



TAGEM
R&D AND INNOVATION

CENTRAL FISHERIES RESEARCH INSTITUTE
SUMAE / TRABZON

Dr. NİHAL ÇALIŞKAN

Biologist

EDUCATION

- PhD**
2005-2014
Karadeniz Technical University
Faculty of Science / Department of
Biology- Botanic-Plant Physiology
 - MSc**
2003-2005
Karadeniz Technical University
Faculty of Science / Department of
Biology- Botanic-Plant Physiology
 - Bachelor's Degree**
1999-2003
Karadeniz Technical University
Faculty of Science / Department of
Biology
- LANGUAGE** English UDS 80, KPDS 71

CAREER

- 2011- Presently, Dr. Biologist, Central Fisheries Research Institute- TRABZON
- 2007-2008 (12 months), ITC student-Research assistant, Hungarian Academy of Sciences Biological Research Institute, HUNGARY
- 2005-2011 Research Assistant, Karadeniz Technical University/Institute of Sciences/Biology Department, TRABZON

ABOUT ME

Between 2005-2011, she worked as a research assistant at the Biology Department of the Institute of Science and Technology at KTU.

She transferred to SUMAE in 2011 and completed her doctorate. Between 2016-2018, she worked as a technical editor in the scientific journals "Turkish Journal of Fisheries and Aquatic Sciences", "Genetics of Aquatic Organisms" and "Aquaculture Studies". She is the director of the TAGEM project named "Determination of the Biochemical Contents of Macroalgae Species in the Eastern Black Sea Coast". In our Institute's Fisheries Health Department, Dr. As a biologist, he continues to work as a researcher in various projects. She is married and has 2 children.

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. KTÜ-BAP - Investigation of the Effect of Brassinosteroids on Leaf Rolling in *Ctenanthe setosa* at the Increasing Drought Period at the Enzymatic Level-Researcher (2005-2007)
2. KTÜ-BAP - Investigation of Cell Wall Lignification Mechanism During Leaf Rolling in *Ctenanthe setosa*-Researcher (2007-2009)
3. TAGEM-National Fisheries Genetic Database (2017-2021)

▪ **Ongoing Projects**

1. TAGEM- Determination of Biochemical Contents of Eastern Black Sea Coastline Macroalgae Species-Project Leader-(2018-2022).
2. TAGEM – Use of Molecular Genetic and Biotechnological Methods in the Creation of Trout Breeding Lines- Researcher-(2019-2024).
3. TAGEM-Phage Isolation and Characterization Against Fish Disease-Causing *A. hydrophila*-Researcher-(2021-2022)

▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Indexed Journals (SCI, SCI-Expanded)**

- Türe M., Altınok I., Cebeci A., **Caliskan N.** 2021. Characterization of novel bacteriophage HP-T19 that targets *Hafnia alvei*. Aquaculture Research. Doi: 10.1111/are.155.92.
- Kutlu Çalışkan N.**, Kadioğlu A., Saruhan Güler N., 2017. Exogenously Applied Polyamines Ameliorate Osmotic Stress-Induced Damages and Delays Leaf Rolling Through Improving Antioxidant System in Maize Genotypes. Turk. J. Biol. 37: 614-619. <http://dx.doi.org/10.3906/biy-1210-27>
- Terzi R., Saruhan Güler N., **Kutlu Çalışkan N.**, Kadioğlu A., 2013. Lignification response for rolled leaves of *Ctenanthe setosa* under long-term drought stress. Turk. J. Bot., 37, 614-619.
- Terzi R., Sağlam A., **Kutlu N.**, Nar H., Kadioğlu A. , 2010. Impact of Soil Drought Stress on Photochemical Efficiency of Photosystem II And Antioxidant Enzyme Activities of *Phaseolus vulgaris* cultivars. Turk. J. Bot., 34, 1-10.



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Kutlu N., Terzi R., Tekeli Ç., Şenel G., Battal P., Kadioglu A., 2009. Changes in Anatomical Structure and Levels of Endogenous Phytohormones during Leaf Rolling in *Ctenanthe setosa* under Drought Stress. *Turk J Biol.* 33: 115-122.

Articles Published in Other International Journals

International Symposium, Seminars, etc.

