

**ACADEMIC
CURRICULUM VITAE**

1. Name - Surname: Ahmet Çağlar Özketen

2. Title: Dr.

3. Educational Background: PhD.

Degree	Department/Program	University	Year
Bachelor's	Molecular Biology and Genetics	Middle East Technical University	2011
Master's	Biotechnology	Middle East Technical University	2013
PhD	Biotechnology	Middle East Technical University	2019

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s):

Cloning, Transformation And Wheat Infiltration Assay Of A *Puccinia striiformis* f. sp. *tritici* Effector Candidate. Supervisor: Prof. Dr. Mahinur S. Akkaya

4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s):

Pst Secretome Project, A Short Cut to Effector Analysis. Supervisor / Co-Supervisor: Prof. Dr. Mahinur S. Akkaya / Assoc. Prof. Dr. Bala Gür Dedeoğlu

5. Academic Titles:

Date of Assistant Professorship:

Date of Associate Proferssorship:

Date of Professorship:

6. Supervised Master's and PhD Theses:

6.1. Master's Theses

6.2. PhD Theses

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (SCI,SSCI, AHCI, ESCI, Scopus)

- Dagvadorj B, Ozketen AC, Andac A, Duggan C, Bozkurt TO, Akkaya MS*. 2017. A *Puccinia striiformis* f. sp. *tritici* secreted protein activates plant immunity at the cell surface. *Scientific Reports* 7, 1141.
- Andac, A., Ozketen, A. C., Dagvadorj, B., & Akkaya, M. S. (2020). An effector of *Puccinia striiformis* f. sp. *tritici* targets chloroplasts with a novel and robust targeting signal. *European Journal of Plant Pathology*, 157(4), 751-765.
- Ozketen, A. C.* , Andac-Ozketen, A., Dagvadorj, B., Demiralay, B., & Akkaya, M. S.* (2020). In-depth secretome analysis of *Puccinia striiformis* f. sp. *tritici* in infected wheat uncovers effector functions. *Bioscience Reports*, 40(12).
- Ozketen, A. C., Karaman, O., Ozdemir, A., Soysal, I., Kizilenis, C., Nteli Chatzioglou, A., ... & Gunbas, G. (2022). Selenophene-Modified Boron Dipyrromethene-Based Photosensitizers Exhibit Photodynamic Inhibition on a Broad Range of Bacteria. *ACS Omega*.
- Wu, N.*, Ozketen, A. C.* , Cheng, Y., Jiang, W., Zhou, X., Zhao, Z., ... & Akkaya, M. S*. (2022). *Puccinia striiformis* f. sp. *tritici* effectors in wheat immune responses. *Frontiers in Plant Science*, 4295.
- Emir, M., Ozketen, A. C., Ozketen, A. A., Oğuz, A. Ç., Huang, M., Karakaya, A., ... & Gunel, A. (2022). Increased levels of Cell Wall Degrading Enzymes and peptidases are associated with aggressiveness in a virulent isolate of *Pyrenophora teres* f. *maculata*. *Journal of Plant Physiology*, 153839.
- Erdem M, Andaç-Özketen A, Özketen AÇ, Karahan G, Tozluyurt A, Palaz F, & Ünal S. (2023). Clinical validation and evaluation of a colorimetric SARS-CoV-2 RT-LAMP assay against RT-PCR. *Infect Dis Clin Microbiol*.5(2):136-43.

- Kazan, H. H., Karahan, C. P., Celik, E., Özketen, A. Ç., Birgücü-Çağıl, D., & Ergun, M. A. (2023). Evaluation of DNA Microarray in Biomarker Detection in Cell-free DNA from Colorectal Cancer Cell Lines: A Proof-of-Concept Study. *Experimed*, 13(2), 86-92.

