



TAGEM
R&D AND INNOVATION



Lerzan Gül AYKAS, MSc Agricultural Engineer

EDUCATION

- **Assoc. prof**
 - **PhD**
 - **MSc** Aegean University Institute of Graduate School of Natural and Applied Sciences Department of Agricultural Economics (1981-1985)
 - **Bachelor's Degree** Aegean University Faculty of Agriculture (1981-1985)
- LANGUAGE** English TOEFL-İBT/85

CAREER

- 1994 – ongoing Agricultural Engineer, Aegean Agricultural Research Institute, Department of Biodiversity & Genetic Resources
- 1991 – 1994 Muş Directorate of Provincial Agriculture and Forestry


ABOUT ME

She has been working in Aegean Agricultural Research Institute, Department of Biodiversity Genetic Resources since 1994.

Her subjects of study are the collection, conservation and documentation of plant genetic resources. My research is focused on the promotion of global food security, particularly the preservation of the genetic diversity of all plant species of socio-economic value in Turkey. She is a member of the ECPGR Documentation and ECPGR *Solanaceae* working group.

CONTACT

Üniversiteler Mah. Dumlupınar Bulv.
Eskişehir Yolu 10. Km Çankaya / Ankara
06800 TÜRKİYE

 lerzangul.aykas@tarimorman.gov.tr

 0 232 846 13 31-35



Lerzan Gül AYKAS, MSc

Agricultural Engineer



▪ **PROJECTS**

▪ **Projects Conducted**

1. Community Single Market and Structural Analysis of Turkey's Citrus, Seedless Raisin and Tomato Paste Production and Exports Before Turkey's Possible Membership to the Community, GIESSEN University, Germany, Aegean University (1989-1990)
2. Bingöl-Muş Rural Development Project and Investigation of Possible Effects of This Project on Muş Agriculture (1991-1993)
3. Bingöl – Muş Rural Development Project IFAD, MFAL, (1990-1994)
4. On farm Conservation of Turkey's Genetic Diversity, TUBITAK, (1999-2002)
5. Collection, Characterization, Conservation and Evaluation of Citrus Genetic Resources, TUBITAK, (2006-2009)
6. Assessment of Research Potential of Aegean Agricultural Research Institute. FP7-REGPOT-(2008-2010), Grant Agreement No: 227376
7. Morphological Characterization and Screening for Drought Tolerance of Turkey's Cowpea (*Vigna unguiculata* (L.) Walp) Landraces), TAGEM,(2010-2015)
8. Characterization and Preliminary Evaluation of Natural Populations of Strawberry Clover (*Trifolium fragiferum* L.). 2011-2013
9. Green One Step, TÜBİTAK-4004 Nature Education and Science Schools, (2011)
10. Collection and *Ex situ* Conservation of Rare, Endemic and Threatened Plant Species in İzmir Province, TAGEM (2014-2018)
11. Industry Plant Genetic Resources Research Project, TAGEM (1994-2019)
12. Characterization of Chickpea Genetic Resources and Germplasm Development Suitable for Breeding Purposes TÜBİTAK, (2013-2015)
13. Passage Region Medicinal and Aromatic Plants Genetic Resources (2012-2016)
14. Mainstreaming Biodiversity Conservation and Sustainable Use for Improved Human Nutrition and Well-being(Biodiversity for Food and Nutrition Project – BFN Project)
15. Women Farmers to meet with Agricultural Innovations, TOB, (2019-2020)



Lerzan Gül AYKAS, MSc

Agricultural Engineer



▪ Ongoing Projects

1. Documentation of Plant Genetic Resources, TAGEM, (1994-continuous).
2. Ex situ Conservation of Plant Genetic Resources), TAGEM (1994- continuous)
3. Create of Field Gene Banks Database and Website, TAGEM, (2020-2024 continuous)
4. The Research Project of Macro-Mushrooms Genetic Resources, TAGEM, (2006- continuous)
5. Gene Bank Herbarium Revision Project, TAGEM, (2017-2022)
6. TAGEM Genetic Resources Database and Workflow Management System TAGEM, (2019-2022)
7. Collection and Conservation of Local Varieties Based on Gap Analysis
8. Collection of Wild Relatives of Cultivated Plants and Determination of Genetic Reserves
9. A Species Extinct in Our Nature Bringing Back to Turkey; The Celebi Tulip (*Tulipa clusiana*) Example, TAGEM,(2021-2023)
10. Identification of Unidentified Seed Samples in the National Gene Bank (2021-2025)
11. Investigation of Human-Plant Relationship from Past to Present in Bergama Region (2021-2025)
12. TÜRKTOB, Following the Seed: Collecting Landraces in Hatay Province (2021-2022)

