming Languages Course	August 6 to September 3, 2024
Leptin & Metabolism Symposium (30th Anniversary Celebration)	October 31st to November 1st, 2024
17th The International Symposium on Health Informatics and Bioinformatics (HIBIT)	18-20 December 2024


Antibiotic Resistance Mechanisms
Modify active site and reduce the binding efficiency
Destruct drugs by enzymes
Express pumps to enhance the drug efflux
Mutations in efflux pumps
BEZMİÂLEM
VAKIF ÜNİVERSİTESİ

Leptin & Metabolism Symposium

Leptin & Metabolism Symposium

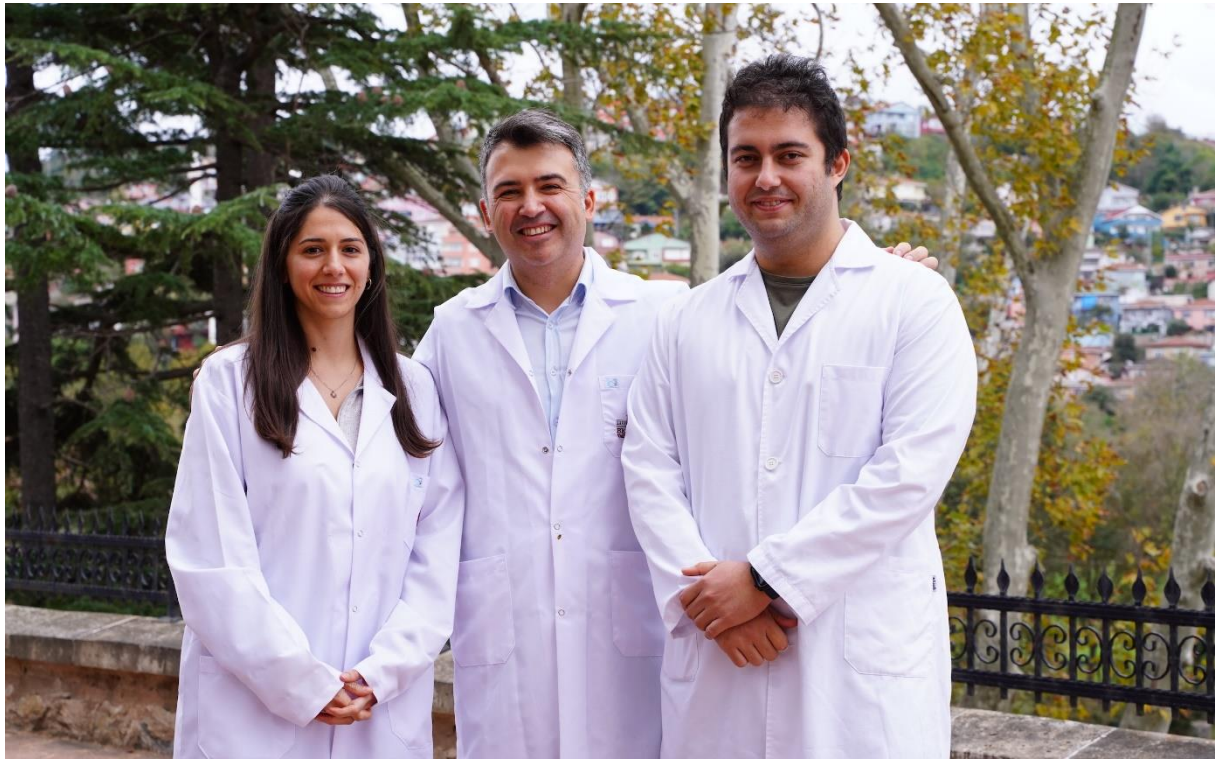
BEZMIALEM VAKIF UNIVERSITY 1845

Leptin & Metabolism Symposium

Öğretim Üyeleri ve Laboratuvarlar

Cingöz Lab

BEZMIALEM VAKIF UNIVERSITY 1845



Research Area	Therapy resistance in cancer and tumor metabolism.
Personnel	1. PhD Student: Demet İnci 2. MSc Student: F. Emre Bora

Cingöz Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Projects

Ongoing Projects PI:

1. "Investigation of metabolic factors playing a role in apoptotic therapy resistance in glioblastoma cells." TUBITAK 3501, 2024-2026.
2. "Examination of the role of tumor metabolism in glioblastoma by in vivo CRISPR/Cas9 screen." TÜSEB-A4, 2024-2025.
3. "Exploration of Oxidative Phosphorylation Mechanisms in TRAIL-Resistant Glioblastoma Cells at Molecular Level." BVU-BAP, 2024-2026.

Collaborative Projects:

1. "Investigation of Talin-1 Targeted Mechanisms in Platelets as a New Treatment Approach in Platelet Function Disorders." TUBITAK 1001, 2024-2027.
2. "Selective Tumor Imaging Studies with a Receptor-Targeted and Activity-Based Chemiluminescent Agent Able to Glow in the Red Zone." TUBITAK 1001, 2023-2026.
3. "Investigating the mechanisms of BRPF inhibitors in overcoming chemotherapy resistance in triple negative breast cancer and development of novel epigenetic targeted combination therapies." TUBITAK 1001, 2021-2024.

Projects	Completed Projects: 1. Investigation of the role of tumor metabolism in treatment-resistant brain cancers.” Koç University Seed Research Fund, 2021-2022. (PI) 2. "Synthesis of mitochondria-targeted activated chemiluminescent agents and applications for in vivo tumor imaging." TUBITAK 1001, 2020-2022. 3. "Investigation of the roles of KDM6A and KDM6B Histone demethylases in Isocitrate Dehydrogenase (IDH) mutated gliomas.” TUBITAK 1001, 2020-2023. 4. "Recruitment of Swi/Snf chromatin remodeling complex by Hoxb13 and its effect on prostate cancer epigenetics." TUBITAK 1001, 2021-2024.

Cingöz Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Posters	1. Cingöz A., "Discovery of new metabolic pathways implicated in therapy resistance in glioblastoma (GBM)". 19. Meeting of The European Association of Neuro-Oncology (EANO), Glasgow, UK, Oct 2024.

Cingöz Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications

1. Lingadahalli S, Ersoy Fazlioglu B, Altintas UB, Cingöz A, Tekoglu E, Yu IPL, Dikbas UM, Andomat H, Kulac I, Morova T, Xiao K, Gleave M, Fazli L, Cejas P, Cherkasov A, Zwart W, Long H, Collins C, Bagci-Onder T, Lack NA. "HOXB13 alters chromatin accessibility in prostate cancer through interactions with the SWI/SNF complex." bioRxiv (2023), 2023.09.04.556101. https://doi.org/10.1101/2023.09.04.556101. (Revision: Molecular Cancer)
2. Kayabolen A, Sahin GN, Seker F, Cingoz A, Isik B, Acar S, Solaroglu I, Wakimoto H, Cahill D, Cribss A, Oppermann U, Bagci-Onder T. "Orthogonal targeting of KDM6A/B and HDACs mediates potent therapeutic effects in IDH1-mutant glioma". bioRxiv, 2020.11.26.400234; https://doi.org/10.1101/2020.11.26.400234. (Revision: Cell Death and Disease).
3. Yedier-Bayram O, Cingöz A, Yilmaz E, Aksu AC, Esin B, Pınarbaşı-Değirmenci N, Cavga AD, Dedeoğlu B, Cevatemre B, Syed H, Philpott M, Cribbs AP, Oppermann U, Lack, NA, Acilan C, Onder TT and Bagci-Onder T. "Chromatin-focused genetic and chemical screens identify BRPF1 as a targetable vulnerability in Taxol-resistant triple-negative breast cancer." bioRxiv 2024.04.16.587277; doi: https://doi.org/10.1101/2024.04.16.587277. (Revision: Experimental & Molecular Medicine).

