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**CURRICULUM VITAE**

**Özlem Doğan, MD**

**Date of Birth:** 18.04.1983

**Current Position:** Assistant Professor- Koç University, School of Medicine (Since July 2019)

Affiliated Faculty Member- Koc University-Is Bank Center for Infectious Diseases (KUİSCID)

Director - Mycology Laboratory, Microbiology Research Laboratory

Laboratory Manager- Biosafety Level 3 Laboratory

**Address:** Koç University Hospital, Davutpaşa Caddesi No:4 34010 Topkapı, İstanbul, Turkey

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**Education and Profession**

2001-2006: - Bachelor: Baskent University, Faculty of Medicine, Ankara (2th graduation degree)

2006-2007: Internship: Baskent University Ankara & Adana Hospitals

2007-2012: Residency - Research Assistant: Hacettepe University, Medical Microbiology Department

2013-2015: Fellowship (1th degree in national fellowship examination)

Hacettepe University, Medical Microbiology Department, Medical Mycology Unit

2015-2017: Mycology / Microbiology Specialist: Compulsory Medical Service

Director - Quality Department of Medical Microbiology Laboratory

Director - Sterile and Non-Sterile Clinical Laboratories, Haydarpasa Numune Research and Teaching Hospital, Istanbul

Supervisor - Mycology Department North Anatolian Public Hospitals Union, Central Laboratory, Istanbul

