

Prof Dr. Yalcin KAYA

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EDUCATION:

<u>YEARS:</u>	<u>GRADUATED SCHOOL:</u>	<u>DEGREE:</u>
1980-1983	Kepirtepe Teacher High School	Diplomas
1983-1987	Uludag University Agriculture Faculty Field Crops Department – Bursa, Turkey	B Sc
1996-1998	Nebraska University Agronomy Department - Lincoln, NE, USA	M Sc
1999-2001	Trakya University Agriculture Faculty Field Crops Department – Tekirdag, Turkey	Ph D
2004	USDA Sunflower Research Unit, Fargo, ND, US	Post Doctorate
2011	The Council of Higher Education	Associated Professor
2016	Trakya University Genetic and Bioengineering Dept	Professor Dr.

WORKING EXPERIENCE

<u>DUTY PLACE</u>	<u>TITLE</u>	<u>Date From</u>	<u>Date To</u>
Aksaray Province Extension Center	Extension Specialist	01.06.1990	18.04.1994
Trakya Agricultural Research Institute	Researcher	18.04.1994	20.12.1998
Trakya Agricultural Research Institute, Ministry of Agriculture, Edirne, Turkey	National Sunflower Research Coordinator and Project Leader	20.12.1998	28.11.2013
Trakya Agricultural Research Institute	Deputy Director	18.05.2001	14.07.2013
Plant Breeding Research Center -Trakya University, Edirne, Turkey	Director	14.03.2014	-
Trakya University Engineering Faculty, Genetic & Bioengineering Department	Head of Department	07.07.2014	-

PROJECTS CARRIED AS LEADER

<u>PROJECT NAME</u>	<u>Starting</u>	<u>Finished</u>
The Project of Development of Sunflower Hybrids	1999	2001
Turkey Oil Crops Adaptation Project	2001	2003
Development of Confectionery Sunflower Cultivars Project	2001	2009
The Project of Determining New Orobanche Races Infested Area in Trakya Region and Developing Resistant Sunflower Hybrids and Lines Against These Races	2001	2009
GAP Oil Crops Integrated Crop Management Project	2001	2005

The Project of Development of Sunflower Hybrids	2002	2005
National Sunflower Integrated Crop Management Project	2004	2008
The Project of Development of Sunflower cultivars (Oil type, Confectionery type, Broomrape and IMI herbicide resistant)	2009	2013
The determination of resistant genes against broomrape which is problem in sunflower utilizing molecular markers (BAP PROJECT)	2014	2015
The development of broomrape (<i>Orobanche cumana</i> Wallr.) Resistant and high oleic acid type sunflower (<i>H. annuus</i> L.) Inbred lines utilizing classical and molecular breeding methods (TUBITAK 1003-14O971)	2015	2018
The development of IMI herbicide resistant sunflower (<i>Helianthus annuus</i> L.) lines against broomrape and downy mildew (TAGEM PRIVATE SECTOR PROJECT)	2016	2018
The Use of Molecular Markers on Determining of Downy Mildew Resistance in Sunflower (TU BAP) 58.510 TL	2016	2017
The determining resistant sunflower genotype to downy mildew utilizing from molecular markers (TU BAP) 15.000 TL	2016	2017
Determination DNA Content of some Sunflower Wild Species (TU BAP) 15.000 TL	2018	2019
Molecular Phylogenetic Analysis of Subtribe <i>Anthemidinae</i> (<i>Asteraceae</i>) Growing in Trakya Region (TU BAP) 30.000 TL	2018	2020
The Confectionery Sunflower Hybrid Breeding (1507 TUBITAK PROJECT) 308.888 TL	2019	2020
The Determination of DNA Contents and Ploidy Levels of Wild Species and Interspecific Hybrids utilizing Flow Cytometry and Evaluation of some Yield Traits (Turkey and Bulgarian Bilateral TUBITAK PROJECT) 488.888 TL	2019	2022
The Phylogenetic Analysis of Wild Sunflower Species (<i>Helianthus spp</i>) with Molecular and Classical Methods (TU BAP) 80.000 TL	2020	2022
Genome-Wide Association (GWA) Mapping of Mildew Resistance in Sunflower (TU BAP) 40.000 TL	2020	2022

HONORS AND AWARDS

- **The Best Performed Academician in 2018** by Trakya University
- **The Best Performed Academician in 2017** by Trakya University
- **The Best Plant Breeder in Turkey, 2017** by Turkish Plant Breeders Union
- **The Best Performed Academician in 2016** by Trakya University
- **Diploma of Honor, 2015** by Academy of Sciences of Moldova
- **Doctorate of Honoris Causa, 2014** by The University of Academy of Sciences of Moldova
- **The Best Agronom in Turkey in 2012** by Turkish Agricultural Engineers Union
- **The Best Government Officer in Edirne in 2011** by Turkish Government Officers Union, Edirne