Cingöz Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Manuscripts in Preparations	1. Sizgi B., Inci D., Koc EB., Cingöz A. "Reprogramming of tumour metabolism during the development of therapy resistance in cancer." Biomolecules and Biomedicine.

Thesis	1. Demet İnci, PhD Thesis, Continuing; "Investigating Metabolic Mechanisms Underlying Therapeutic Resistance in Glioblastoma". 2. F. Emre Bora, MSc Thesis, Continuing.

Çağlar Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Neural basis of feeding related behaviours
Personnel	1. Research Assistant Miraç Keleştemur (PhD Student) 2. Research Assistant Beyza Kinsiz Gürsoy (PhD Student) 3. Technician Fatmanur Deniz (Master Student) 4. Undergraduate Researcher Feyza Emre 5. Undergraduate Researcher Betül Berre Yılmaz 6. Undergraduate Researcher Şevval Yılmaz

Çağlar Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Projects

Ongoing Projects

1. Investigation of the Relationship Between High-Calorie Diet-Induced Obesity and DMHPpp1r17 Neurons and Nitric Oxide Signaling Pathway in DMHPpp1r17 Neurons – TUSEB B Grubu AR-GE – 3.000.000 TL
2. Investigating the impact of DMHPDYN neurons on aggression
3. Investigating the Relationship Between Dmhppp1r17 Neurons, Anxiety, and Binge Eating- TUBITAK 1001-576.520 TL
4. Investigation of the roles of obesity-associated STEAP1B, KCNQ5 and UCP1 genes in the pathogenesis of the disease TUBITAK 1001-1.247.000 TL
5. The role of Leprb neurons located in the claustrum in the regulation of food related behaviors, External joint effort; cost covered by Yeditepe University
6. The role of Leprb neurons located in the claustrum in the regulation of anxiety, External joint effort; cost covered by Yeditepe University
7. The role of Pdyn neurons located in the parafascicular nucleus in the regulation of food related behaviors, External joint effort; cost covered by Yeditepe University
8. The role of Pdyn neurons located in the parafascicular nucleus in the regulation of anxiety, External joint effort; cost covered by Yeditepe University
9. The role of Pdyn neurons located in the dorsomedial hypothalamus in the regulation of maternal behaviors, External joint effort; cost covered by Yeditepe University

Çağlar Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications	1. Dysregulation of mTOR signaling is a converging mechanism in lissencephaly – 2024 – Nature – In Press 2. Caglar C. Clinical Application of Next Generation Sequencing: Complex Diseases, 2023. 3. Kars, M., et al. "The genetic structure of the Turkish population reveals high levels of variation and admixture." Proceedings of the National Academy of Sciences 118.36 (2021): e2026076118. 4. Caglar, Caner, and Jeffrey Friedman. "Restriction of food intake by PPP1R17-expressing neurons in the DMH." Proceedings of the National Academy of Sciences 118.13 (2021): e2100194118.

Çağlar Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Meeting / Seminar / Conference / Session Chair	1. Caglar C, Event Co-Chair, "Celebrating the 30th Anniversary of Leptin Discovery". Symposium on Leptin & Metabolism, 31 October – 1 November 2024, Istanbul, Türkiye, 2. Çağlar, C. Featured Speaker. 'The Brain in Rhythm: Neural Responses and Adaptations to Scheduled Feeding'. Symposium on Leptin & Metabolism, 31 October – 1 November 2024, Istanbul, Türkiye.

Doğan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	The critical role of mitochondria in health, disease, metabolism, and aging
Personnel	1. Aylin Karatas, M.Sc (Ph.D. candidate)

Projects	Ongoing Projects (As Researcher) 1. with Assist. Prof. Serkan Kir of Koc University. Prevention of cancer-associated muscle wasting by NIK inhibition. TUBITAK 1001, 124Z372, Budget 2.018.016 TL, 2024-2027. 2. with Prof. Zeynep Karakas of Istanbul University. In-vitro Potential Therapeutic Effects of NAD^+ and Antioxidants on Oxidized Hemoglobin and Mitochondrial Damage-Associated Molecular Patterns (DAMPs) in Hemoglobinopathies. The Council of Higher Education (YOK) Research Universities Support Program, 39178, Budget: 360.000 TL, 2022-2025.

Projects	Completed Projects 1. Possible Effects of Baclofen on Mitochondrial Function. (The Council of Higher Education (YOK) Research Universities Support Program-50004). Budget; 1.129.913,37 TL. (2023-2024) 2. Amelioration of Mitochondrial (Cardio) Myopathy in Mice Using Two Different Approaches. (TUBITAK 3501-321S547). Budget; 520.500 TL. (2022-2024)

Talks

1. Redox Signaling in Mitochondrial Myopathies. Medipol University, SABITA Talks (01/2024, Istanbul)
2. The Role of Mitochondria in Aging and Disease. Izmir Institute of Technology, 5th National Molecular Biology and Genetics Congress, (05/2024, Izmir)
3. Therapies Against Mitochondrial Diseases. Gebze Technical University, 1st International Congress on Biotech Solutions for Sustainability, (05/2024, Kocaeli)
4. Tissue specific stress responses in mitochondrial (cardio)myopathies. Max Planck Institute for Biology of Ageing, CGA 10th Anniversary Symposium, (11/2024, Cologne, Germany)
5. Mitochondrial Stress Responses in Myopathies. Gebze Technical University, Biotechnology Institute, (12/2024, Kocaeli)

Posters

1. Neijmann S. T., Gedikbasi A., Dogan S. A., Tatonyan A., Balci M.C., Bekmez B., Karaman S., Atalar F., Gokcay G. F., Karakas Z. 2024. Circulating Cell-Free Mitochondrial DNA as a proinflammatory DAMP for Inherited Hemolitic Anemia. 48th FEBS Congress, Milano, Italy, 29 June – 3 July 2024

Dogan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications

1. Agca S., Domaniku Waraich A., Bilgic S. N., Sucuoglu M., Dag M., Dogan S. A., Kir S. (2024). Tumor-induced alterations in single-nucleus transcriptome of atrophying muscles indicate enhanced protein degradation and reduced oxidative metabolism. *Journal of Cachexia, Sarcopenia and Muscle*, https://doi.org/10.1002/jcsm.13540.
2. Balci M.C., Gedikbasi A., Dogan S. A., Kahraman S., Tatoryan S., Neijmann S. T., Karaca M., Atalar F., Gokcay G. (2024) The role of oxidative damage and mitochondrial dysfunction in the pathogenesis of cystathionine beta-synthase deficiency (*Accepted - Scientific Reports*).
3. Georgiadou P., Sahin E., Kawakita M., Ozturk h., Tiryaki F., Erkaya B., Yildiz K., Ozgenc I., Pekbilir E., Dogan S. A., Lallemand Breitenbach V., Vargas S., Prochiantz A., Firat-Karalar E. N., de Thé H., Sahin U. (2024) ALS driven by NEK1 aggregation is accelerated by Pml loss, clinically reversed by pharmacologic induction of Pml mediated degradation (*Submitted to Nature Communications*).

