



**TAGEM**  
R&D AND INNOVATION

BLACK SEA AGRICULTURAL RESEARCH  
INSTITUTE / SAMSUN

## ASSOC. PROF. DR. İDRİS MACİT

### Agricultural Engineer (PhD)

#### EDUCATION

- Assoc. Prof. Dr.** 2022  
Inter-universities Council  
Horticultural Cultivation and Breeding
  - PhD** 2008-2016  
Ondokuz Mayıs University  
G. School of Natural and Applied Sc.
  - MSc** 2002-2005  
Ondokuz Mayıs University  
G. School of Natural and Applied Sc.
  - Bachelor's Degree** 1985-1989  
Cumhuriyet University, Tokat Faculty of  
Agriculture, Department of Hort.
- LANGUAGE** English UDS 62,50


#### CAREER

- 21.09.2020- ... Researcher at The Black Sea Agricultural  
Research Institute, SAMSUN
- 21.11.2012- 21.09.2020 Researcher and Deputy Technical  
Manager at The Black Sea Agricultural Research Institute,  
SAMSUN
- 14.01.2011-21.11.2012 Researcher and Head of Horticulture  
Department at The Black Sea Agricultural Research Institute,  
SAMSUN
- 2001- 2011 Researcher at The Black Sea Agricultural Research  
Institute, SAMSUN
- 1996-2000 The Ministry of National Education, TOKAT


#### ABOUT ME

I was born in Çarşamba in 1964. I completed my primary and secondary education in Çarşamba and I graduated from Cumhuriyet University, Tokat Faculty of Agriculture, Department of Horticulture in 1989. After working in the Ministry of National Education for a while, I was appointed to the Ministry of Agriculture and Forestry in 2000. Since 2001, I have been carrying out research projects in the field of fruit breeding and cultivation techniques at the Black Sea Agricultural Research Institute. During this period, I also served as Head of Horticulture Department and Deputy Technical Manager. I have participated in many scientific meetings in my field and have published papers and articles in many national and international journals, speak English at an intermediate level.

#### CONTACT

 Karadeniz Tarımsal Araştırma Enstitüsü  
Çiftlik Mah. Atatürk Bulvarı No: 313  
(Samsun - Ordu Karayolu 17. km),  
Gelemen, Tekkeköy / SAMSUN  
55300 TÜRKİYE

 idris.macit@tarimorman.gov.tr

 +90 362 256 05 14



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### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Determination of cherry gene sources in Giresun, homeland of cherries, TÜBİTAK, 2005-2008 (Asst. Research)
2. Detection of biodiversity between raspberry and blackberry genotypes in the natural flora of the Central and Eastern Black Sea Region with morphological, phytochemical, molecular markers and protection of gene resources, TÜBİTAK, 2007-2010 (Asst. Research)
3. Investigation of the possibilities of using cover crops to combat weeds in some orchards, TÜBİTAK, 2012-2014 (Asst. Research)
4. Applicability of new finishing systems for cherries in Turkey, TÜBİTAK, 2013-2017 (Asst. Research)
5. Information sharing on innovative soil and plant monitoring technologies in the cultivation and fertigation of fruit trees, TÜBİTAK, 2013-2014 (Asst. Research)
6. Organic strawberry cultivation in the Black Sea Region, TAGEM, 2004-2006 (Project leader)
7. Amasya apple selection II, TAGEM, 2001-2012 (Asst. Research)
8. Persimmon selection II, TAGEM, 2001-2010 (Asst. Research)
9. Investigation of rootstock and cultivar adaptations with the application of modern fruit growing techniques in the Central Black Sea Region, TAGEM, 2001-2007 (Asst. Research)
10. Black Sea Region walnut adaptation trial, TAGEM, 2001-2008 (Asst. Research)
11. Currant, raspberry and blackberry cultivar breeding, TAGEM, 2001-2007 (Asst. Research)
12. Investigation of eye management in cherry, apple and peach, TAGEM, 2011- 2019 (Project leader)
13. Pruning and shaping training on different rootstocks, EYDB, 2012-2014 (Project leader)
14. Introduction of Amasya apple variety and teaching tree management to our farmers, EYDB, 2015- 2017 (Project leader)
15. Applicability of modern treatment systems in peach in our country, TÜBİTAK 2016-2020, (Asst. Research)
16. Pruning and finishing practices in fruit trees (cherry) training project, EYDB, 2019-2021 (Project leader)