SCHOLARSHIPS

- Master of Science in US, 1996-1998 National Extension Project by World Bank
- Post Doctorate in US, 2004 TUBITAK Project by NATO Fellowship

PUBLICATIONS

In SCI Journals:

- A1. Kaya Y., G. Evcı, S. Durak, V. Pekcan, T. Gücer. 2007.** Determining the Relationships between Yield and Yield Attributes in Sunflower. **Turkish Journal of Agricultural and Forestry.** 31: 237-244.
- A.2 Kaya, Y., G. Evcı, S. Durak, V. Pekcan, T. Gücer. 2009.** Yield components affecting seed yield and their relationships in sunflower (*Helianthus annuus* L.). **Pakistan Journal of Botany.** 41(5): 2261-2269.
- A.3 Kaya, Y., G. Evcı, V. Pekcan, T. Gücer, I. M. Yılmaz. 2009.** The determination of the relationships between oil yield and other yield traits in sunflower. **Ankara University Agricultural Science Journal.** 15 (4): 310-318.
- A.4 Semerci, A., Y. Kaya, K. Peker, I. Sahin, N. Citak, 2011.** The analysis of sunflower yield and water productivity in Trakya region. **Bulgarian Journal of Agricultural Science,** 17: 207-217.
- A-5 Kaya, Y., A. S. Balkan Nalçaiyi, Ş. Çulha Erdal, O. Arslan, N. Cicek, V. Pekcan, G. Evcı, M. I. Yılmaz, Y. Ekmekci. 2016.** Evaluation of Male Inbred Lines of Sunflower (*Helianthus annuus* L.) for Resistance to Drought via Chlorophyll Fluorescence. **Turkish Journal of Field Crops.** 21 (2): 162-173
- A-6 Rauf, S., Jamil, N., Ali Tariq, S., Khan, M., Kausar, M., Y Kaya. 2017.** Progress in Modification of Sunflower Oil to Expand its Industrial Value. **Journal of Science of Food and Agriculture.** 97:1997-2006.
- A-7 Çiçek, N., V. Pekcan, Ö. Arslan, Ş. Çulha Erdal, A. S. Balkan Nalçaiyi, A. N. Çil, V Şahin, Y. Kaya, Y. Ekmekçi. 2019.** Assessing drought tolerance in field-grown sunflower hybrids by chlorophyll fluorescence kinetics. **Brazilian Journal of Botany.** 7(25): 1-12.
- A-8 Arslan, Ö., A. S. Balkan Nalçaiyi, Ş. Çulha Erdal, V. Pekcan, Y. Kaya, N. Çiçek, Y. Ekmekçi. 2020.** Analysis of drought response of sunflower inbred lines by chlorophyll a fluorescence induction kinetics. **Photosynthetica.** 58 (SI): 163-172.
- A-9 Aşkın, B., Kaya, Y. 2020.** Effect of deep frying process on the quality of the refined oleic / linoleic sunflower seed oil and olive oil. **J Food Sci Technol.** 57(12):4716–4725
- A-10 Pekcan, P., Yılmaz M. I., Evcı G., Cil A. N., Sahin V., Gunduz O., Koc, H., Kaya, Y. 2021.** Oil content determination on sunflower seeds in drought conditions. **Journal of Food Processing and Preservation.** <https://doi.org/10.1111/jfpp.15481>
- A-11 Aşkın, B., Ozturk, D., Durusoy, B., Kaya, Y. 2021.** Properties of yogurt fortified with capsaicin extracts dissolved in high oleic sunflower oil. **Journal of Food Processing and Preservation.** <https://doi.org/10.1111/jfpp.15633>

Editors in Scientific Books:

- C-1 **Kaya, Y. 2021. Sunflower Production.** Tarım Gündem Journal, Nobel Publishing. 140 pages

Contributed Book Chapters:

- C-1 Hovhannisian, A., M. Wurzinger, S. Ali, A. A. Rafea, M. A. M. Gad, A. Emara, J. Albergel, C. D. Diane, A. Gana, S. Tozanli, H. Siadat, S. M. Alayyash, R. Al-Zubi, M. Duwayri, M. Y. Hindiyeh, L. Qaryouti, R. S. Shatnawi, R. Litvak, R. A. Abijaoude, M. Moussaoui, Y. Al Akhzami, D. Al-Yahyai, A. M. Omezzine, I. Ahmad, M. A. Ali, Y. Memon, F. Panhwar, S. W. Pirzada, A. Suleri, A. Wagha, J. A. Omar, J. E. Isaac, T. Hijawi, N. Mizyed, A. Saleh, A. T. Ayoub, A. El Karib, A. Majok, A. S.M. El Wakeel, C. Studer, N. Chachaty, A. Galie, S. Grando, T. Y. Oweis, M. Qadir, K. H. Shideed, S. S. Rajabovich, M. Annabi, R. B. Zid, M. Guellouz, K. Latiri, L. Zaibet, G. Eraktan, **Y. Kaya**, A. Tan, A. Uncuoglu, F. Yavuz, S. Kazmi, A. Z. El-Abdin, S. Djalalov, A. A. Tashmatov. **2009. Agriculture at a Crossroads; v.1: Central and West Asia and North Africa.** International Assessment of Agricultural Knowledge, Science and Technology for Development. Ed: Beverly McIntyre *et al.* **Island Press. 198 pages.**
- C-2 **Kaya, Y., et al. 2009. Agriculture at a Crossroads: Synthesis Report. A Synthesis of the Global and Sub-Global IAASTD Reports.** International Assessment of Agricultural Knowledge, Science and Technology for Development (IAASTD). Ed: Beverly D. McIntyre, Hans R. Herren, Judi Wakhungu, Robert T. Watson. **Island Press. 106 pages.**
- C-3 **Kaya Y., S. Jovic, D. Miladinovic. 2012. Sunflower.** S.K. Gupta. (Ed) **Technological Innovations in Major World Oil Crops, Vol. 1.** Springer Press. 85-129.
- C-4 **Kaya Y., 2014. Sunflower.** A. Pratap. (Ed) **Alien Gene Transfer in Crop Plants, Vol. 2.** Springer Press. 281-315.
- C-5 Jovic, S., D. Miladinovic, **Kaya Y.** 2015. **Breeding and Genetics of Sunflower.** N. Dunford, E. M. Force (Ed) **Sunflower: Chemistry, Production, Processing, and Utilization.** 710 pages. American Oil Chemistry Society (AOCS). 1-26.
- C-6 **Kaya, Y., I. Balalic, V. Miklic. 2015. Eastern Europe Perspectives on Sunflower Production and Processing.** N. Dunford, E. M. Force (Ed) **Sunflower: Chemistry, Production, Processing, and Utilization.** 710 pages. American Oil Chemistry Society (AOCS). 575-638.
- C-7 **Kaya, Y. 2016. Sunflower.** Surinder Gupta (Ed.). Breeding Oilseed Crops for Sustainable Production, 1st Edition. 570 pages. Elsevier Press. 55-88.
- C-8 Arslan, B., **Kaya, Y., 2019.** Hibrit Ayçiçeği Tohumluk Üretimi ve Sertifikasyonu. **Tohumculuk ve Tohum Teknolojileri. 4 Cilt, 839-374. BISAB. Ankara. 2154 pages.**
- C-9 **Kaya, Y., N. Beşer. 2020. Modern Techniques in Crop Improvement: Conventional and Biotechnological Approach.** In: Recent Advances in Plant Science. Editors: F. Vardar, Y. Aydın, A. Altinkut Uncuoglu. Nova Science Publishers, Inc. 137-162.
- C-10 **Kaya, Y., N. Beşer. 2020. Modern Techniques in Crop Improvement: Molecular and Genomic Approach.** In: Recent Advances in Plant Science. Editors: F. Vardar, Y. Aydın, A. Altinkut Uncuoglu. Nova Science Publishers, Inc. 163-196.
- C-11 **Kaya, Y., R. Vasilevska-Ivanova. 2021. Wild Sunflowers: The Primary Genetic Resource for Sunflower Breeding.** In: Wild Germplasm for Genetic Improvement in Crop Plants. Editors: M. T. Azhar, S. H. Wani. Elsevier Academic Press Publishers, Inc. 153-186.
- C-12 **Kaya, Y. 2021. The Importance, Stiuation, Origin and History of Sunflower in Turkey and in the World.** Editor Y. Kaya. Sunflower Production. Tarım Gündem Journal, Nobel Publishing. 8-18.

- C-13 Kaya, Y., S. Süzer, 2021. Sunflower Production Practises.** Editor Y. Kaya. Sunflower Production. Tarım Gündem Journal, Nobel Publishing. 19-32.
- C-14 Bakanoğullari, F., Gürbüz, M. A., Kaya, Y. 2021. Fertilizing in Sunflower.** Editor Y. Kaya. Sunflower Production. Tarım Gündem Journal, Nobel Publishing. 33-58
- C-15 Orta, H., Kaya, Y. 2021. Irrigation in Sunflower.** Editor Y. Kaya. Sunflower Production. Tarım Gündem Journal, Nobel Publishing. 59-66
- C-16 Uludağ, A., Üremiş, İ., Kaya, Y. 2021. Weed Management in Sunflower.** Editor Y. Kaya. Sunflower Production. Tarım Gündem Journal, Nobel Publishing. 101-125
- C-17 Kaya, Y., N. Beşer. 2021. Confectionery Sunflower Production.** Editor Y. Kaya. Sunflower Production. Tarım Gündem Journal, Nobel Publishing. 126-134.