Dogan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Manuscripts in Preparations	1) Dogan S. A. 2025. The Effect of Ketogenic Diet on Ckmm-Cre Transgenic Mouse. 2) Kartal O., Dogan S. A. 2025. Ketogenic Diet Ameliorates Molecular Parameters in Heart- And Skeletal Muscle-Specific Mitochondrial Aspartyl-tRNA Synthetase (DARS2) Knockout Mouse.

Dogan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Thesis	1. Bengi Bekmez, M.Sc. Thesis, Completed. 2024. The Effects of 5-Aminoimidazole-4-carboxamide ribonucleotide (AICAR) on Mitochondrial (Cardio)Myopathy. 2. Zeynep Melis Kaygun, M.Sc. Thesis, Completed. 2024. Possible Effects of Baclofen on Mitochondrial Function.

Doymaz Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Immunology and Virology of Crimean Congo-Hemorhagic Fever Virus Proteins
Personnel	1. Postdoctoral Fellow Ayşegül Pirinçal 2. Research Assistant Sercan Keskin 3. Research Assistant Özlem Bakangil 4. Research Assistant Ömür Gözde Demirtaş 5. MSc Molecular Biologist Filiz (Güney) Kaptan

Projects	Ongoing Projects 1. 'Identification and investigation of antigenicity of Spherical Body Protein 4 (SBP4) of *Babesia ovis*'. TUBITAK 1001, 222O123, Budget 1.332.600 TL, 2023-2026 (Co-investigator)

Projects	Completed Projects 1. Immunological Characterization of the Crimean-Congo Hemorrhagic Fever Virus Nucleocapsid Protein mRNA Product. (BVU BAP-20220402) 2. Identification of Antigenic Regions in Cellular Th17 Responses to Crimean-Congo Hemorrhagic Fever Virus Nucleoprotein (NP). (BVU BAP-20220213) 3. Stable Expression of Crimean-Congo Hemorrhagic Fever Virus Kelkit Strain Proteins in Eukaryotic Cells. (BVÜ BAP-20230204). (2024)

Doymaz Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications

1. Pirincal A, Doymaz MZ. The Role of Nucleocapsid Protein (NP) in the Immunology of Crimean-Congo Hemorrhagic Fever Virus (CCHFV). Viruses. 2024 Sep 30;16(10):1547. doi: 10.3390/v16101547. PMID: 39459881; PMCID: PMC11512346.
2. Kalkan-Yazıcı M, Karaaslan E, Güler-Çetin NS, Doymaz MZ. Cellular immunity to nucleoproteins (NP) of Crimean-Congo hemorrhagic fever virus (CCHFV) and Hazara Virus (HAZV). Med Microbiol Immunol. 2024 Sep 25;213(1):20. doi: 10.1007/s00430-024-00802-2. PMID: 39320473.
3. Ceylan AN, Toprak A, Doymaz MZ, Sümbül B. 2024. Comparative analysis of different loop types for urine culture collection: Implications for quantitative bacterial growth and culture results. Diagn Microbiol Infect Dis. 108(4):116192. doi: 10.1016/j.diagmicrobio.2024.116192.
4. Gelir A, Asicioglu F, Yilmaz AS, Kuskucu M, Doymaz M, Özdemir OB, Sarıbal D, Salman S, Kadi ÖF, Özdemir S, Seyhan SN. 2024. UVC-LED-based face mask design and efficacy against common germs. Arh Hig Rada Toksikol. 2023 Dec 29;74(4):282-287. doi: 10.2478/aiht-2023-74-3766.
5. Salmanton-García J, Wipfler P, Leckler J, Nauclér P, Mallon PW, Bruijning-Verhagen PCJL, Schmitt HJ, Bethe U, Olesen OF, Stewart FA, Albus K, Cornely OA; VACCELERATE Consortium. 2024. Predicting the next pandemic: VACCELERATE ranking of the WorldHealth Organization's Blueprint for Action to Prevent Epidemics. Travel Med Infect Dis. 2024 Jan-Feb;57:102676. doi: 10.1016/j.tmaid.2023.102676.
6. Çetin., N.S., Ö. Bakangil., S. Keskin., M. Kalkan-Yazıcı, M. Z. Doymaz. 2024. Development of Novel Plasmid based Eukaryotic Model to Investigate Crimean Congo Hemorrhagic Fever Virus. Bezmialem Science vol.12, no.2, pp.164-172.

Doymaz Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Manuscripts in Preparations	1. Aydın B. N., N. S. Çetin., Kaygusuz A., M. Z. Doymaz. 2024. The utility of CRISPR/Cas 9 technology in attenuating apoptotic pressure and boosting the yield of mAb in CHO- K1 cells (Submitted) 2. Pirinçal, A., N. S. Çetin, Sümbül B., H. Daskaya., B. Durdu., M. Z. Doymaz. A case of non-fatal Crimean Congo Hemorrhagic Fever Virus infection : The Role of a balanced cytokine response in the otcome of the clinical disease' Case Report Clinical Infection Diseases, 2024 (Submitted) 3. Bakangil., Ö., E. Karaaslan., S. Hasanoğlu Sayın., S. Keskin., M. Z. Doymaz., In- Depth Characterization of Multicopy Recombinant Hepatitis B Surface Antigen: From Expression to Immune Analysis (Submitted). 4. Keskin., S. T. I. Pavel., R. Sak., F. Bahadori., A. F. Aslan., M. Aktaş., F. Karakeçili., A. Kalkan., A. Özdarendeli., M. Z. Doymaz. 2024. Completed Protection Against Lethal Crimean- Congo Hemorrhagic Fever Virus (CCHFV) Challenge in Mice Afforded by Immunization with Modified mRNA Encoding the Nucleocapsid Protein (NP). eBioMedicine, (Submitted) 5. Güler-Çetin, N. S., E. Karaaslan., M. Kalkan Yazıcı., F. Kaptan., M. Z. Doymaz. 2024. Inactivation of Enveloped RNA and DNA Viruses with Triton-X and Microwave Irradiation, (Submitted)

Doymaz Laboratuvarı

BEZMIALEM VAKIF UNIVERSITY 1845

Presentations & Posters

1. Keskin S., CCHFV'ye karşı NP-ΨmRNA Aşı adayının hücresel ve humoral immün yanıtları: Fare Modelleri ile Değerlendirme. 5. Uluslararası Aşı Bilimi Kongresi Kayseri, Türkiye 16-18 Ekim 2024
2. Doymaz M. Z., Kırım Kongo Kanamalı Ateşi Virüsü Nükleokapsid Proteinin immünolojik Rolü. 5. Uluslararası Aşı Bilimi Kongresi Kayseri, Türkiye 16-18 Ekim 2024
3. Bakangil Ö. ,Doymaz M. Z. Optimization of Hazara Virus Production as a Model Virus in Crimean Congo Hemorrhagic Fever Virus Research 5. Uluslararası Aşı Bilimi Kongresi Kayseri, Türkiye 16-18 Ekim 2024
4. Uluçeşme M. C., Keskin S., Özübek S., Doymaz M. Z., Aktaş M. Identification and antigenicity of the Babesia ovis spherical body protein 4 (SBP4). 11th Tick & Tick-borne Pathogen Conference (TTP.11), Habana, Küba, 1 - 06 Eylül 2024, cilt.1, sa.1, ss.157
5. H. D. Karakuş., B. Durdu., S. Keskin., M.Z. Doymaz., T. Aslan., 33. International Congress of Antimicrobial Chemotherapy (ICC). 3-6 November 2024.