#### ▪ **Ongoing Projects**

1. The Black Sea Region fruit genetic resources research, TAGEM, 2004- Continuous (Project leader)
2. Determination of the most appropriate irrigation program in the peach cultivation of Çarşamba plain TAGEM, (Asst. Research)
3. Determination of the most suitable irrigation program in the pear cultivation of Çarşamba plain TAGEM, (Asst. Research)
4. Determination of the appropriate cultivation systems for greenhouse cherry cultivation in Turkey TÜBİTAK, 2020-2023 (Asst. Research)



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### ■ PUBLICATIONS

#### ■ INTERNATIONAL ARTICLES AND PAPERS

#### ■ Articles Published in International Journals

1. Güler, S., Macit, İ., Koç, A., İbrikçi, H., 2006. Estimating Leaf Nitrogen Status of Strawberry by Using Chlorophyll Meter Reading. *Journal of Biological Sciences*, 6(6): 1011-1016
2. Güler, S., Macit, İ., Koç, A., İbrikçi, H., 2006. Monitoring Nitrogen Status of Organically-grown Strawberry Cultivars by Using Chlorophyll Meter Reading. *Asian Journal of Plant Biological Sciences*, 5(5): 753-757
3. Macit, İ., Koç, A., Güler, S., Deligöz, İ., 2007. Yield, Quality and Nutritional Status of Organically and Conventionally-grown Strawberry Cultivars. *Asian Journal of Plant Sciences*, 6(7): 1131-1136
4. Akbulut, M., Macit, İ., Ercişli, S., Koç, A., 2007. Evaluation of 28 cherry laurel (*Laurocerasus officinalis*) genotypes in the Black Sea region, Turkey. *New Zealand Journal of Crop and Horticultural Science*, vol 35: 363-365 (SCI)
5. Demirsoy, L., Demirsoy, H., Celikel, G., Macit, İ., Ersoy, B., 2011. Seed treatment with GA3 or stratification enhances emergence of some strawberry tree genotypes. *Horticultural Science* 37 (1), 34-37 (SCI)
6. Demir T., Demirsoy, L., Demirsoy, H., Kaçar, Y.A., Yılmaz, M., Macit, İ., 2011. Molecular characterization of sweet cherry genetic resources in Giresun, Turkey. *Fruits*, 66:53-62 (SCI)
7. Macit, İ., Demirsoy, H., 2012. New Promising Cherry Laurel (*Prunus laurocerasus* L.) Genotypes in Turkey. *Bulg. J. Agric. Sci.*, 18: 77-82 (SCI)
8. Paltineanu, C., Septar, L., Chitu, E., Moale, C., Demirsoy, H., Koksall, E.S., Macit, İ., 2014. Estimating Soil Moisture Status in Peach Tree Orchards by Using Crop Water Stress Index, *Fruit Growing Research*, Vol. XXX.
9. Septar, L., Chitu, E., Moale, C., Demirsoy, H., Koksall, E.S., Kızılkaya, R., Macit, İ., 2014. Canopy temperature for peach tree at various soil water contents, *Eurasian Journal of Soil Science*, 3: 56 – 64.
10. Işık D., Dok M., Ak K., Macit İ., Demir Z., Mennan H., 2014. Use of cover crops for weed suppression in hazelnut (*Corylus avellana* L.) in Turkey. *Commun. Agric. Appl. Biol. Sci* 79, 105-110.
11. Demirsoy, H., Macit, İ., Demirsoy, L., 2016. Training Systems in Cherries. *ANADOLU, J. of AARI*, 25(1)55-62.
12. Demirsoy, H., Köse, D., Macit, İ., Demirsoy, L., 2016. A New Training System in Cherries: UFO. *ANADOLU, J. of AARI*, 26(1) 72-80.
13. Macit, İ., Lang, G.A., Demirsoy, H., 2017. Bud management affects fruit wood, growth, and precocity of cherry trees. *Turkish Journal of Agriculture and Forestry*, 41: 42-49 (SCI)
14. Lerzan AYKAS, KAFA Güçer, UZUN Mehmet, Adnan DOĞAN, Mehmet ÖZDEMİR, UĞUR Remzi, Erol KÜÇÜK, Turgay SEYMEN, Hüseyin VURGUN, Hüseyin İrfan BALIK, Mehmet ÇİÇEK, Şule SARIÇAM, AYAR Arzu, İdris MACİT, Nedim GÜLTEKİN, Metin KESGİN, Kürşat ÖZYURT, Tamer UYSAL, KAYA Hülya. 2018. Türkiye land gene banks. *ANADOLU, J. of AARI* 28 (2), 76-87.
15. Seçmen, S., Aydın, E., Macit, İ., Soysal, D., Demirsoy, H., 2018. The effects of central leader training system on growth, yield and quality of peaches.. *ANADOLU, J. of AARI*, 33.
16. Macit, İ., Serdar, U., Er, E. and Akyuz, B., 2018. Some chestnut interspecific hybrids from Turkey. *Acta Hort.* 1220, 67-70 DOI: 10.17660/ActaHortic.2018.1220.
17. Işık, D., Türkmen, G., Demir, Z., Macit, İ., 2018. The Effects of Some Cover Crops on Yield and Quality in Semi-Dwarf Apple Orchards. *Journal of Institute of Science and Technology*, sayı 2, cilt 34.