2018-2019: Instructor - Koç University, School of Medicine

**Journal Publications**

1. Bilici K, Atac N, Muti A, Baylam I, **Dogan O**, Sennaroglu A, et al. Broad spectrum antibacterial photodynamic and photothermal therapy achieved with indocyanine green loaded SPIONs under near infrared irradiation. Biomaterials Science. 2020
2. Gulmez D, Alp S, Gursoy G, Ayaz CM, **Dogan O**, Arikan-Akdagli S, et al. Mixed fungaemia: an 18-year report from a tertiary-care university hospital and a systematic review. Clin Microbiol Infect. 2020;26(7):833-41.
3. **Dogan O**, Gulmez D, Arikan-Akdagli S. Phenotypic and Genotypic Evaluation of Azole Resistance in Aspergillus fumigatus Isolates from Clinical and Environmental Specimens. Mikrobiyol Bul 2020;54(2):291-305/doi: 10.5578/mb.69024
4. Emiralioglu N, Dogru D, **Dogan O**, Gulmez D, Akdagli SA, Polat SE, et al. Diverse clinical characteristics of Aspergillus growth in patients with cystic fibrosis. Turk J Pediatr. 2020;62(4):560-8.
5. **Dogan O**, Yeşilkaya A, Menekşe Ş, Güler Ö, Karakoç Ç, Çınar G, Kapmaz M, Aydın M, Keske Ş, Şahin S, Hacıseyitoğlu D, Yalçın D, Tekin S, Ataç N, Albayrak Ö, Aksu ED, Can F, Ergönül Ö. The Effect of initial antifungal therapy on fatality among the patients with Blood Stream Infections with different Candida species and resistance to antifungal agents: A multicenter observational study of the Turkish Fungal Infections Study Group. Int J Antimicrob Agents. 2020 Apr 23:105992. doi: 10.1016/j.ijantimicag.2020.105992.
6. Vatansever C, Menekse S, **Dogan O**, Gucer LS, Ozer B, Ergonul O, et al. Co-existence of OXA-48 and NDM-1 in colistin resistant Pseudomonas aeruginosa ST235. Emerg Microbes Infect. 2020;9(1):152-4.
7. Arıkan-Akdagli S, Gulmez D, **Dogan O,** Çerikçioglu N, Doluca-Dereli M, Birinci A, Yıldıran ST, Ener B, Öz Y, Metin DY, Kalkancı A, Koç N, Erturan Z, Fındık D. First multicenter report of in vitro resistance rates in candidemia isolates in Turkey. Journal of Global Antimicrobial Resistance.2019; 18: 230-234 Doi: 10.1016/j.jgar.2019.04.
8. **Dogan O**, Tunckanat F, Cinel G, Sener B, Ozcelik HU, Yalcin EE, et al. [Investigation of role of anaerobic bacteria in cystic fibrosis patients]. Tuberk Toraks. 2019;67(3):151-61.
9. Ozer B, Vatansever C, **Dogan O**, Keske S, Ergonul O, Can F. Biofilm Formation of Acinetobacter baumannii Under in vitro and in vivo Colistin Exposure. Infect Dis Clin Microbiol 2019; 1: 26-33. Doi: 10.5152/idcm.2019.19004
10. Gulmez D, **Dogan O**, Boral B, Dogen A, İlkit M, De Hoog S, Arıkan- Akdagli S. In-Vitro Activities of Antifungal Drugs Against Enviromental Exophiala isolates and review of the literature. Mycoses. 2018. 61(8):561-569 Doi: 10.1111/myc.12779.
11. **Dogan O**, Gulmez D, Arıkan-Akdagli S. A Fast-Preliminary Identification Test in Fungemia: Evaluation of Germ Tube Test Directly from Positive Blood Culture ANKEM Journal 2016;30(3):102-108 doi: 10.5222/ankem.2016.102
12. **Dogan O**, Inkaya AC, Gulmez D, Uzun O. Akova M, Arıkan-Akdagli S. Evaluation of PNA-FISH Method for Direct Identification of Candida Species in Blood Culture Samples and Its Potential Impact on Guidance of Antifungal Therapy. Mikrobiyoloji Bülteni*.* 2016; 50(4):580-589, doi: 10.5578/mb.27948
13. Macin S, Inkaya AC, **Dogan O,** Bozkurt G, Gocmen R, Sardan-Çetinkata Y, Akyon Y. Mastoiditis, Brain Abscess and Sinus Thrombosis As Complicaitons of Chronic Otitis Media: A Case Report.Jundishapur J Microbiol. 2017 ; 10(2):e41352. doi: 10.5812/jjm.41352.
14. Aydin G, **Dogan-Aycik O**, Yigit G, Senel F, Uzun MA. Adaleti R, Aksaray S. A Rare Cause of Peritonitis, Aggregatibacter aphrophilus. Journal of Turkish Society for Microbiology. 2015; 45(2):92-95, 2015 doi:10.5222/TMCD.2015.092
15. Takci S, Gulmez D, Yigit S, **Dogan O**, Hascelik G. Container type and bactericidal activity of human milk during refrigerated storage. Journal of human lactation. 2013;29(3):406-11
16. Takci S, Gulmez D, Yigit S, **Dogan O,** Dik K, Hascelik G. Effects of freezing on the bactericidal activity of human milk. Journal of pediatric gastroenterology and nutrition. 2012;55(2):146-9
17. **Dogan O,** Gulmez D, Hascelik G. Effect of new breakpoints proposed by Clinical and Laboratory Standards Institute in 2008 for evaluating penicillin resistance of Streptococcus pneumoniae in a Turkish University Hospital. Microb Drug Resist. 2010;16(1):39-41.

**Book Chapters**

**Dogan O**, Arıkan-Akdaglı S. Enfeksiyon Hastalıkları ve Mikrobiyolojisi, Bölüm adı: (Candida türlerinin neden olduğu deri enfeksiyonları) (2017). Nobel Tıp Kitapevleri, Editör: Topçu Ayşe Willke, Söyletir Güner, Doğanay Mehmet, Basım sayısı:4, Sayfa Sayısı 4, ISBN:978-605335-265-5, Türkçe (Bilimsel Kitap), (Yayın No: 4121785)

**Research Projects (Ongoing)**

Principle Investigator

* Impact of virulence factors and genotypic characterization of Candida species isolated from patients with Candidemia on mortality and clinical outcome

Turkish Society of Clinical Microbiology and Infectious Diseases-Turkish Fungal Infections Study Group

Co-investigator (funded by TUBITAK)

* New therapy approach against E.coli ST131 infection: Nanoparticle based targeted antimicrobial agents

Supporting by TUBİTAK, 1001-Scientific and Technological Research Projects Funding Program, Still continues, 01.12.2018 - 01.11.2021.

