FIELD CROPS CENTRAL RESEARCH INSTITUTE/
ANKARA

ÜLKÜ SELCEN HAYDAROĞLU

MSc. Bioengineer

EDUCATION

PhD. Middle East Technical University (METU)
2017-Ongoing Biotechnology Department

MSc. University of East Anglia/JIC, UK
2015-2016 Plant Genetics&Crop Improvement

MSc. Hacettepe University
2012-2015 Bioengineering Department

Bachelor's Degree Ege University
2005-2009 Bioengineering Department

LANGUAGE English YDS 85

CAREER

2016-….. Researcher, FCCRI, Field Crops Central Research Institute, ANKARA

ABOUT ME

She was born in 1990 in Aydın, Turkey. She graduated from Ege University Bioengineering Department in 2012. She did her first master degree in Hacettepe University Bioengineering Department between 2012-2015. Then she got a governmental scholarship from Republic of Turkey, Ministry of National Education to do her MSc degree in the UK. Thus she completed her second MSc degree in 'Plant Genetics and Crop Improvement' area between 2015 and 2016 in University of East Anglia and John Innes Centre, UK. The researcher has been doing her PhD studies at METU Biotechnology Department since 2017.

CONTACT

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PROJECTS

Projects Conducted

1. Tübitak 4004 Project, Project No: 119B894, Nature Education Project with 4 Elements (Project trainer, 24-28 August 2020)

2. Guided Project: Screening of lettuce local varieties with SSR Markers (Researcher, October 2017-March 2018)

3. TAGEM project, Studies on the Creation of Virus-Free Polycross Plot in Alfalfa (Project Coordinator, January 2018-December 2018)

4. TÜBİTAK 1001 Project, Project No: 112M293, Development of Unique Surfaces with Infection and Petrification Resistance in Polyurethane Ureteral Stents (Research Scholar/November 2012-November 2014)

5. Hacettepe University BAB6080 Support Project, Project No: 1064, Investigation of Neuron-Like Cell Behaviors in Conductive Tissue Scaffolds (Researcher, December 2013-December 2014)

6. Master Thesis Project: CRISPR/Cas9 Genome Editing in Wheat, England, John Innes Centre- University of East Anglia-(September 2015-September 2016)

7. Master Thesis Project: The Effect of Stimulating Factors on Neurite Elongation in Nanofibers Decorated with Gold Nanoparticles, Hacettepe University-(September 2012-July 2015)

8. Undergraduate Thesis Project: Neuronal Differentiation of Mesenchymal Stem Cells on Fibrous Structures by Co-culture Method, Ege University-(September 2011-June 2012)

Ongoing Projects

1. TAGEM Project: Development of Molecular Markers Associated with Resistance to Barley Stripe (*Pyrenophora graminea*) and *Bipolaris sorokiniana* Leaf Spot Diseases (Project Leader, 01/01/2022-31/12/2024)

2. TAGEM Project: Tissue Culture Applications and Determination of Some Active Component Contents in Saffron (*Crocus sativus* L.) Plant (Project Researcher, 01/01/2022-31/12/2024)

3. TAGEM Project: Association of Certain Antioxidant Contents with Genome in Some *Triticum monococcum* Genotypes (Project Researcher, 01/01/2022-31/12/2024)

4. TAGEM Project: Determination of Vernalization and Allelic Variation in Photoperiod Genes in Bread Wheat Genotypes (Project Researcher, 01/01/2022-31/12/2024)

5. TAGEM Project: Development of Molecular Marker Associated with Resistance to Net Spot (*Pyrenophora teres*) and Leaf Spot (*Rhynchosporium commune*) Diseases in Barley (Project Researcher, 01/01/2019-31/12/2021)

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PUBLICATIONS

INTERNATIONAL ARTICLES AND PAPERS

Articles Published in International Journals

1. Süntar, İ., Çetinkaya, S., **Haydaroğlu, Ü. S**., Habtemariam, S. (2021). Bioproduction process of natural products and biopharmaceuticals: Biotechnological aspects, *Biotechnology Advances*, Volume 50, 107768, https://doi.org/10.1016/j.biotechadv.2021.107768.
2. Hayta, S., Smedley, M. A., **Demir, U. S**., Blundell, R., Hinchliffe, A., Atkinson, N. & Harwood, W. A. (2019). An Efficient and Reproducible Agrobacterium-Mediated Transformation Method for Hexaploid Wheat (Triticum aestivum L.). Plant Methods 15, 121. https://doi.org/10.1186/s13007-019-0503-z
3. **Demir, U. S**., Shahbazi, R. Calamak, S., Ozturk, S., Gültekinoğlu, M., Ulubayram, K. (2018). Gold nano-decorated aligned polyurethane nanofibers for enhancement of neurite outgrowth and elongation. *J Biomed Mater Res Part A*. https://doi.org/10.1002/jbm.a.36365
4. Ulubayram, K., **Demir, U. S**., Shahbazi, R., Calamak, S., Ozturk, S. (2015). Enhancement of Neuronal Outgrowth by Gold Nanoparticles Decorated Polyurethane Nanofiber Scaffolds, *TISSUE ENGINEERING PART A, Mary Ann Liebert Inc*., 21: S303-S303. doi: 10.1089/ten.tea.2015.5000.abstracts