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18. Soysal, D., Demirsoy, L., Macit, İ., Lang, G., Demirsoy, H., 2019. The applicability of new training systems for sweet cherry in Turkey, *Turkish Journal of Agriculture and Forestry*, 43: 318-325 (SCI)
19. Macit, İ., Kale, K., Demir, Z., Dok, M., Ak, K., Isik, D., 2020. Investigation of the Effects of Some Cover Plants on Yield and Fruit Quality of Persimmon (*Diospyros kaki* L.). *Türkiye Journal of Agricultural Research*, cilt 7, sayı 2, s. 128-135.
20. Macit, İ., Isik, D., 2021. Effects of Cover Crops on Yield and Quality of Kiwifruit. *Journal of the American Pomological Society* 75(2): 63-71 (SCI)
21. Macit, İ., Aydın, E., Tas, A., Gundogdu, M., 2021. Fruit Quality Properties of the Local Apple Varieties of Anatolia. *Sustainability*, 13(11), 6127 (SCI)
22. Macit, İ., 2021. Evaluation of agronomic, bioactive and element status of promising cherry laurel (*P. laurocerasus*) accessions in the genetic collection by multivariate analysis. *Scientia Horticulturae*, 287, 110253 (SCI)
23. Aydın, E., Macit, İ., Akyüz, B., Serdar, Ü., Gundogdu, M., 2021. Nut Quality Characteristics and Mineral Content of Chestnut Germplasm from Diverse Sources *Journal of the American Pomological Society*, 75(4): 237-246 (SCI)
24. Macit, İ., Aydın, E., 2021. A preliminary study on some fruit characteristics of local apple genotypes selected from Sinop and Kastamonu provinces. *ANADOLU, J. of AARI* ISSN: 1300-0225 (Print) E-ISSN: 2667-6087 (Online) 31 (2): 245-251. DOI: 10.18615/anadolu.1033619

