

## Asst. Prof. OFCAN OFLAZ

### Personal Information

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### International Researcher IDs

ScholarID: dzAwPdoAAAAJ

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### Biography

Dr. Ofcan Of laz is a faculty member at Lokman Hekim University's Faculty of Medicine, specializing in Medical Biology and Genetics. His research spans molecular biology, virology, and medical genetics, with a focus on bioinformatics and protein engineering. Through his work, Dr. Of laz has advanced knowledge in hereditary genetics and the application of computational tools in biological modeling. He has contributed to numerous publications, which are widely cited for their impact on molecular diagnostics and targeted therapies. His expertise includes homology modeling, protein interactions, rare disease and the application of bioinformatics in personalized medicine, significantly shaping research in infectious diseases and medical diagnostics.

### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyoloji A.B.D., Turkey 2017 - 2023

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji (YI) (Tezli), Turkey 2014 - 2017

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, Turkey 2010 - 2014

### Dissertations

Doctorate, Researching of Resistance To Etravirine In Some HIV-1 Low-Level Viremia Strains By In-Silico And In-Vitro Methods, Hacettepe University, Fen Bilimleri Enstitüsü, Biyoloji A.B.D., 2023

Postgraduate, AVPR2 proteininin homoloji temelli üç boyutlu yapı modellemesi, Hacettepe University, Fen Bilimleri Enstitüsü, Biyoloji A.B.D., 2017

### Research Areas

Medical Biology, Medical Genetics, Structural Biology, Bioinformatics, Biological Modelling, Biological Databases, Genetic Disorders, Protein Engineering

### Academic Titles / Tasks

Lecturer, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2020 - Continues

## Academic and Administrative Experience

YAZILIM İŞLERİ KOMİSYON ÜYESİ, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues

MEZUNİYET ÖNCESİ EĞİTİM SEMİNERLERİ KOORDİNATÖRÜ, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues

Simülasyon Merkezi Kurulu Üyesi, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues  
Tıp Fakültesi Seçmeli Dersler Kurulu Üyesi, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues

Ölçme Değerlendirme Kurulu Üyesi, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues

TIP FAKÜLTESİ İNTERNET SİTESİ SORUMLUSU, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2021 - Continues

Phase Assistant Coordinator, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2021 - 2023

Project Specialist of Scientific Research Projects Coordinatorship, Lokman Hekim University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2020 - 2022

## Courses

Virüslerle Savaş, Undergraduate, 2023 - 2024, 2021 - 2022

Medical Biology and Genetics, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021

Genetic Diseases and Counseling, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Etkili Sunum Teknikleri, Undergraduate, 2022 - 2023

Social Media and Popular Science, Undergraduate, 2022 - 2023, 2021 - 2022

Genden Proteine Moleküler Yolculuk, Undergraduate, 2022 - 2023

Akademik Poster ve Sözlü Sunum Hazırlama, Undergraduate, 2021 - 2022

Eczacılıkta In-silico Yaklaşım, Undergraduate, 2021 - 2022

Social Media Use in Health, Undergraduate, 2021 - 2022

Molecular Clue of Diagnosis, Undergraduate, 2021 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Researching of resistance to etravirine in some HIV-1 low-level viremia strains by in-silico methods**  
Ofaz O., Mergen H., Demir T.  
TURKISH JOURNAL OF BIOCHEMISTRY, vol.1, no.1, pp.1-6, 2023 (SCI-Expanded)
- II. **Bioinformatics analysis of wild-type ParC and S79F, S79Y mutations in Streptococcus pneumoniae**  
Akgün Karapınar D. B., Ofaz O.  
EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES, vol.27, no.15, pp.6931-6938, 2023 (SCI-Expanded)
- III. **Exercise and COVID-19: exercise intensity reassures immunological benefits of post-COVID-19 condition.**  
Thirupathi A., Yong W., Ofaz O., Agascioglu E., Gu Y.  
Frontiers in physiology, vol.14, pp.1036925, 2023 (SCI-Expanded)
- IV. **Toxic effects of Aroclor 1254 on rat liver and modifying roles of selenium**  
Balcı Özyurt A., ERKEKOĞLU Ü. P., ZEYBEK N. D., Aşçı A., Yaman Ü., OFLAZ O., Kızılgün M., İşcan E., Batur T., Öztürk M., et al.  
International Journal of Environmental Health Research, vol.33, no.12, pp.1289-1304, 2023 (SCI-Expanded)
- V. **Renal changes and apoptosis caused by subacute exposure to Aroclor 1254 in selenium-deficient and selenium-supplemented rats**

ZEYBEK N. D., SUR Ü., Oflaz O., ERKEKOĞLU Ü. P., Balci A., ÖZKEMAHLI K. G., Asci A., Kizilgun M., Edebal O. H., Kocer-Gumusel B.