Principle Investigator: Prof. Dr. Füsun Can

* Metagenomic and transcriptomic analysis of colistin resistance in gram negative pathogens and adaptation of colistin resistance in tolerome to resistome progression

Accepted (August 2019) for TUBİTAK, 1001 - Scientific and Technological Research Projects Funding Program

Principle Investigator: Prof. Dr. Füsun Can

* The interaction between vaginal microbiota and mycobiota with cervical length and preterm birth risk.

Collaboration with Koç University School of Medicine, Obstetrics & Gynecology Department

Accepted (August 2019) for TUBİTAK, 1001 - Scientific and Technological Research Projects Funding Program

Principle Investigator: Assoc. Prof. Ebru Çelik

Co-investigator

* Antibiotic De-escalation Opportunities and Predictors of Fatality in Gram-Negative

Co-workers: Prof. Dr. Önder Ergönül, Prof. Dr. Füsun Can, Dr. Şiran Keske, Dr. Mahir Kapmaz, Dr. Süda Tekin

**Research Projects (during residency and compulsory service)**

* Evaluation of the Importance of Anaerobic Bacteria in Patients with Cystic fibrosis. Hacettepe University Faculty of Medicine, Thesis in Medical Microbiology, Ankara, 2012.

Supported by Hacettepe University Scientific Research Unit (Project no: 011.D07.101.011)

Supervisor: Prof. Dr. Ferda Tunçkanat

* Evaluation of Azole Resistance in Aspergillus Fumigatus Strains, Isolated from Environmental and Clinical Samples. Hacettepe University Faculty of Medicine, Thesis in Medical Mycology, Ankara, 2014

Supported by Hacettepe University Scientific Research Unit (Project no: 2088.2014)

Supervisor: Prof. Dr. Sevtap Arıkan-Akdağlı

**Funded Projects (during residency and compulsory service)**

* Evaluation of Azole Resistance in Aspergillus Fumigatus Strains, Isolated from Environmental and Clinical Samples. Hacettepe University Faculty of Medicine, Thesis in Medical Mycology, Ankara, 2014

Supported by Hacettepe University Scientific Research Unit (Project no: 2088.2014)

Supervisor: Prof. Dr. Sevtap Arıkan-Akdağlı

* Evaluation of the Importance of Anaerobic Bacteria in Patients with Cystic fibrosis. Hacettepe University Faculty of Medicine, Thesis in Medical Microbiology, Ankara, 2012.

Supported by Hacettepe University Scientific Research Unit (Project no: 011.D07.101.011)

**Scientific presentations**

1. **Dogan O**, Atac N, Vatansever C, Albayrak O, Sahin EO., Kilicoglu KB, Demiray A, Ergonul O. Gonen M, Can F. Yersiniabactin as a Promoter of Mortality of Infections Caused by Colistin-Resistant Klebsiella pneumoniae ST101. *29th European Congress of Clinical Microbiology & Infectious Diseases*, p1478, 13 - 16 April 2019, Amsterdam, Netherlands.

2. **Dogan O**, Menekse S, Yesilkaya A, Karakoc C, Atac N, Albayrak O, Tekin S, Keske S, Aydın M, Yalçin D, Aksu ED, Can F, Ergonul O. Predictors of fatality among the patients with blood stream infections with different Candida species and resistance to antifungal agents: a multicenter prospective observational study of the Turkish Fungal Infection Study Group. *29th European Congress of Clinical Microbiology & Infectious Diseases,* p2237, 13 - 16 April 2019, Amsterdam, Netherlands.