Doymaz Laboratuvarı

BEZMIALEM VAKIF UNIVERSITY 1845

Thesis	1. Sercan Keskin, PhD Thesis, Continuing; 'Immunological characterizations of mRNA based nucleocapsid proteins of CCHFV'. 2. Özlem Bakangil, MSc, Continuing; 'Graduate Student Researcher; 'Stable Expression of Crimean-Congo Hemorrhagic Fever Virus Kelkit Strain Proteins in Eukaryotic Cells'.

Gül Laboratuvarı

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Circadian Clock and Drug Design
Personnel	Technician / Graduate Student Selahattin Aydoğan Doctoral Student Betül Oruçoğlu Graduate Student Hursima İzgiş Graduate Student Ayşenur Çakmak Graduate Student Mustafa Sami Özaydın

Gül Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Projects	Ongoing Projects 1. Understanding the Mechanism of Activity of Small Molecule JET1 Regulating the Circadian Rhythm Amplitude and Its Effects on Jet-Lag (TÜSEB-B-2023-02-35578-PI) 2. Improving the Efficacy of CRY1 Destabilizer Small Molecule M47 that Enhances Apoptosis in p53 Knockout Cells by Fragment Based Optimization Method (TÜSEB-B-2023-02-35805-PI) 3. Understanding the Function of Circadian Clock in Pancreatic Cancer and Examination the Role of CRY Proteins in Pancreatic Cancer (TÜBA-GEBİP-PI) 4. Examining the Circadian Rhythm in Different Pancreatic Cancer Cell Lines with Gain-of-Function p53 Mutations (BAP-2024-0624-PI) 5. Identification of Proteins Interacting with Biotinylated-terpinolene in Mcf7 Cells and Modeling These Interactions (TÜSEB-31728-Researcher) 6. Examining the Effect of Cryptochrome Deletion in Various Pancreatic Cancer Cell Lines with Gain-of-Function p53 Mutations (TÜBA-GEBİP-Researcher)

Projects	<u>Ongoing Projects</u> 7. Discovery of genes linked to sleep disorders, their molecular characterization, and investigation of their roles in disease pathogenesis (TUSEB-B-40691-Researcher) 8. Analyzing the effect of pathogenic SNPs found on the PAS-B and C-terminal oscillator regulatory domains of BMAL1 (Selahattin Aydoğan's Master Thesis) (IU BAP-FYL-2023-40061-PI) 9. Analyzing the effect of pathogenic SNPs found on the bHLH and PAS-A domain of BMAL1 (Hursima İzgiş's Master Thesis) (IU BAP-FYL-2023-40057-PI)

Gül Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Projects	Completed Projects 1. Discovery of a SARS-CoV-2 Inhibitor Using Biosafe SARS-CoV-2 Replicon via Drug Repurposing Method (TUBITAK - 221Z267-PI) 2. Determining the Effect of Pathogenic BMAL1 SNPs on the Circadian Clock Mechanism (IU BAP-FAB-2022-38660-PI) 3. Pharmacokinetics of CLK8 Compound, which Regulates the Function of CLOCK Protein, in Mice (IU BAP-TSA-2023-39301-Researcher) 4. Analyzing the in vivo effects of CLK 8 Molecule (IU BAP-FBA-2022-38487-Researcher) 5. Drug repurposing against Lassa virus proteins by using in silico methods (Handan Şimşek's Master Thesis) (846114-PI) 6. Drug design against SARS-CoV-2 virus via drug repurposing by using in vitro methods (Betül Oruçoğlu's Master Thesis) (FLY-2023-40043-PI)

Projects	Applied Projects 1. Heterologous Expression and Purification of Circadian Clock Proteins in Bacterial Systems (TÜSEB-A4-04-37984-PI) 2. HORIZON-CL6-2024-FARM2FORK-01-2 (SEP-211032420-Researcher) 3. Investigation of the proteins and pathways that chlorhexidine may directly target in human oral tissue cells (TÜSEB-B-40451-Researcher) 4. Virological and Immunological Investigations in Acute and Past Crimean-Congo Hemorrhagic Fever Virus (CCHFV) Infections (NIH-1R01AI184930-01A1-Researcher) 5. Investigation of Hazara virus (HAZV) as a possible surrogate for Crimean-Congo Hemorrhagic Fever Virus (CCHFV) (NIH-1R01AI185116-01A1-Researcher) 6. Discovery of AI-Based Drug Candidate Molecules that Accelerate CRY2 Degradation for the Treatment of Cancer and Circadian Rhythm Disorders (BAP ADP50080 (Boğaziçi University)-Researcher)

Gül Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications	1. Simsek, H., Gul, S. (2024). Discovering Lassa virus nucleoprotein inhibitors via in silico drug repositioning approach. Journal of Biomolecular Structure and Dynamics. 2. Taskin A. C., Kocabay A., Gul S., Sahin G. N., Karahuseyinoglu S., Kavakli I. H., et al. (2024). Boric acid supplementation promotes the development of in vitro-produced mouse embryos by related pluripotent and antioxidant genes. Zygote. 3. Khan S. A., Malik A. N., Velioglu B., Gul S., Kavakli I. H., Lazoglu I. (2024). A novel smart disinfection system using 3D-printed and electrically conductive composite hydrogel. Emergent Materials. 4. Ozcan O., Gul S., Kavakli I. H. (2024). Dynamic regulation of the serine loop by distant mutations reveals allostery in cryptochrome1. Journal of Biomolecular Structure and Dynamics, vol.42, no.19, pp.10417-10428.

Manuscripts Submitted	1) Betül O., İdil Ç., Mehmet T., Mahmut Ç., Cihan A., İ. Halil K., Alper O., Şeref G. 2024. Identification of Patential SARS-CoV-2 Inhibitors Among Widely Used, Well-Tolerated Drugs Through Drug Repurposing and In Vitro Approaches (Under Revision in *Scientific Reports*)

Gül Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Thesis	1. Selahattin Aydoğan, MSc Thesis, 'Analyzing the effect of pathogenic SNPs found on the PAS-B and C-terminal oscillator regulatory domains of BMAL1' (Ongoing) 2. Hursima İzgiş, MSc Thesis, 'Analyzing the effect of pathogenic SNPs found on the bHLH and PAS-A domain of BMAL1' (Ongoing) 3. Handan Şimşek, MSc Thesis, Continuing, 'Production of plasmid based virus-like particles for Crimean-Congo Hemorrhagic Fever Virus' (Completed-2024) 4. Betül Oruçoğlu, MSc, 'Discovery of SARS-CoV-2 3C-like protease (3CLpro) inhibitor by drug repurposing approach using biosafe SARS-CoV-2 Replicon' (Completed-2024)

Awards	1. 3rd Best Flash Talk Award, 2nd International Colloquium on Bioinformatics Learning, Education, and Training (iCOBLET2024) held from November 20th to 2st, 2024 at the University of Doha for Science and Technology, Doha, Qatar.