7.2. Articles Published in Other International Peer-Reviewed Journals

7.3. Papers Presented at International Scientific Conferences and Published in Conference Proceedings

- Caglar Ozketen, K. Narci, A. Andac, B. Gur-Dedeoglu, Y. Oztemur, M. S. Akkaya. Hunting down the endogenic miRNA like small RNAs in plant pathogenic fungi. XVI International Congress on Molecular Plant Microbe Interactions, 2014, 6-10 July, Rhodes, Greece
- B. Dagvadorj, A. Caglar Ozketen, A. Andac, K. Narci, B. Demiralay, Z. Mustafa, A. Yaramis, E. Elcin, and M.S. Akkaya. Stripe rust pathogen effectors to decipher disease mechanism. 2nd International Wheat Stripe Rust Symposium (talk) April 28 – May 1 2014 in Izmir, Turkey
- Bayantes Dagvadorj, A. Caglar Ozketen, Ayse Andac, Kubra Narci, Burak Demiralay, Zemran Mustafa, Adnan Yaramiş, Evrim Elçin, Mahinur S. Akkaya, 'Effectors and microRNA like small RNAs in pathogen host interaction', 2nd Annual Cost Meeting, FA1208, Zakopane, Poland 2014
- Mahinur S. Akkaya, Bayantes Dagvadorj, Ahmet Caglar Ozketen, Ayse Andac, Kubra Narci, Zemran Mustafa, Burak Demiralay, Determination, Function and Subcellular Localization of Plant Fungal pathogen Effectors. III. International Congress of the Molecular Biology Association. MolBioCon2014, Izmir.
- Ahmet Caglar Ozketen, Ayse Andac, Mahinur S. Akkaya. Awakening of ETI: Stripe rust effector candidates reveal HR on wheat via a bacterial type III secretion system. 14th International Cereal Rusts and Powdery Mildews Conference 5-8 July 2015 in Helsingor, Denmark (Oral Presentation).
- Mahinur S. Akkaya, Bala Gur Dedeoğlu, Ahmet Caglar Ozketen, Ayse Andac, Burak Demiralay, Yasemin Oztemur. Whole transcriptome sequencing and effector expression analysis of virulent *Puccinia striiformis* f. sp. *tritici* infected wheat on custom designed microarray chips.

14th International Cereal Rusts and Powdery Mildews Conference 5-8 July 2015 in Helsingor, Denmark

- Dagvadorj, B., Bozkurt, T. O., Ozketen, A. C., Andac, A., Akkaya, M. S. Elucidation of subcellular localization of *Puccinia striiformis* f. sp. *tritici* effectors. 41st FEBS Congress on Molecular and Systems Biology for a Better Life. (September 2016). FEBS Journals (283, pp16).
- Gunel A., Andac A., Ozketen AC., Emir M., Meral S., Çelik-Oğuz A., Rampitsch C., Karakaya A. Comparative view on two *Pyrenophora teres* f. *maculata* isolates via proteome profiling, identifies small secreted effector candidates. International Plant Proteomics Organization, 2018 in Padova (konuşma ve bildiri).
- Türkyılmaz, S., Özketen, A. Ç., Selvi, H. T., Akbulut, D., Yılmaz, O., & Öner, K. (2020 0). Zinc(II)-Bisdipicolylamine Complex Bearing Agents for Selective Agglutination, Imaging, and Photodynamic Inactivation of Bacterial Cells. 8th International Drug Chemistry Congress, Antalya, Türkiye.
- Ozketen AC. Intranasal Vaccine Studies. (2021). TURKISH PHARMACOLOGICAL SOCIETY. (Oral Presentation)

7.4. National/international Books or Book Chapters

- Çetinel, B., Mustafa, Z., Özketen, A. A., Özketen, A. Ç., & Baysal, Ö. (2022). Fungal Genome and Genomics. In *Phytopathology and Molecular Biology of Plant-Pathogen Interactions* (pp. 51-73). CRC Press.

7.5. Articles Published in National Peer-Reviewed Journals

8. Art and Design Activities

9. Projects

10. Administrative Responsibilities

11. Memberships in Scientific and Professional Organizations

12. Awards

13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022	Fall	BIO110 - Introduction to Modern Biology	3		80
	Spring	BIO101 - Life Sciences	3		47
2022 - 2023	Fall	BIO110 - Introduction to Modern Biology	3		152
	Spring	BIO101 - Life Sciences			53
	Spring	BIO110 - Introduction to Modern Biology	3		221