Türe M., Cebeci A., **Çalışkan N.**, Saltan AN. 2021. Isolation and characterization of bacteriophage against *Lactococcus garviae*: an in-vitro study. International Congress on Biological and Health Sciences (Icbh), 26-28 February, s: 101.

Türe, M, **Çalışkan, N.**, 2019. Investigation of Some Marine Algae for in-vitro Antimicrobial Activities against Fish Pathogenic Bacteria. 3. International Conference on Agriculture, Food and Veterinary and Pharmacy Sciences, ICAFOP, 16-18 April, p:108.(Oral Presentation)

Çakmak, U., ÖZ Tuncay, F., Somtürk Yılmaz, B., **Kutlu Çalışkan, N.**, Kolcuoğlu, Y., Özdemir, N., 2019. Characterization and Co-immobilization of Novel α -Amylase and Xylanase from *Cladophora* sp., 2nd International Turkish World Engineering and Science Congress , 2-10 November, Antalya/Türkiye.

Kutlu, N., Kadioglu, A., Várkonyi Z., Tóth S. Z., Szabó M., Garab G., 2009. Drought Stress Related Photosynthetic Properties of *Ctenanthe setosa* Rosc. Eichler., 5th Balkan Botanical Congress, 07-11 Eylül Belgrad/Sırbistan.

Kadioglu, A., Terzi, R., Saruhan, N., Sağlam, A., **Kutlu, N.**, 2006. Trends in Leaf Rolling Research of Plants under Drought Stress. Modern Trends in Biological Sciences: Seeking on Integrative Approach, 1st IIC Alumni Meeting, Szeged/Macaristan. (Oral Presentation)

Çakmak Ü., Öz Tuncay F., Kolcuoğlu Y., **Kutlu Çalışkan N.**, 2019. Calculation of Thermodynamic Parameters Necessary for Thermal Inactivation of Xylanase from Macroalgae Tissue, CESCOP, 4 - 06 Eylül, Türkiye.

Öz Tuncay F., Çakmak Ü., Kolcuoğlu Y., **Kutlu Çalışkan N.**, 2019. Calculation of Thermodynamic Parameters Necessary for Thermal Inactivation of α -Amylase from Macroalgae Tissue, International Conference on Chemical Energy and Semiconductor Photochemistry, 4 - 06 Eylül, Türkiye.

Kutlu Çalışkan, N., Kadioglu, A., 2012. The Effects of Spermine Pretreatment on Leaf Rolling and Ascorbate-Glutathione Cycle Enzymes in *Zea mays* Subjected to Drought Stress, Polyamines: Biological and Clinical Perspectives, 2-7 Eylül İstanbul/Türkiye. (Poster)

Kutlu Çalışkan, N., Kadioglu, A., 2012. Effects of Exogenous Polyamines on Leaf Rolling, Activities of ROS Scavenging Enzymes and Hydrogen Peroxidase Content on Drought Sensitive and Tolerant Maizes, Polyamines: Biological and Clinical Perspectives, 2-7 Eylül İstanbul/Türkiye. (Poster)

Kutlu Çalışkan, N., Kadioglu, A., 2012. Putrescine Pretreatment Delays Leaf Rolling in Maize Seedlings, Polyamines: Biological and Clinical Perspectives, 2-7 Eylül İstanbul/Türkiye. (Poster)

NATIONAL ARTICLES AND PAPERS

Articles Published in National Journals



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▪ National Symposiums, Seminars, etc.

Kadioğlu A., Terzi R., Saruhan N., Sağlam A., **Kutlu Çalışkan N.**, Demiralay M., 2010. Kuraklık Koşullarında Yapraklarda erken ve Geç Kıvrılma Cevaplarının Kontrolü, 20. Ulusal Biyoloji Kongresi, 21-25 Haziran/Denizli.

Kadioglu A., Terzi R., Saruhan N., Saglam A., **Kutlu N.**, Nar H., 2008. Kuraklık Stresi Sırasındaki Yaprak Kıvrılması ile Stoma Davranışlarının Değerlendirilmesi, 19. Ulusal Biyoloji Kongresi, 23-27 Haziran, Trabzon.