Hatiboğlu Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Brain Tumor Research Laboratory
Personnel	1. Postdoctoral Fellow Mohammad Haseeb 2. Technician Zeynep Kartal

Projects	Ongoing Projects 1. NOTCH1 genini hedef alan teröpatik mikroRNA'ların Temozolomide dirençli glioblastoma hücre hattında araştırılması -2 BAP/20240610 2. Green synthesis of carbon quantum dots for improved therapeutic potential of temozolomide (tmz) with thymoquinone (tq) against gliobastoma BAP/20240607

Hatiboğlu Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Projects	Completed Projects 1. Investigation of therapeutic microRNAs targeting the NOTCH1 gene in a Temozolomide-resistant glioblastoma cell line. BAP/20221014. 2. In vitro investigation of the role of the kynurenine pathway and NAD in glioblastoma pathogenesis. BAP/20211008.

Hatiboğlu Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications

1. Promising outcome of patients with recurrent glioblastoma after Gamma Knife-based hypofractionated radiotherapy Hatiboglu MA, Akdur K, Sakarcan A, Seyithanoglu MH, Turk HM, Sinclair G, Oztanir MN.. Neurochirurgie. 2024 Jan 10;70(2):101532. doi: 10.1016/j.neuchi.2024.101532.
2. Role of cell-free DNA and extracellular vesicles for diagnosis and surveillance in patients with glioma Karacam B, Elbasan EB, Khan I, Akdur K, Mahfooz S, Cavusoglu M, Cicek Y, Hatiboglu M.A. The Journal of Liquid Biopsy. 2024,Volume 4. Doi:/10.1016/j.jlb.2024.10014
3. Hypofractionated radiation therapy suppresses radioresistance in u87 human glioma cells by inhibiting yap1 and hsp90 proteins Khan I., Mahfooz S., Karacam B., Elbasan E.B., Akdur K., Coban G., Hatiboglu M.A. Curr Radiopharm. 2024 Apr doi:10.2174/0118744710300495240409074900.
4. Prognostic Effect of CDKN2A Homozygous Deletion and Beclin 1 in Isocitrate Dehydrogenase Mutant Glial Tumors Çoban G., Turna S., Şahin N., Günver F., Hatiboğlu M. A., Gücin Z., Elagöz Ş. Neurological Sciences and Neurophysiology, cilt.41, sa.2, ss.70-76, 2024
5. Status Quo in the Liposome-Based Therapeutic Strategies Against Glioblastoma: "Targeting the Tumor and Tumor Microenvironment". Haseeb M, Khan I, Kartal Z, Mahfooz S, Hatiboglu MA International Journal of Molecular Sciences 2024 oct DOI10.3390/ijms252011271
6. Liquid biopsy for CNS lymphoma: CSF exosomes and CSF exosomal miR-15a, miR-21, miR-155, miR-210, and miR-19b are promising biomarkers for diagnosis. Hatiboglu MA, Karacam B, Khan I, Akdur K, Elbasan EB, Mahfooz S, Seyithanoglu MH, Cetin G, Papaker MG, Oztanir MN. Mol Biol Rep. 2024 Oct 3;51(1):1035

Hatiboğlu Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Submitted Manuscripts	1. Haseeb M., Kartal Z., Hatiboglu M.A. 2024. Carbon dot nanoparticle based therapeutic approaches in major neurological disorders. 2. Karacam B, Khan I, Mahfooz S, Akdur K, Hatiboglu MA. 2024. The role of Liquid biopsy in patients treated with Gamma knife radiosurgery for brain metastasis 3. Sadaf Mahfooz, Imran Khan, Elif Burce Elbasan, Busra Karacam, BerreToraman, Mustafa Aziz Hatiboglu. Cyclophosphamide enhances the effect of Altiratinib induced c-MET inhibition in glioblastoma cells. 4. Hasiba Karimi, Sadaf Mahfooz, Imran Khan, Busra Karacam, Kerime Akdur, GuvenGonen, Kardelen Oykü Dagdeviren, Ayten Sakarcan, Merve Cavusoglu, BurceElbasan, Mustafa Aziz Hatiboglu. 2024. Investigating the Role of Biomarkers Using Liquid Biopsy in the Diagnosis of Meningiomas 5. Fatmanur Köktaşoğlu, Mehtap Alim, Ufuk Sarıkaya, Öykü Dağdeviren, Merve Çavuşoğlu, Kerime Akdur, Büşra Karacam, Şahabettin Selek, Mustafa Aziz Hatiboglu. 2024. Characterizing Hormone Secretion Patterns in PitNETs with Metabolomics: Implications for Understanding Tumor Biology

Hatiboğlu Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Posters	1. Karacam B, Punar S, Coban G, Akdur K, Khan I, Ekmekci SS, Hatiboglu MA, Poster presented "Role of NOTCH pathway and related miRNAs in glioma patients and in-vitro effect of miR-34a as a therapeutic approach in TMZ resistance" in EACR 2024 Innovative Cancer Science, 10-13 June 2024, Rotterdam, Netherlands. Molecular Oncology, Volume 18, Supplement 1, June 2024.

Hatiboğlu Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Thesis	1. Büşra Karaçam, PhD Thesis, Continuing, 'Examining the relationship between NOTCH-mediated chemotherapy resistance and microRNAs in glioblastoma and investigating potential treatments ' 2. Berrin Saracoglu, PhD Thesis, Continuing 'A *LIPOsomal* mRNA *VA*ccine for treatment of *G*lioblastoma: Delivery of anti-tumor RIPK-3 mRNA-loaded liposomes via mesenchymal stem cell '.

Khan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Biological data warehousing and applications of data science to the study of immune responses, vaccines, viruses, venom toxins, drug design, and disease biomarkers.
Staff	1. Adjunct PI, Mohammad Asif Khan 2. Research Assistant, Esra Büşra Işık 3. Technician, Ebru Sarsılmaz

Projects	Ongoing Projects 1. Reference Genome Generation for Horse Fly Using Whole Genome Sequencing, 2023 – Present. 2. Characterization of Inserted Exogenous Cassettes to Aspergillus oryzae via NGS analysis and De-novo Assembly. 3. Bioinformatics Grand Challenges Consortium (BGCC). 4. Viral Variome Analyzer

Khan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Projects	Completed Projects 1. DiMA: Protein Sequence Diversity Dynamics Analyser for Viruses, 2024. 2. The Role of the Gut Microbiome in Hematological Cancers, 2024. 3. Fast Sampling of Score-based Models with Cyclical Diffusion Sampling, 2024. 4. A Systematic Bioinformatics Approach for Mapping the Minimal Set of a Viral Peptidome, 2024. 5. MDRepo - an open environment for data warehousing and knowledge discovery from molecular dynamics simulations, 2024.