### ▪ International Papers, Seminars, etc.

1. Demirsoy, H., Demirsoy, L., Demir, T., Macit, İ., Kurt, H., 2006. Determination of Cherry Gene Resources in Giresun, Homeland of Cherry. 1st International Non-Wood Forest Products Symposium, 448-453
2. Macit, İ., Koç, A., Akbulut, M. 2006. Determination of yield and quality characteristics of some strawberry cultivars in Samsun coastal conditions. II. National Symposium on Berries, 14-16 September 2006, Tokat.
3. Serdar, U., Macit, İ. 2009. New Advances in Chestnut Growing in the Black Sea Region, Turkey. *Acta Hort.* , 866: 303-308. ISHS 2010, 1st European Congress on Chestnut – Castanea.
4. Serdar, U., Demirsoy, H., Macit, İ., Ertürk, U., 2010. Graft Compatibility In Some Turkish Chestnut Genotypes (*C. Sativa* Mill.). *ISHS Acta Horticulturae* 866: I European Congress on Chestnut.
5. Köse, D., Demirsoy, L., Demirsoy, H., Macit, İ., 2013. Characterization of Cherry Genotypes from North Anatolia. *Acta Hort.* 1161. ISHS 2017. DOI 10.17660/ActaHortic.2017.1161.50. VII International Cherry Symposium.
6. Demirsoy, H., Demirsoy, L., Macit, İ., Akçay, M. E., Baş, M., Demirtaş, İ., Sarısu, C., Taner, Y., Kuden, A., 2013. Sweet Cherry Growing in Turkey. *Acta Hort.* 1161. ISHS 2017. DOI 10.17660/ActaHortic.2017.1161.19. VII International Cherry Symposium
7. Işık D., Dok, M., Ak K., Macit İ., Demir Z., Demir Z., Mennan H., 2013. "Possible Use Of Cover Crops In Weed Control On Kiwi Orchards In Black Sea Region Of Turkey", Joint Workshop Of The Ewrs Working Groups: Novel and Sustainable Weed Management in Arid and Semi-arid Agro Ecosystems and Weed Mapping, Chania, YUNANISTAN, 29 Eylül , pp.45-45.
8. Işık D., Dok M., Ak K., Macit İ., Demir Z., Mennan H., 2015. "Cover Crops For Weed Suppression In Semi-Dwarf Apple Orchards In Turkey", 50th Croatian and 10th International Symposium on Agriculture, Opatija, HRVATISTAN, vol.-, no.-, pp.265-265
9. Demirsoy, H., Köse, D., Macit, İ., 2015. Stone Fruits in Turkey: A Brief Overview, III Balkan Symposium on Fruit Growing.
10. Köse, D., Macit, İ., Demirsoy, L., Demirsoy, H., 2015. Sık dikim kiraz yetiştiriciliğinde bahçe yönetiminin önemi, Çanakkale VII. Bahçe Bitkileri Kongresi.



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11. Serdar, Ü., Macit, İ., Er, E., Akyüz, B., 2015. Some Interspecific Hybrid Chestnut Genotypes from Turkey. Third Balkan Symposium on Fruit Growing 16-18 September 2015, Belgrade-Serbia.
12. Macit, İ., 2016. The Effect of Bud Management on Growing and Development in Cherries. XI Orchard Systems Symposium "Integrating Canopy, Rootstock and Environmental Physiology in Orchard Systems" Bologna, Aug. 28 – Sept. 2, 2016
13. Macit, İ., Aydın, E., Soysal, D. and Demirsoy, H. 2018. Comparison of tall spindle axes and vogue central leader systems in cherry. Acta Hort. 1281. ISHS 2020. DOI 10.17660/ActaHortic.2020.1281.30 XXX IHC – Proc. Int. Symp. on Evaluation of Cultivars, Rootstocks and Management Systems for Sustainable Production of Deciduous Fruit Crops
14. Macit, İ., Demirsoy, L., Aydın, E., Soysal, D. and Demirsoy, H. 2018. Characterization of cherry genotypes from Black Sea Region, ISHS Acta Horticulturae 1297: XXX International Horticultural Congress IHC2018: V International Symposium on Plant Genetic Resources and International Symposium on Applied Functional Molecular Biology
15. Macit, İ., Serdar, U., Er, E. and Akyüz B., 2017. Some chestnut interspecific hybrids from Turkey. Acta Hort. 1220. ISHS 2018. DOI 10.17660/ActaHortic.2018.1220.10 Proc. VI International Chestnut Symposium 9-13 October 2017, Samsun Turkey,
16. Macit, İ. 2019. Breeding by Selection Method of Local Apple Varieties Cultivated in Sinop and Kastamonu Provinces. II. 2nd International Agriculture Congress, 21-24 November 2019 / Ayaş / Ankara / Türkiye.
17. Demirsoy, H., Aydın, E., Soysal, D., Macit, İ., Demirsoy, L., 2019. Preliminary results of the evaluation of some sweet cherry genotypes from Turkey for breeding of new dwarf rootstocks, Acta Hort. 1259. ISHS 2019. DOI 10.17660/ActaHortic.2019.1259.9 Proc. III Int. Symp. on Horticultural Crop Wild Relatives Eds.: S. Gandev and V. Bozhkova