PUBLICATIONS

▪ INTERNATIONAL ARTICLES AND PAPERS

▪ Articles Published in International Journals

1. Álvarez-Muñiz C., Luisa Rubio Teso M., Magos Brehm J., Ralli P., Palmé A., Dulloo E., Maxted N., Negri V., Löwenhardt H., Aykas L., Kell S., Iriondo J. M., (2021), Crop wild relative network showcases, Crop Wild Relative, ISSN 1742-3694 (Online) 2021 pp 16-18

▪ International Papers, Seminars, etc. Uluslararası Makaleler, Seminerler vb.

2. Tan, A. Aykas, L. and Inal A. 2000. Status report of Beta genetic resources in Turkey. In: Maggioni, L., L. Frese, C. Germeier and E. Lipman, Comps. Reports of a Working Group on Beta. First Meeting, 9-10 September 1999. Broom's Barn, Bury St. Edmunds, UK. IPGRI.
3. Aykas, L. G. 2006 Pepper database: achievement. In: Dounay, M.C., W.van Dooijeweert, L. Maggioni and E. Lipman, Compilers. Report of a Working Group on Solanaceae, *Ad hoc* Meeting, held jointly with the Fifth Meeting of the EGGNET Project, 17 September 2004, Bari, Italy. International Plant Genetic Resources Institute, Rome, Italy. Pp .5-8.
4. Sarı, N., Tan, A., Yanmaz, R., Yetisir, H., Balkaya, A., Solmaz, L., Aykas, L. 2008. General Status of Cucurbit Genetic Resources in Turkey. Proceeding of the IXth EUCARPIA Meeting on Genetics and Breeding of Cucurbitaceae (Pitrat M, ed), INRA, France, 21-32.



Lerzan Gül AYKAS, MSc Agricultural Engineer



5. Tan, A. and L. Aykas. 2009. On-farm conservation of wheat in Turkey. In: Report of a Cereals Network Second Meeting, 21-24 April 2008, Foça, Turkey L. Maggioni, A. Katsiotis, H. Knüpffer and G. Kleijer, (compilers).
http://www.ecpgr.cgiar.org/Networks/Cereals/Cereals_Network_2ndMeeting_Draft_Feb09.pdf
6. Adanacioglu, N., Tan, A, Güzelsoy, Aysar, N., Aykas, L., Taş, N., Taylan, T., 2016. Traditional Uses of Wild Edible Plants for Health and Nutrition: A Case Study of Aegean Region of Turkey. The 4th International One Health Congress & 6th Biennial Congress of the International Association for Ecology and Health. 3 - 7 December, Melbourne, Australia (Poster). 6
7. Adanacioglu, N., Tan, A., Karabak, S., Güzelsoy, N., Ayas, F., Aykas, L., Taş, N., Taylan, T., 2017. Economically important wild mushroom saffron milk cap (*Lactarius deliciosus* (L.) Gray) of Aegean Region, Turkey. International Symposium on Biodiversity and Edible Wild Species, 3-5 April, Antalya. (Oral presentation).
8. Tan, A, Adanacioglu, N., Karabak, S., Aykas, L., Taş, N., Taylan, T., 2017. Biodiversity for food and nutrition: Edible wild plant species of Aegean Region of Turkey. International Symposium on Biodiversity and Edible Wild Species, 3-5 April, Antalya. (Oral presentation).
9. Tan, A, Adanacioglu, N., Karabak, S., Aysar, N., Tan, A. Ş., Aykas, L., 2017. Sea beets (*Beta vulgaris* subsp. *maritima*), wild edible and home garden beets of Turkey International Symposium on Biodiversity and Edible Wild Species, 3-5 April, Antalya. (Oral presentation).

▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

10. Tan, A., Aykas, L. G., Inal, A. 2003. Evaluation of beet (*Beta*) L. Species distributed in Turkey: Beta Section Beta. *Anadolu, J.of AARI*. 13 (1) 2003,1-16.
11. Tan, A., Aykas, L. G., Inal, A. 2003. Evaluation of beet (*Beta*) L. Species distributed in Turkey: Beta Section Corollinae. *Anadolu, J.of AARI*. 13 (2) 2003,1-16.
12. Tan A.Ş., Altunok Memiş A., Aldemir M, Yılmaz İ., Kartal H., Peksüslü A., Aykas L.,2016. Turkish Industrial Plants Genetic Resources. *Anadolu, J.of AARI*. 26 (1) 2016, 28-45.
13. Adanacioglu, N., Yildiz, U., Ogur, E., Aykas, L., Tan,A., Taylan,T., 2016. Genetic Resources of Macrofungi of Turkey I. Aegean Region *Journal of Anadolu* 26 (1), 46-61 (in Turkish)



Lerzan Gül AYKAS, MSc

Agricultural Engineer



▪ **National Papers, Seminars, etc.**

14. Taş, N. ve Aykas L.,2013. Characterization and Preliminary Evaluation of Natural Populations of Strawberry Clover (*Trifolium fragiferum* L.).Türkiye 10. Tarla Bitkileri Kongresi10-13 Eylül, Konya, 306--310.
15. Karagöz, A., Tan A., Özbek K., Yıldız A., Keskin E., Bilgin A., Aykas L., Deniz D. & Odası, Z. M. (2020). Current Situation and Future in the Field of Plant Genetic Resources in Agriculture. Türkiye Ziraat Mühendisliği IX. Teknik Kongresi Bildiriler Kitabı-1 s. 257-281.

▪ **OTHER PUBLICATIONS**

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

16. Aykas, L., Bingöl-Muş Rural Development Project and Investigation of Possible Effects of This Project on Muş Agriculture, 1990
17. Tan A., Aykas L., TAN A.Ş., İnal A. İnal Niksarlı F., Peşkircioğlu M., Dedeoğlu F., Keser M., Çakır S., Kara İ., Dayıoğlu R., Çelikoğlu F., Abay C.,2002 *In Situ* (on farm) Conservation of Turkey's Genetic Diversity (Final Report),TUBITAK-TOGTAG-2347. TUBITAK. Ankara
18. Aykas L. Country Report for the State of the World's Biodiversity for Food and Agriculture in Turkey Executive Summary, March 2016, FAO

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

1. Muş-Bingöl Rural Development Project and Agricultural Extension Training Program (IFAD), 1992, Egypt
2. Management of Natural Resources and Sustainable Use of Agricultural Diversity (ETAE, UNEP, ACSAD Bioversity, GDAR, ICARDA), 1993, İzmir
3. Collection and Conservation of Genetic Resources in Drylands (Bioversity, ICARDA), 1993, Jordan
4. In situ Conservation of Plant Genetic Resources Project Training Program, Birmingham University 1994, England
5. ECP/GR meeting of the *Solanaceae* Working Group 17-19th September 2004, Bari, Italy (Oral presentation)
6. CGIAR, IPGRI, ILRI, FAO, AARI, Training Workshop on Seed Handling in Genebanks, 26 to 28 June 2006, İzmir