3. Albayrak O, Atac N, Vatansever C, Ozer B, **Dogan O**, Kılıcoglu KB, Demiray A, Sahin EO, Can F. Yersiniabactin Siderophore on Survival of High-Risk Clone of Klebsiella pneumoniae after Phagocytosis and NETosis. *13rd World Immune Regulation*. April 2019, Davos

4. Kapmaz M, Keske S, Tekin S, **Dogan O**, Dikenelli BE, Atac N, Vatansever C, Albayrak O, Akbulut Z, Madran B, Donmez EH, Ozer B, Aksu DE, Baskurt D, Berkkan M, Bakır OV, Gonen M, Can F, Ergonul O. Antibiotic de-escalation opportunities and predictors of fatality in Gram-negative bloodstream infections in Turkey. *29th European Congress of Clinical Microbiology & Infectious Diseases*, o0877, 13 - 16 April 2019, Amsterdam, Netherlands.

5. Atac N, Albayrak O, Ozer B, Vatansever C, **Dogan O**, Tekin S, Can F, Ergonul O Comparison of two different biofilm assessment methods in Candida parapsilosis candidemia isolates, *XX. KLIMIK Congress*. March 2019, Antalya, Turkey

6. Vatansever C, Menekse S, Dogan O, Gucer L, Ozer B, Ergonul O, Can F. An emerging threat: colistin resistance in high-risk clone of P. aeruginosa. 29th European Congress of *Clinical Microbiology & Infectious Diseases*, o0517, 13 - 16 April 2019, Amsterdam, Netherlands.

7. Gulmez D. Alp Ş. Gursoy G. Ayaz Çaglayan M, **Dogan O**, Arıkan-Akdaglı S, Akova M. Mixed fungemia within 18-years in a university hospital and antifungal susceptibility profiles of the isolates. *Balkan Fungus 2018 First Balkan Conference on Medical Mycology and Mycotoxicology,* 26(S2), 70-71, Romania

8. Emiralioğlu N, Doğru D, **Dogan O**, Gulmez D, Arikan-Akdagli S, Eryılmaz S, Tuğcu S; Gharibzadeh Hızal M, Yalçın E, Özçelik U, Şener B, Kiper N. Diverse Clinical Characteristics of Aspergillus Growth in Patients with Cystic Fibrosis*. 41st European Cystic Fibrosis Conference*, 17(S3), 78-78

9. **Dogan O**. Turan D, Özakkaş F, Dinçer Ş, Aksaray S. Species Distribution of Yeast Isolates Collected Between 2014-2016 in North Anatolian Public Hospitals Union, Central Mycology Laboratory: Data from Eleven Hospitals in Istanbul, Turkey. *10th Balkan Congress of Microbiology*, p76, 2017, Sofia, Bulgaria

10. Turan D, **Dogan-Aycik O**, Ozakkaş F, Dincer S, Toptan H, Soysal E, Acman S, Aksaray S. Importance of species-level identification of yeasts isolated from clinical samples. *Congress of Turkish Microbiology Society*, p128, 2016, Antalya

11. Toptan H, Balkose G, **Dogan O**, Boz ES, Aksaray S. Presence of Entamoeba Histolyitica Lectin Antigen in Stool Samples*. International Symposium on Parasitic Zoonoses.* p39, 2016, Antalya

12. Toptan H, Bedir M, Balkose G, **Dogan O**, Boz ES, Adaleti R, Aksaray S. detection of Rota Virus and Adeno Virus antigens in stool samples of patients with acute gastroenteritis. *Congress of Turkish Microbiology Society*, p317, 2016, Antalya

13. Toptan H, Yıldız N, **Dogan O**, Yigit G, Adaleti R, Aksaray S. Observation of colistin resistance of the isolates obtained from various clinical samples during 2011-2016*. Congress of ANKEM*, p17, 2016