COURSES ATTENDED

a) In the Abroad

Subject	Duration	Place	Time
The situation Analysis and Diagnostic Survey Applications in Farming Systems	35 Days	Florida University, Gainesville FL, USA	February-March 1993
M Sc (Plant Breeding and Genetics)	2 Years	Nebraska University Lincoln, NE, USA	August,1996-August, 1998
Post Doctorate at Sunflower Biotechnology and Molecular Gene Mapping	6 Months	North Dakota State Un, USDA ARS Northern Crops Science Lab Fargo ND, USA	March-September, 2004

b) In Turkey

Subject	Duration	Place	Time
Modern Education Tools	5 Days	DAGMEM-Ankara	February, 1991
The Farm Situation Analysis	2 Days	Kayseri Extension Center	January, 1992
The situation Analysis Evaluation	2 Days	TUGEM – Ankara	January, 1992
Technology Transfer in Agriculture	3 Days	TARM – Ankara	February, 1992
Cereals-Legumes and Fallow Rotation Systems	2 Days	TARM - Ankara	March, 1992
Field Crops Pests and Diseases	5 Days	Plant Protection Research Institute - Ankara	March, 1992
Irrigation Mechanization	5 Days	Soke Agricultural High School	April, 1992
Cereal and Legumes Production	4 Days	TARM- Ankara	June, 1992
Diagnostic Survey	10 Days	Kirsehir Extension Center	July, 1992
Diagnostic Survey Evaluation	2 Days	Kirsehir Extension Center	July, 1992
Demonstration Techniques	2 Days	TARM - Ankara	August, 1992
The Situation Analysis and Diagnostic Survey Improvement	4 Days	TUGEM - Ankara	November,1992
Fertilization in Potato	2 Days	Nevsehir Extension Center	April, 1993
Weeds and Management	2 Days	Ankara Plant Protection Res In	April, 1993
UNIX Network Systems	5 Days	Ankara Extension Center	June,1993
Soil, Plant and Water Relations	4 Days	Ankara Rural Services Res. Inst.	June, 1993
Corn Production	3 Days	Corn Research Inst - Sakarya	September,1993
Agricultural Mechanization	3 Days	DAGMEM - Ankara	September,1993

English Course	6 Months	Turkish - British Culture Association - Ankara	December,1993 - May, 1994
TOEFL English Course	3 Months	Turkish-US Culture Association - Ankara	April - May 1995
Agricultural Insurance	2 Days	TSV - Tekirdag	October 1998
Computer Network Systems	5 Days	DATASEL – Ankara	November,1998
Ph D (Plant Breeding and Genetics)	3 Years	Trakya Un. Agriculture Faculty Field Crops Dept. Tekirdag	January, 1999 – December,2001
Business Administration	15 Days	TKB Gumuldur - Izmir	September 2000
TUBITAK Panelist Training	1 Day	Trakya University, Edirne	December 2015

MEMBERSHIP OF ASSOCIATIONS:

1. Turkish Agricultural Engineer Association (**Edirne Province Representative**).
2. Turkish Agricultural Engineer Chamber.
3. Turkish Community Association-Edirne (**Ex-President**).
4. The Union of Turkish Agriculture Government Officials – Edirne (**Ex-President**)
5. Trakya Balkan Turkish Immigrant Solidarity Association-EDIRNE (**Board Member**).
6. Turkish Plant Breeder Association (**Founder President, Vice President**).
7. Turkish Plant Breeders Union (**Ex President**)
8. Turkish Seed Union (TURKTOB)
9. European Federation of Biotechnology (EFB)
10. Turkish Field Crops Society
11. European Association for Research on Plant Breeding (EUCARPIA)
12. Edirne Rumeli Culture and Folklore Association
13. Saray Farmer Association
14. Trakya Oil Crop Grower Association (TRAKYA BIRLIK)
15. Balkan Turkish Federation (**Ex Board Member**)
16. Black Sea Biotechnology Association (BSBA) (**Board Member**)
17. International Sunflower Association (**Ex President**)
18. Edirne Culture and Solidarity Association
19. Kecipirtepe High School Solidarity Association (**Ex Board Member**)
20. Turkish Government Officers Solidarity Association (**Ex Board Member**)
21. The International Parasitic Plant Society
22. American Oil Chemistry Association (AOSC)
23. International Association of Chemical, Biological & Medical Sciences Researchers (CBMSR)