Kutlu Çalışkan N., Terzi R., Kadioğlu A., 2010. Uzun Süreli Kuraklık Stresinin *Ctenanthe setosa*'daki Çözünebilir, İyonik Ve Kovalent Bağlı Peroksidaz Aktiviteleri Üzerine Etkisi, 20. Ulusal Biyoloji Kongresi, 21-25 Haziran/Denizli.

Kutlu N., Terzi R., Tekeli Ç., Şenel G., Kadioglu A. 2008. Kuraklık Stresi Altındaki *Ctenanthe setosa*'da Yaprak Kıvrılması Esnasında Meydana Gelen Anatomik Değişikliklerin İncelenmesi, 19. Ulusal Biyoloji Kongresi, 23-27 Haziran, Trabzon.

Terzi R., Sağlam A., **Kutlu N.**, Nar H., Kadioglu A., 2008. Kurak Koşulları Altındaki *Phaseolus vulgaris* Kültürvarlarının Antioksidan Enzim Aktivitelerindeki Değişimlerin Araştırılması, 19. Ulusal Biyoloji Kongresi, 23-27 Haziran, Trabzon.

Terzi, R., Sağlam, A., Saruhan, N., **Kutlu, N.**, Nar, H., Kadioğlu, A. 2007. Bazı Soya Fasülyesi (*Glycine max L.*) Çeşitlerinin Kuraklık Stresine Cevaplarının Karşılaştırılması. VII. Ulusal Ekoloji ve Çevre Kongresi, 10-13 Eylül, Malatya.

Kutlu N., Kadioğlu A. 2006. 24-Epibrassinolidin *Ctenanthe setosa* 'nın Yaprak Kıvrılmasına Etkisinin Biyokimyasal Seviyede Araştırılması. 18. Ulusal Biyoloji Kongresi, 26-30 Haziran, Kuşadası/ Aydın.

▪ OTHER PUBLICATIONS

▪ Ph.D. Thesis, Master Thesis, Reports, Books etc.

Master Thesis : Biochemical Investigation of the Effect of Brassinosteroids (24-epibrassinolide) on Leaf Rolling in *Ctenanthe setosa*

Ph.D Thesis : The Effects of Polyamine Pretreatment on Leaf Rolling, Antioxidant System and Photosynthesis in Maize (*Zea mays L.*)

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

Editorial

Ongoing



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Past

Turkish Journal of Fisheries and Aquatic Sciences – Technical Editor (2016-2018)

Genetics of Aquatic Organisms – Technical Editor (2016-2018)

Aquaculture Studies – Technical Editor (2016-2018)

Trainings

Name of Education	Starting date	End date	Training Unit
International Training Course with Scholarship from the Hungarian Government (ITC)	01.10.2007	01.10.2008	Szeged Biological Research Center
“Vocational Aqualabs Project” Training	24.09.2011	25.09.2011	European Union Center of Excellence (BRC) Ankara Üniv.-Bodrum
Applied Ichthyoplankton Course	5.06.2012	7.06.2012	Bandırma Sheep Research Station
“Project for Improving the Capacity of Extension Services within the Scope of IPARD” Training	24.04.2012	04.05.2012	TKDK and Trabzon Governorship Provincial Directorate of Food, Agriculture and Livestock
Project Writing Training	2014		Karadeniz Technical Üniv.
Çalışanların İş Sağlığı ve Güvenliği Eğitimi	12.04.2016	12.04.2016	Gıda Tarım ve Hayvancılık Bakanlığı
Q-PCR User Training	2016		SUMAE
3500 Genetic Analysis System User Training	19. 12.2016	20.12.2016	SUMAE
Agilent HPLC Software, Hardware, User Training	24. 01.2017	25.01.2017	SUMAE
Nanodrop ND-8000 Spectrophotometer Usage Training	1.12.2017	1.12.2017	SUMAE
Experimental Animals Use Certificate	17.11.2020	08.12.2020	SUMAE
UV Spectrophotometer Usage Training	2021		SUMAE

Social Networks

Google Scholar :

https://scholar.google.com/scholar?hl=tr&as_sdt=0%2C5&q=nihal+kutlu+%C3%A7al%C4%B1%C5%9Fkan&btnG=

Researchgate :

ORCID : <https://orcid.org/0000-0001-9475-3238> Kutlu Çalışkan

<https://orcid.org/0000-0003-2882-2631> Nihal Çalışkan