14. **Dogan O**, Turan D, Soysal E, Acıman S, Aksaray S. Prevalence and species distribution of fungal isolates from clinical samples in Mycology Laboratory of North Anatolian Public Hospitals Union; Istanbul. *National Congress of Clinical Microbiology*, 318, 2015, Antalya

15. Turan D, **Dogan-Aycik O**, Dincer S, Kandiser A, Tekin M, Demir Y, Adaleti R, Sanmak E, Aksaray S. Identification of Candida species isolated from clinical samples in North Anatolian Public Hospitals Union, Central Microbiology Laboratory; Istanbul. *National* *Congress of Clinical Microbiology*, p317, 2015, Antalya

16. **Dogan O**, Gulmez D, Arıkan-Akdagli S. Utility of the direct germ tube test from positive blood culture bottles, *National Congress of Clinical Microbiology*, p292, 2015, Antalya

17. Aydin G, **Dogan-Aycik O**, Yigit G, Senel F, Uzun MA. Adaleti R, Aksaray S. A Rare Cause of Peritonitis After Dental Procedure; Aggregatibacter Aphrophilus. *National Congress of Clinical Microbiology*, p085, 2015, Antalya

18. D. Gülmez, **Dogan O**, B. Boral, A. Döğen, M. İlkit, G. Sybren de Hoog, S. Arıkan-Akdağlı. In vitro activities of six antifungal drugs against Exophiala spp. isolated from dishwashers and railway sleepers in Turkey. 7th Trends in Medical Mycology. 8-12 October 2015, Lizbon, Portekiz. Poster P028. Mycoses 2015; 58 (supplement S4): 63.

19. **Dogan O**, Gulmez D, Emiralioglu N, Yalcin E, Arıkan-Akdaglı S, Dogru-ErsözD, Ozcelik U, Kiper N, Sener B. Mould infections in Cystic Fibrosis patients isolated from respiratory samples: six years prevalence of Hacettepe University Microbiology Laboratory, *Congress of Turkish Microbiology Society*, p275, 2014, Antalya

20. **Dogan O**, Gulmez D, Arıkan-Akdagli S Effect of new species-specific breakpoints on evaluation of antifungal susceptibility tests in Candida species isolated from clinical samples. *National Medical Mycology Congress*, p23, 2014, Ankara

21. **Dogan O**, Inkaya AC, Gulmez D, Uzun O. Akova M, Arıkan-Akdagli S Evaluation of PNA-FISH Method for Direct Identification of Candida Species in Blood Culture Samples and Its Potential Impact on Guidance of Antifungal Therapy. *Febrile Neutropenia Society Convention,* p.15, 2014, Ankara,

22. **Dogan O**, Gulmez D, Arıkan-Akdagli S. Polymicrobial bloodstream infections involving Candida species. *National Congress of Molecular and Diagnostic Microbiology*,2014, Ankara

23. Yasar HA, Arikan-Akdagli S, Gulmez D, **Dogan O**, Akova M. Evaluation of the patients with invasive mould infection during March 2006- January P35. Febrile Neutropenia Symposium. P23, 2013, Ankara.

24. **Dogan-Aycik O**, Cinel G., Tunckanat F., Sener B., Yalcin E., Dogru Ersoz D., Ozcelik U., Kiper N.,Evaluation of the role of anaerobic bacteria in patients with cystic fibrosis, *23rd. European Congress of Clinical Microbiology and Infectious Disease*, R2521,Berlin, 2013,

25. **Dogan O**, Gulmez D, Arıkan-Akdagli S.In-vitro activity of azole group antifungals against Candida glabrata, isolated in Hacettepe University between 2008-2012*. Febrile Neutropenia Symposium.* P24*,* 2013, Ankara.

26. **Dogan O**, Koseoglu Eser O, VanDamme P, Sener B. Isolation of Ralstonia insidiosa from cyctic fibrosis patients in a Turkish University hospital. *20th.* *European Congress of Clinical Microbiology and Infectious Diseases* (ECCMID), P1741, 2010, Vienna, Austria.