Khan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications	1. Najihah Hussein, Reena Rajasuriar, Asif M Khan, Yvonne Ai-Lian Lim, Gin Gin Gan. The role of the gut microbiome in hematological cancers. Mol Cancer Res. 2024; 22 (1): 7–20. https://doi.org/10.1158/1541-7786.MCR-23-0080. 2. Asif M Khan, Harpreet Singh, Shoba Ranganathan, Takashi Gojobori, Xin Gao. Editorial on the Research Topic Accelerating Innovation to Meet Biological Challenges: The Role of Bioinformatics. Front. Genet. 2024. 15:1365223. https://doi.org/10.3389/fgene.2024.1365223. 3. Esra Büşra Işık & Onur Serçinoğlu. Unraveling the ligand specificity and promiscuity of the Staphylococcus aureus NorA efflux pump: a computational study. Journal of Biomolecular Structure and Dynamics. 2024. https://doi.org/10.1080/07391102.2024.2326670 4. Karimul Makhtidi, Alhadi Bustamam, Risman Adnan, Hanif Amal Robbani, Wibowo Mangunwardoyo, Mohammad Asif Khan. Fast Sampling of Score-based Models with Cyclical Diffusion Sampling. IEEE Access. 2024; 12, pp. 49578-49589. https://doi.org/10.1109/ACCESS.2024.3365146. 5. Asif M Khan, Esra Büşra Işık, Tin Wee Tan. A global initiative on addressing bioinformatics' grand challenges. Briefings in Bioinformatics. 2024; 25(4): bbae278. https://doi.org/10.1093/bib/bbae278. 6. Li Chuin Chong, Asif M Khan. A Systematic Bioinformatics Approach for Mapping the Minimal Set of a Viral Peptidome. Current Protocols. 2024; 4, e1056. https://doi.org/10.1002/cpz1.1056.

Publications	7. Amitava Roy, Ethan Ward, Illyoung Choi, Michele Cosi, Tony Edgin, Travis S. Hughes, Md. Shafayet Islam, Asif M. Khan, Aakash Kolekar, Mariah Rayl, Isaac Robinson, Paul Sarando, Edwin Skidmore, Tyson L. Swetnam, Mariah Wall, Zhuoyun Xu, Michelle L. Yung, Nirav Merchant, Travis J. Wheeler. MDRepo - an open environment for data warehousing and knowledge discovery from molecular dynamics simulations. Nucleic Acids Research. 2024; gkae1109 https://doi.org/10.1093/nar/gkae1109 8. Ebru Sarsilmaz, Nurul Salwanie Che Wahid, Hilal Hekimoglu, Mohammad Asif Khan, Srilakshmi Srinivasan, Harpreet Singh, N Latha, Shoba Ranganathan, Jyotsna Batra. The 22nd International Conference on Bioinformatics (InCoB 2023) (2024). https://doi.org/10.7490/f1000research.1119839.1. 9. Shan Tharanga, Eyyüb Selim Ünlü, Yongli Hu, Muhammad Farhan Sjaugi, Muhammet A Çelik, Hilal Hekimoğlu, Olivo Miotto, Muhammed Miran Öncel, Asif M Khan. DiMA: sequence diversity dynamics analyser for viruses, Briefings in Bioinformatics, Volume 26, Issue 1, January 2025, bbae607, https://doi.org/10.1093/bib/bbae607

Manuscripts in Preparations	1. Editors-in-Chief – Encyclopedia on Bioinformatics and Computational Biology (The A to Z of Bioinformatics), by Elsevier (Second Edition; 2022-2024) 2. Anusyah Rathakrishnan, Yin-Quan Tang, Nur Atiqah Azhar, Asif M. Khan, Anna Durbin, Yongqing Zhang, Kevin G. Becker, Dennis J Grab. Transcriptional and functional changes to inter-endothelial junctional proteins in response to dengue virus-induced microvascular leakage. Acta Tropica. 2024. [*Manuscript under revision*]. 3. Esra Büşra Işık, Climate Change Impacts on Workplace Health and Safety: Adaptations, Interventions and Responses: Climate Change and Viral Proliferation: Implications for Global Health. 2024.

Khan Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Posters / Oral Talks	1. **Esra Büşra Işık**...and **Asif M. Khan.** Poster presentation. A global initiative on addressing bioinformatics' grand challenges. 1st Asia & Pacific Bioinformatics Joint Conference (APBJC2024). 22-25 October 2024. Okinawa, Japan. 2. Shan Tharanga....and **Asif M Khan**. Poster presentation. DiMA: sequence diversity dynamics analyser for viruses. 1st Asia & Pacific Bioinformatics Joint Conference (APBJC2024). 22-25 October 2024. Okinawa, Japan. 3. **Esra Büşra Işık.** Grand challenges in bioinformatics education and training. The 2nd International Colloquium on Bioinformatics Learning, Education, and Training (iCOBLET2024). 20-21 November 2024. Doha, Qatar. 4. **Mohammad Asif Khan.** Invited Speaker (online), Asia-Pacific Research Platform (APRP) Working Group, 57th Asia Pacific Advanced Network (APAN) Meeting, Bangkok, Thailand, 31 January 2024 5. **Mohammad Asif Khan.** Invited Speaker (online), 7th Nirma Institute of Pharmacy International Conference (NIPiCON2024), Nirma University, India, February 7-9, 2024. 6. **Mohammad Asif Khan.** Invited Panel Member, Middle East Forum on Quality and Safety in Healthcare 2024, Doha, Qatar, 23 to 25 February 2024.

Posters / Oral Talks	7. **Mohammad Asif Khan.** Invited Panel Speaker, Digital Technologies and Computational Literacy for All: Reconceptualizing STEM and TVET for the AI age. STEM-TVET Symposium. University of Doha for Science and Technology. 24 April 2024. 8. **Mohammad Asif Khan.** Invited Speaker (online), Life Science Training Around the Globe: Communities in Teaching and Training, New York, USA, 25 April 2024. 9. **Esra Büşra Işık** and **Mohammad Asif Khan.** Co-Leads, Bioinformatics Education and Training Grand Challenges Working Committee, Global Bioinformatics Education Summit (GBES), New York, USA, 22 May 2024. 10. **Mohammad Asif Khan.** Invited Speaker (online), The GOBLET journey and where are we heading? South Asian Network on Bioinformatics (SANBIX 2024), August 3, 2024. https://bioclues.org/sanbix/ 11. **Mohammad Asif Khan.** Invited Speaker (online), Asia-Pacific Research Platform (APRP) Working Group, 58th Asia Pacific Advanced Network (APAN) Meeting, Islamabad, Pakistan, 28 August 2024. 12. **Mohammad Asif Khan.** Invited Moderator, Joint Special Session for Asia & Pacific Bioinformatics Societies. 1st Asia & Pacific Bioinformatics Joint Conference (APBJC2024). 22-25 October 2024. Okinawa, Japan.