International Papers, Seminars, and so on

1. **Haydaroglu, U. S**., Cetinkaya, S. (2020). Evaluation of different sterilization methods for propagation of saffron (*Crocus sativus* L.) in tissue culture. *3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020)*, S710, 19-20 March 2020, Ankara, Turkey.
2. Cetinkaya, S., **Haydaroglu, U. S.** (2020). Effective combinations of media components for saffron (*Crocus sativus* L.) micropropagation. *3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020),* S713, 19-20 March 2020, Ankara, Turkey.
3. Hayta S., Smedley M. A., Hinchliffe A., **Demir U. S.,** Harwood W. (2018) Optimising CRISPR/Cas9 genome editing in wheat (*Triticum aestivum* L.). *Frontiers in Genome Editing*. October 22-25. Beijing, China.
4. Koyuncu, N., Yaman H., Özcan, F.S., **Haydaroğlu, Ü.S.** (2018). 'Palaz' Fındık Çeşidinin Mikroçoğaltımında *ex vitro* Köklendirme. *Uluslararası katılımlı Türkiye 6. Tohumculuk Kongresi*, 10-13 September 2018, Niğde, Turkey.
5. Çetin-Özkan, G., Koyuncu N., Çelik-Özer, G., Özcan, F. S., Ertekin-Öner, F., Yaman H., Ayaz K., Yetilmezer-Koçak, E., **Demir Ü. S.** (2017). Effects of Antioxidants to Tissue Browning Problems of Hazelnut Cultures, *9TH International Congress on Hazelnut*, 15-19 August 2017, Samsun, Turkey.
6. **Demir, U. S**., Shahbazi, R., Calamak, S., Ozturk, S., Ulubayram, K. (2015). Enhancement of Neuronal Outgrowth By Gold Nanoparticles Decorated Polyurethane Nanofiber Scaffolds. *Tissue Engineering and Regenerative Medicine (TERMIS 2015)*, 8 -11 September 2015
7. **Demir, U. S**., Shahbazi, R., Calamak, S., Ozturk, S., Ulubayram, K. (2015). Effects of Different Stimulating Factors on Axonal Elongation of PC12 Cells Seeded on Gold Nanoparticle Modified Scaffolds, *BIOMED 2015: 21TH International Biomedical Science & Technology Symposium*, 22-24 October 2015, Antalya, Turkey.
8. **Demir, U. S.,** Tasdemir, S., Nesil, T., Özen, M. Ö., Sendemir-Urkmez, A. (2012). Neuronal Differentiation of Mesenchymal Stem Cells on Fibrous Surfaces by Co-Culture Technique, *BIOMED 2012: 18TH INTERNATIONAL BIOMEDICAL SCIENCE & TECHNOLOGY SYMPOSIUM*, S60, 10-13 September 2012, Tokat, Turkey (oral presentation).

- **OTHER PUBLICATIONS**

Ph.D. Thesis, Master Thesis, Reports and Books

1. Master Thesis: CRISPR/Cas9 Genome Editing in Wheat, England, John Innes Centre- University of East Anglia-(September 2015-September 2016)

2. Thesis: The Effect of Stimulating Factors on Neurite Elongation in Nanofibers Decorated with Gold Nanoparticles, Hacettepe University-(September 2012-July 2015)

3. Undergraduate Thesis Project: Neuronal Differentiation of Mesenchymal Stem Cells on Fibrous Structures by Co-culture Method, Ege University-(September 2011-June 2012)

Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

Trainings Taken

1. Smart Improvement with KASP (supported by Ankara Development Agency, TR51/19/TD/0030)
Training dates: 07-14 October 2019
The company that organized the training: LGC Technologies
Training place: Field Crops Central Research Institute, Biotechnology Research Center
2. Practical Training on Gene Deletion Technique in Fungi (supported by TÜBİTAK)
Training dates: 12-16 February 2018
Organizer of the training: Dr. Fatih Ölmez
Training place: Field Crops Central Research Institute, Biotechnology Research Center
3. Cochran Training on Agricultural Biotechnology Policies and Communication
Training dates: 02-15 September 2018
Educational institutions: United States Department of Agriculture (USDA) and North Carolina State University (NCSU)
Study location: Washington DC and North Carolina states in the United States
4. Statistical Methods for Informatics training (supported by Ankara Development Agency, TR51/19/TD/0114)
Training dates: 17-21 August 2020
Institutions organizing the training: PHI Tech Bioinformatics
Training place: Field Crops Central Research Institute, Biotechnology Research Center
5. 'Bioinformatics Applications in Genetic Studies' Training (supported by Ankara Development Agency, TR51/19/TD/0114)
Training dates: 24-28 August 2020
Institutions organizing the training: PHI Tech Bioinformatics
Training place: Field Crops Central Research Institute, Biotechnology Research Center

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Scholarship and Awards

1. Cochran Program Fellowship on Agricultural Biotechnology Policies and Communication
Date/Place: September 02-15, 2018/United States of Washington DC and North Carolina
Program organizers: United States Department of Agriculture (USDA) and North Carolina State University (NCSU)
2. YLSY (Selecting and Placing Candidates for Postgraduate Education Abroad) Scholarship
Date/Place: July 2015-September 2016/University of East Anglia and John Innes Center (MSc.)
Scholarship-giving: Republic of Turkey, Ministry of National Education (in the name of TAGEM)
3. TÜBİTAK Researcher Scholarship
Date: November 2012-November 2014
Research Project: Development of Infection and Petrification Resistant Unique Surfaces in Polyurethane Ureteral Stents (TÜBİTAK 1001 Project)
4. 2016-2017 METU Graduate Courses Performance Award
Award-giving: METU Graduate School of Natural and Applied Sciences

Organization of international congress/workshop/symposium

1. TAGEM Biotechnology Workshop-2019
2. Innovative Technologies and Techniques in Plant Breeding Virtual Seminar with USDA-TAGEM Collaboration-2020
3. Biotech Studies Days Webinar-2021

Editorship in an International Refereed Scientific Journal

06/2020-Ongoing: Biotech Studies (TAGEM Journals)

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