27. **Dogan O**, Sener B, Yalcin E, Dogru D, Ozcelik U, Kiper N. MRSA and macrolide resistant Staphylococcus aureus colonization rates in a Turkish CF center. 32nd. *European Cystic Fibrosis Conference*, 10-13 June 2009, Brest, France

28. **Dogan O,** Gulmez D, Hascelik G. Effect of new breakpoints proposed by Clinical and Laboratory Standards Institute in 2008 for evaluating penicillin resistance of Streptococcus pneumoniae in a Turkish University Hospital. Congress of Turkish Microbiology Society, s37, 2008. Bodrum, Muğla

29. **Dogan O**, Gulmez D, Hasçelik G. Investigation of the multidrug resistance in Streptococcus pneumoniae isolates between 1996-2008. *Congress of Turkish Microbiology Society*, s36, 2008. Bodrum, Muğla (oral presentation)

**TEACHING ACTIVITIES**

**Courses Taught**

Koç University School of Medicine

Block Code and Title

Spring 2018-Fall 2019

MEDI 201- MOLECULAR & CELLULAR BASIS OF MEDICINE

IICR 301- INFECTION, INFLAMMATION AND CELLULAR RESPONSE

CVRD 304- CARDIOVASCULAR AND RESPIRATORY DISEASES

GIND 305- GASTROINTESTINAL DISEASES

PUBC 307- PUBLIC HEALTH

Koç University Graduate School of Health Science

Semester: Spring 2019-Open

HSMM 509 NEW CONCEPTS IN MEDICAL MYCOLOGY- 3 Units /lecture

Semester: Fall 2019-Open

HSMM-501 FUNDAMENTALS OF MEDICAL MICROBIOLOGY 3 Units /lecture

HSMM-504 MEDICAL MICROBIOLOGY LAB. PRACTICE-1

HSMM-502 ANIMAL MODELS IN INFECTİOUS DİSEASE

**Invited Lecture**

* Kültür ve Antifungal Duyarlılık Testleri: Ne zaman, Nasıl yapalım, Nasıl Yorumlayalım? “XX. Türk Klinik Mikrobiyoloji ve İnfeksiyon Hastalıkları Kongresi (KLİMİK 2019)” Mart 2019-Antalya
* Invaziv Mantar Enfeksiyonlarının Epidemiyolojisi ve Risk Faktörleri- Yoğun Bakımda İnvazif Fungal İnfeksiyonlar-Fungall Akademi, 29 September 2018- İstanbul
* Laboratuvardan Kliniğe Çoklu İlaca Dirençli Bakteri Enfeksiyonlarına Yaklaşım. XIII. Antimikrobik Kemoterapi Günleri-April 2018- İstanbul
* Uzmanıyla Tartışalım Yapıyorum Ama Doğru Mu Yapıyorum? Adt Raporlama: *Enterobacteriaceae* Kökenlerinde Karbapenem Ve Kolistin Direncinin Saptanması Ve Raporlama- IV. Ulusal Klinik Mikrobiyoloji Kongresi- October 2017, Antalya

**Member of Scientific Organizations:**

ESCMID-European Society of Clinical Microbiology and Infectious Diseases.

KLIMIK-Turkish Society of Clinical Microbiology and Infectious Diseases.

TMC-Turkish Society for Microbiology

Turkish Society for Mycology

Ankara Microbiology Society

**Professional Activities**

KLIMIK- Turkish Society of Clinical Microbiology and Infectious Diseases-Turkish Fungal Infections Study Group (Vice president)

KLIMIK- Turkish Society of Clinical Microbiology and Infectious Diseases- Human microbiome and biotherapy study group member

 KLIMUD- Society for Clinical Microbiologists of Turkey, Antimicrobial Susceptibility Tests Standardization Study Group Member

KLIMUD- Society for Clinical Microbiologists of Turkey, Young Scientist Subcommittee member