Arhiv za Higijenu Rada i Toksikologiju, vol.71, no.2, pp.110-120, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Effect of Aerobic Exercise on Deteriorating VO<sub>2</sub>max and Diminished Mitochondrial Biogenesis During Aging**  
AĞAŞCIOĞLU E. A., OFLAZ O.  
PAKISTAN JOURNAL OF MEDICAL & HEALTH SCIENCES, vol.15, no.12, pp.3462-3466, 2021 (ESCI)
- II. **The Relationship of the HFE Gene H63A Mutant Type with Aerobic Exercise and A Bioinformatics Analysis**  
Oflaz O., Ağaşcioğlu E. A.  
Journal of Athletic Performance and Nutrition, vol.8, no.1, pp.15-23, 2021 (Peer-Reviewed Journal)
- III. **The Importance of ACTN3 R577X Polymorphism in Athletic Performance and Modeling of R577X Mutant Type and Wild Type ACTN3 Protein by Bioinformatics Analysis**  
Oflaz O., Altıntaş N.  
Cumhuriyet Üniversitesi Sağlık Bilimleri Enstitüsü Dergisi / Journal of Cumhuriyet University Health Sciences Institute, vol.6, no.1, pp.17-22, 2021 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Mechanism of HIV-1 Reverse Transcriptase Inhibitors**  
Oflaz O.  
in: Current Researches in Health Sciences-IV, Canan Demir, İsmet Meydan, Editor, Özgür Yayın-Dağıtım, Gaziantep, pp.1-13, 2023
- II. **HOMOLOGY MODELLİNG**  
Oflaz O.  
in: TEMEL TIP BİLİMLERİNDE GÜNCEL YAKLAŞIMLAR, Doç. Dr. Nihayet Bayraktar, Prof. Dr. Mehmet Bayraktar, Editor, İksad Yayınevi, Ankara, pp.203-219, 2021
- III. **NUTRİTIONAL GENOMİCS**  
Oflaz O., Tengiz T.  
in: TEMEL TIP BİLİMLERİNDE GÜNCEL YAKLAŞIMLAR, Doç. Dr. Nihayet Bayraktar, Prof. Dr. Mehmet Bayraktar, Editor, İksad Yayınevi, Ankara, pp.175-202, 2021

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Synthesis and The Biological Effect Profiles of New Benzimidazole Derivative**  
ŞEN H. T., OFLAZ O., KILCIGİL G.  
9th International BAU Drug Design Congress, İstanbul, Turkey, 29 November - 02 December 2023
- II. **ANALYZING OF EFAVIRENZ RESISTANCE OF SOME REVERSE TRANSCRIPTASE MUTATIONS BY IN-SILICO METHOD**  
Oflaz O., Şen H. T.  
8th International BAU Drug Design Congress, İstanbul, Turkey, 15 - 17 December 2022
- III. **Creation of Homology Models of Some HIV-1 Integrase Mutations and Investigation of Their Relationship with Cabotegravir by In Silico Methods**  
Şen H. T., Oflaz O., Çelik İ.  
8th International BAU Drug Design Congress, İstanbul, Turkey, 15 - 17 December 2022, pp.1

- IV. **MARİBAVİR DİRENCİNE YOL AÇAN H411Y MUTASYONUNUN IN-SILICO ANALİZİ**  
Şen H. T., Oflaz O.  
III. Lokman Hekim Eczacılık Günleri Pharmacopolium ile 21. Yüzyılda Eczacılık, Ankara, Turkey, 10 - 12 May 2022, pp.20
- V. **The Cellular Response of The Oxygen Sensitive Soleus Muscle to Acute and Chronic Hypoxia via HIF1 $\alpha$ , HSP90, and nNOS**  
Oflaz O., Ağaşcıođlu E. A.  
VIII. International Congress Of Molecular Medicine, İstanbul, Turkey, 9 - 12 November 2021
- VI. **Amprenavir'in Covid-19 ve HIV Hedef Bölgelerinin Karşılaştırmalı Biyoinformatik Analizi**  
Oflaz O.  
3. Ulusal Viroloji Günleri, İstanbul, Turkey, 19 - 20 June 2021, pp.137
- VII. **Mycobacterium tuberculosis Yabarı Tıp ve Bazı Mutant rpoB Enzimlerinin Biyoinformatik Analizleri.**  
Oflaz O., Erikçi A.  
Türk Mikrobiyoloji Cemiyeti Çevrim İçi Mikrobiyoloji Sempozyumu, İstanbul, Turkey, 25 December 2020
- VIII. **Mycobacterium tuberculosis Ser531Leu Mutant ve Yabarı Tıp rpoB Enzimlerinin Biyoinformatik Analizleri.**  
OFLAZ O., Altuntaş S., ERİKÇİ A.  
9. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Turkey, 19 December 2020
- IX. **Protective role of dietary selenium on toxic effects of Aroclor 1254 in brain tissues of rats**  
Oflaz O., Sur Ü., Gümüşel B., Zeybek N. D., Balcı Özyurt A., Erkekođlu Ü. P.  
9th Congress of the Turkish Society of Toxicology with the participation of the Hellenic Society of Toxicology, İzmir, Turkey, 21 - 24 October 2015, pp.44

## Supported Projects

Oflaz O., Turan B., Project Supported by Higher Education Institutions, An investigation on protective role of a natural supplement including magnolol and honokiol on the insufficient heart function by using electrophysiological and biochemical-molecular techniques, 2022 - 2024

Atıcı Y., Özgüven Ş. V., Yıldırımka M. M., Oflaz O., Göктаş G., Üner S., Turan B., Türk C., Sađırođlu E., Göктаş T., et al., Project Supported by Higher Education Institutions, İnsülin direnci gibi toplumları yakından ilgilendiren sendromların altında yatan mekanizmaların incelenmesinde temel tıp araştırmaları ve uygulamaları: Preklinik araştırmaların yapılandırılmasında elektrofizyolojik, histolojik, biyokimyasal ve moleküler tekniklerin kullanılması, 2021 - 2024

Erikçi A., Oflaz O., Project Supported by Higher Education Institutions, Mycobacterium tuberculosis Mutant ve Yabarı Tıp rpoB Enzimlerinin Biyoinformatik Analizleri , 2020 - 2021

## Tasks In Event Organizations

Öz F., Dursun A. B., Belen H. M., Oflaz O., İletişim ve Yaklaşım Becerileri Çalıştayı, Workshop Organization, Ankara, Turkey, Ocak 2023

## Metrics

Publication: 20  
Citation (WoS): 2  
Citation (Scopus): 6  
H-Index (WoS): 1  
H-Index (Scopus): 1