Lerzan Gül AYKAS, MSc Agricultural Engineer



7. The workshop will be run by genebank experts from Consultative Group on International Agricultural Research (CGIAR) Centres (IPGRI and International Livestock Research Institute (ILRI)) and FAO.26-28 June 2006, İzmir
8. ECPGR Cereals Network Meeting, 21-24 April 2008, İzmir
9. Collection, Conservation, Characterization and Evaluation of Citrus Genetic Resources, Project TÜBİTAK, Abroad program in Spain, 28 Şubat-8 March 2009
10. Third ECPGR Vegetables Network Meeting 9-13 November 2009, Catania, Italy (Oral presentation)
11. Workshop of the ECPGR Documentation and Information Network, EPGRIS3 Activity 5-01, on National Inventories on Ex Situ Plant Genetic Resources, 29-30 June 2009, Prague, Czech Republic (Oral presentation)
12. Fourth meeting of the ECPGR Working Group on Medicinal and Aromatic Plants, 29 September - 1 October, 2009 Kuşadası, Aydın
13. Regional Consultation for North Africa, Near East and Central Asia on the Updating of the Global Plan of Action on the Conservation and Sustainable Use of PGRFA 2-3 November 2010, ICARDA Aleppo, Syrian Arab Republic
14. Conservation strategies for European crop wild relative and landrace diversity, 7-9 September 2011, Palanga, Lithuania (Oral presentation)
15. The Near East & North Africa Plant Genetic Resources Network (NENA-PGRN), For the Joint ECPGR / NENA workshop on the ITPGRFA implementation, 28-29 September 2011, İzmir
16. Genbank Management and Biological Diversity, IARTC, MFAL, İzmir, 2012
17. FAO Global Agricultural Heritage Systems (GIAHS) Workshop, March 2012, Şanlıurfa
18. *Solanaceae* Database Managers and First Meeting of the ECPGR *Solanaceae* Working Group 14-17 February 2012, İzmir
19. Biological Diversity Convention Cross-cutting Issues 1st Working Group Meeting 18 July 2012, İzmir
20. Japan-Turkey-Afghanistan collaboration Workshop, SATREPS, JICA, JST, 23-25 Ocak 2013 İzmir
21. Documentation of Field Gene Banks course 23-24 November 2015, İzmir (As a trainer)
22. TAGEM Turkey Seed Gene Banks Plant Genetic Resources Workshop, 24-25 March 2016 Ankara
23. 4nd International Course on Genebank Management and Biodiversity Conservation- UTAEM, İzmir 2016 (As a trainer)



Lerzan Gül AYKAS, MSc Agricultural Engineer



24. *Ex-situ* Conservation of Plant Genetic Resources Project EXPO 2016, Antalya
25. 5th International Course on Seed Gene Bank Management & Plant and Macro Fungus Genetic, (8-12 May 2017, İzmir (As a trainer)
26. TAGEM Genetic Resources Meeting, 02-04 August 2017, Ankara
27. CGIAR and ECPGR members Gene Banks Meeting, 13-14 September 2017, Meise - Belgium,
28. 9^t Alaçatı Herb Festival 5-8 April 2018, Çeşme, İzmir
29. Our Landraces, Our Local Values Meeting, 14 March 2018, İzmir (Oral presentation)
30. ECPR Documentation and Network Training Workshop, Gatersleben, 9-11 October 2018, Germany (Oral presentation)
31. Training Workshop on the assignment of Digital Object Identifiers (DOIS) for Plant Genetic Resources within the Global Information System, 6-8 November 2018, Tunisia, Tunisia,
32. Closing meeting of Mainstreaming Biodiversity Conservation and Sustainable Use for Improved Human Nutrition and Well-being(Biodiversity for Food and Nutrition Project and Biodiversity Panel for Nutrition and Food 30 January - 02 February 2019
33. Economic Cooperation Organization, Access and Benefit Sharing Experts Group Meeting, 11-13 March 2019 Belek-Antalya (Oral presentation)
34. National Botanical Gardens, Arboretums, Herbariums and Botanical Museums Workshop, 18-21 April 2019, Düzce (Oral presentation)
35. Seed Science and Archaeobotanical Research in Anatolia (poster) 23 -26 September 2019 Izmir
36. Workshop on Development of National Gene Banks In Oic Member States 2020, Dubai, United Arab Emirates, 5-6 July (Oral presentation)
37. Women Farmer Workshop 09 March 2020, İzmir
38. FAO Commission on Genetic Resources for Food and Agriculture (CGRFA) 18th Session, Turkey Delegate, Online, 23 September-1 October 2021
39. TÜRKTOB Sustainable Agriculture in Turkey: Conservation and Use of Seed Genetic Resources and Seed Panel, Online, 27-28 May 2021
40. Collection of Plant Genetic Resources, Conservation, Evaluation and Herbarium Preparation Techniques Training (every year since 1995 As a trainer)