Onat Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Identification of mutations, genes, and pathways causing complex and rare diseases through bioinformatics, genomics, and translational approaches, and the discovery of personalized treatment and drug targets.
Personnel	1. Research Assistant Faruk Üstünel 2. Research Assistant Vildan Saraç 3. PhD Biotechnology, Technician Levise Tenay 4. PhD Biotechnology Sümeyye Cilmeli 5. PhD Biotechnology Büşra Nur Çetin 6. Research Intern Aleyna Çelebi 7. Research Intern Nisa Çelebi

	Dates	Position	Agency	Title
Projects	Under review	Project Leader	INPART	Seeking Novel Targeted Approaches for Genetic Kidney Disease
	2024-2026	Project Leader	TÜSEB 2024-B AN: 40691	Uyku Bozuklukları ile İlişkili Genlerin Keşfi, Moleküler Karakterizasyonu ve Hastalık Patogenezindeki Rollerinin Araştırılması
	2023-2026	Project Leader	TUBITAK 1001 AN: 222S389	Investigation and Molecular Characterization of the Roles of Steap1b, Kcnq5, and Ucp1 Genes Associated with Obesity in Disease Pathogenesis

Onat Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications	1. Onat OE. Exploring CRY1 Protein Residue Associations with Diurnal and Nocturnal Behaviors AcrossVertebrate Species. PBS. 2024; 14(1): 58-106. doi: 10.5455/pbs.20231214080144 2. Sedillo J, Badduke C, Schrodi S, Scaria V, Onat OE, Alfadhel M, Ober C, Wentworth-Sheilds W, Steiner RD, Saba JD. Prevalence estimates of sphingosine phosphate lyase insufficiency syndrome in worldwide and select populations. Genetics in Medicine Open 2024; 2; 100840. doi: 10.1016/j.gimo.2023.100840. 3. Onat OE, Ozcelik T. "Yeni Nesil Dizileme ve Klinikteki Uygulamaları", Chapter name: "Dünyada Ve Türkiyede Genom Projeleri". Güneş Kitabevi, Editor: Caglayan AO, 2024; Edition No:1, Pages 716, ISBN:9789752779778, Turkish Scientific Book, Publication No: 8923310.

Onat Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Manuscripts in Prep.	1. Onat OE, Ustunel F, Akbostanci C, Doganyigit-Revino KE, Sen M, Akbostanci CM. Effects of Essential Tremor on Longevity and Mortality Rates in Families. Manuscript is under review by PlosOne. 2. Esen FN, Onat OE. Common and Rare Variant Association Approaches in Turkish Families with Obesity. Manuscript in preperation. 3. Öz E, Onat OE. Common and Rare Variant Association Approaches in Turkish Families with Polycystic Ovarian Syndrome. Manuscript in preperation. 4. Onat OE, Ustunel F. "Encyclopedia of Bioinformatics and Computational Biology, 2nd Edition", Chapter name: "GeNome Analysis". Elsevier, Section Editor: Asif M. Khan (Book Chapter: In preperation)

Onat Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Posters

1. Tenay L, Onat OE. 'In Silico Characterization of HTR1D Missense Mutations in Obesity' The International Symposium on Health Informatics and Bioinformatics (HIBIT), Bezmialem Vakif University, İstanbul, Turkiye, 18-20 December 2024.
2. Üstünel F, Onat OE. 'Evolutionary Insights into the CRY1 Gene and Sleep Phenotypes: Identifying Conserved Regions and SNP Hotspots across 392 Mammalian Species' The International Symposium on Health Informatics and Bioinformatics (HIBIT), Bezmialem Vakif University, İstanbul, Turkiye, 18-20 December 2024.
3. Dilek YE, Tenay L, Onat OE, Bayram-Akçapınar G. 'Structural Insights into Obesity-Associated STEAP1B Variants Using Molecular Dynamics Simulations' The International Symposium on Health Informatics and Bioinformatics (HIBIT), Bezmialem Vakif University, İstanbul, Turkiye, 18-20 December 2024.
4. Şahin NS, Onat OE, Durmuş A, Çelik A, Özcan O. 'Effects of Bariatric Surgery on Body Composition and Anthropometric Measurements in the Early Postoperative Period' Uluslararası 4.Obezite Cerrahisi ve Diyetisyenliği Kongresi, İstanbul, Turkiye, 16-18 May 2024

Onat Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Invited Talks	1. “30th Anniversary of the Discovery of Leptin”, Symposium on Leptin and Metabolism, Bezmialem Vakif University 2024, Istanbul, Turkiye 2. "Genomic Projects in the World and Turkey." II. Genesis Summit, Halic University Genetics Club, 2024, Istanbul, Turkiye

Thesis

M.Sc. Theses

1. Fatma Nisa Esen (2024), “Common and rare variant association approaches in Turkish families with obesity”, Acibadem University, Institute of Health Sciences, Department of Biostatistics and Bioinformatics
2. Nazlı Sultan Şahin (2024) “Effects of Bariatric Surgery on Anthropometric Measurements and Serum Levels of Isthmin-1, Ghrelin, Adiponectin, and Leptin in Obese Patients” Hatay Mustafa Kemal University, Institute of Health Sciences, Department of Molecular Biochemistry and Genetics.

Thesis	Ph.D. Theses 1. Faruk Ustunel (in progress) “Discovery of Therapeutic Targets in Circadian Rhythm Disorders Using Omics Data and Machine Learning” Bezmialem Vakif University, Intitute of Health Sciences, Department of Drug Discovery and Development. 2. Levise Tenay (in progress), “to be determined” Bezmialem Vakif University, Intitute of Health Sciences, Departmen of Biotechnology 3. Sümeyye Cilmeli (in progress), “to be determined” Bezmialem Vakif University, Intitute of Health Sciences, Departmen of Biotechnology 4. Büşra Nur Çetin (in progress), “to be determined” Bezmialem Vakif University, Intitute of Health Sciences, Departmen of Biotechnology

Rafiqi Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Ecological Evolutionary Developmental Biology and Endosymbiosis
Members	1. Postdoctoral Fellow Mauricio Ernesto Alarcón Álvarez 2. Research Assistant/ PhD student: Nihan Sultan Milat 3. Technician/ PhD student: Sevim Nur Akyuz 4. Research Assistant/ PhD student: Birgul Çolak-Al 5. Tübitak PhD student: Zelal Ozgur-Durmuş 6. Animal care technician: Elif Kurt

Ongoing Projects

Title	Source of funding	Number	Budget in TL	Status	Lead Researcher
Understanding the Emergence of Cells Housing Endosymbionts using Leafhoppers	TUBİTAK 1001	123Z774	1,183,400	Awarded	Mauricio Ernesto Alarcón Álvarez
Investigating interactions between multiple gene regulatory networks during ant development	BAVU-BAP	20240913	49,031	Awarded	Abdul Matteen Rafiqi
Genome editing of Hox gene region by CRISPR/Cas9 system in ants.	BAVU-BAP	20240914	49,608	Awarded	Abdul Matteen Rafiqi
Use of transcriptome to study the effects of antibiotics on the development of the leafhopper, Anaceratagallia ribauti (Hemiptera: Cicadellidae)	BAVU-BAP	20240912	49,300	Awarded	Abdul Matteen Rafiqi

Completed Projects

Title	Source of funding	Number	Amount in TL	Lead Researcher
The Developmental Genetics of Obligate Endosymbiosis and Its Effect on the Evolution of Insects	Tübitak 2247-A	120C157	2,289,800	Ab. Matteen Rafiqi
The role of endosymbionts in the developmental genetic networks of leafhoppers	Canon Foundation	Not provided	Accommodation and daily expenditure support to the researcher	Priscila Gomez-Polo
Mechanism of segregation of endosymbiont between midgut epithelium and gonad	BVU-BAP	20200822	22,218	Ab. Matteen Rafiqi

Rafiqi Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications	1. Evolution of genes and proteins, and their gain or loss of function, Chapter 1108 (2024). Encyclopedia of Bioinformatics and Computational Biology, 2nd Edition, Elsevier. Rafiqi AM, Alarcon MEA, Milat NS, Colak-Al B, Akyuz S. 2. From Egg to Adult: A Developmental Table of the Ant Monomorium pharaonis (2024). Arjuna Rajakumar, Luigi Pontieri, Ruyan Li, Rasmus Stenbak Larsen, Angelly Vásquez-Correa, Johanne K. L. Frandsen, Ab Matteen Rafiqi, Guojie Zhang, Ehab Abouheif. Journal of Experimental Zoology Part B 25 November https://doi.org/10.1002/jez.b.23278 3. Çağıl, F. Z., Ak, K., Rafiqi, A. M., Saraçoğlu, A., *et al.* (2024). Determination of Early Diagnostic Biomarkers of Renal Dysfunction After Cardiopulmonary Bypass: miR-21 and miR10a Mediated Postoperative Inflammation. Clinical and Experimental Health Sciences, 14(1), 245-252. https://doi.org/10.33808/clinexphealthsci.1222499
Manuscripts in preparation	1. A developmental table for the Florida Carpenter Ant Camponotus floridanus: a characterization of Embryonic, Larval and Pupal Development (in preparation). Travis Chen, Ab. Matteen Rafiqi, Arjuna Rajakumar, Tom Lamouret, Nihan Sultan Milat, Benjamin A. Fung, Rajendhran Rajakumar, Erik Plante, and Ehab Abouheif. Journal of Experimental Zoology 2. The transcriptome of *Anaceratagallia ribauti*. (submitted) European Journal of Biology 3. Evolutionary novelty through regulation of cell fusion in *Camponotus floridanus*. (in preparation) Zelal Özgür Durmuş, Nihan Sultan Milat, Ab Matteen Rafiqi.

Conference Presentations	1. Durmuş ZÖ, Rafiqi AM. Beyond Modern Synthesis. Ecology and Evolutionary Biology Symposium, Çanakkale, July 23-25, 2024 2. Rafiqi AM. Evolutionary Change Through Developmental Endosymbiosis. Ecology and Evolutionary Biology Symposium, Çanakkale, July 23-25, 2024

Rafiqi Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Posters	1. Milat NS, Rafiqi AM. Progressive Cellularization Influencing DV Axis Specification in Ants. European Evolutionary Developmental Biology (EED), Helsinki, Finland, June 25-28, 2024 2. Çolak-Al B, Rafiqi AM. The Evolving Regulation of Bithorax Complex in Ants. European Evolutionary Developmental Biology (EED), Helsinki, Finland, June 25-28, 2024 3. Durmuş ZÖ, Rafiqi AM. The origin of the new cell carrying endosymbionts. European Evolutionary Developmental Biology (EED), Helsinki, Finland, June 25-28, 2024 4. Milat NS, Rafiqi AM. Analysis of BMP Signaling in Early Development of an Ant that Houses Cellular Endosymbionts. Ecology and Evolutionary Biology Symposium, Çanakkale, July 23-25, 2024 5. Çolak-Al B, Rafiqi AM. The Evolving Regulation of Bithorax Complex in Ants. Ecology and Evolutionary Biology Symposium, Çanakkale, July 23-25, 2024 6. Akyuz SN, Rafiqi AM, Anterior Determination in the Ant Embryos, Ecology and Evolutionary Biology Symposium, Çanakkale, July 23-25, 2024

Uysal Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Research Area	Protein and microbial engineering, creating synthetic antibodies using phage display technologies for pharmaceutical applications
Personnel	Research Assistant Elif KARAMAN

Projects	Ongoing Projects 1. Development of biomarkers and advanced technology pharmaceuticals for monitoring and treating inflammasome-mediated autoinflammatory diseases (TUBITAK 1004-20AG044)

Projects

Completed Projects

1. BAP, 'Production and purification of fibrinolytic Lumbrokinase enzyme in filamentous fungi *Aspergillus oryzae*'. Project No: 20220602. Budget: 22.499,53 TL, 2022-2023.
2. BAP, 'Production and purification of the fibrinolytic enzyme Nattokinase *in Aspergillus oryzae*'. Project No: 20220604. Budget: 22.499,53 TL, 2022-2023
3. Expression, purification and determination of antioxidant capacity of the bioactive peptide Lunasin in *Aspergillus oryzae* (BVU BAP-20220404)

Uysal Lab

BEZMIALEM VAKIF UNIVERSITY 1845

Publications	1. Karaman E., Albayrak C. & Uysal S. (2024). Investigating the Antioxidant Capacity of Lunasin Expressed in *Aspergillus oryzae*. Eur J Biol; 83(1): 67–76. 2. Karaman, E. & Uysal, S. (2024). *Aspergillus oryzae* as a host for SARS-CoV-2 RBD and NTD expression. Biotech Studies, 33(2), 9-20.

Posters	1. Karaman E. & Uysal S. (2024). Utilizing Aspergillus oryzae for Expression of SARS-CoV-2 Spike Protein Domains: Insights into COVID-19 Research, International Conference on Engineering, Natural Sciences, and Technological Developments (ICENSTED 2024), 19-21 Temmuz 2024, Balıkesir. 2. Karaman E. & Uysal S. (2024). Expression of bioactive peptide Lunasin in Aspergillus oryzae: antioxidant properties and biotechnological prospects, 6. International Cappadocia Scientific Research Congress, 10-12 Ağustos 2024, Göreme.

Follow Up -2023 SAB Meeting

BEZMIALEM VAKIF UNIVERSITY 1845

- Housing for graduate students and post-doctoral fellows continues to be on the agenda
- Increased engagement with other institutions-Invited speakers from fellow institutions
- Increased engagement within the Institute - seminars, journal clubs, bi-weekly faculty meetings, happy hours
- Faculty hirings and new labs,

Scientific Advisory Board

BEZMIALEM VAKIF UNIVERSITY 1845

Adolfo García-Sastre Ph.D.
Professor, Department of Microbiology Fishberg Professor, Department of Medicine, Division of Infectious Diseases Director, Global Health and Emerging Pathogens Institute Icahn School of Medicine at Mount Sinai, Member of American Academy of Sciences

Ahmet Gül M. D.
Professor of Internal Medicine
Istanbul University Medical School
Member of Turkish Academy of Sciences

Qutayba Hamid M. D.
Professor of Medicine,
Vice Chancellor for Medical and Health Sciences Colleges, and Dean of College
of Medicine, University of Sharjah

Javad Parvizi M. D.
Professor of Orthopedics
Vice Chairman of Research,
Thomas Jefferson University Hospital Director of Clinical Research, Rothman Orthopaedic Institute

Barry T. Rouse Ph.D.
Lindsay Young Distinguished Professor of Microbiology
College of Arts & Sciences and Veterinary Medicine

BEZM-İ ÂLEM
1845

Thanks/Teşekkürler