### ▪ NATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in National Journals

1. Demirsoy, H., Macit, İ., 2007. Dwarfing Mechanism in Fruit Trees. OMÜ Ziraat Fakültesi Dergisi, 22(2): 214-218
2. Kaplan, N., Macit, İ., 2009. The Effect of Apple Clone Rootstocks on Vegetative Development and Productivity of Some Apple Varieties in Samsun Conditions. Tarım Bilimleri Araştırma Dergisi, 2(2): 159-166
3. Macit, İ. 2011. Fruit Growing in Samsun. SAMTİM dergisi, Gıda, Tarım ve Hayvancılık İl Müdürlüğü, Samsun.

#### ▪ National Papers, Seminars, etc.

1. Akbulut, M., Kaplan, N., Macit, İ., Özdemir, C., 2003. Determination of Blackberry Varieties Suitable for Samsun Çarşamba Plain Conditions. Ulusal Kivi ve Üzümsü Meyveler Sempozyumu, 357-360
2. Akbulut, M., Kaplan, N., Macit, İ., Koç, A., 2004. Black Sea Region Persimmon (*Diospyros kaki* L.) Selection II. I. Ünye Trabzon hurması Sempozyumu, 32-41
3. Macit, İ., Koç, A. Akbulut, M. 2006. Determination of Yield and Quality Characteristics of Some Strawberry Varieties in Samsun Coastal Conditions. II. Ulusal Üzümsü Meyveler Sempozyumu, 70-74
4. Akbulut, M., Koç, A, Macit, İ., 2007. The Effect of Different Packaging Materials on the Preservation Status of Fruits of Persimmon Types Selected in the Black Sea Region. V. Bahçe Bitkileri Kongresi, Erzurum
5. Akbulut, M., Ercişli, S., Macit, İ., Koç, A, Orhan, E., Ağar, G., Yıldırım, N., 2007. Molecular Characterization of Selected Blackberry (*Prunus laurocerasus* L.) Types in Turkey. V. Bahçe Bitkileri Kongresi



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6. Işık, D., Mennan, H., Altop, E. K., Macit, İ. 2011. Investigation of the Usability of Paddy Straws as Mulch for Control of Weeds in Orchards. Türkiye IV. Bitki Koruma Kongresi, Kahramanmaraş.
7. Kaplan, N., Özcan, M., Koç, A., Macit, İ. 2011. The Effect of Rootstocks on Vegetative Development of Amasya Apple Genotypes. VI. Bahçe Bitkileri Kongresi
8. Köse, D., Macit, İ., Demirsoy, L., Demirsoy, H., 2015. The importance of orchard management in dense planting cherry cultivation, Çanakkale VII. Bahçe Bitkileri Kongresi.
9. Rootstocks in Fruit Growing and Use of Plums as Rootstocks for Peach (Seminar)
10. Dwarfing Mechanism in Fruit Trees (Master's Seminar)
11. Current Training Systems in Apple and Cherry Cultivation (PhD Seminar)

### ▪ **OTHER PUBLICATIONS**

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

1. Blackberry (*Prunus laurocerasus* L.) Selection in the Black Sea Region II. Stage (Master Thesis - Ondokuz Mayıs University, Institute of Science and Technology, Department of Horticulture - 2008)
2. The Effect of Bud Management on Growth and Development in Cherries (PhD Thesis - Ondokuz Mayıs University, Institute of Science and Technology, Department of Horticulture - 2016)

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

1. ISHS - International Society for Horticultural Science (Member)
2. IHC 2018 - XXX. International Horticultural Congress İstanbul, August 12-17. 2018
3. XI Orchard Systems Symposium Bologna, August 28 – September 2, 2016
4. VI International Chestnut Symposium Sansun, October 9-13. 2017
5. 2nd International Agricultural Congress, Ankara, November 21-24. 2109
6. II. National Symposium on Berry Fruits Tokat, September 14-16. 2006

### **VARIETIES DEVELOPED**

CHESTNUT	Macit55 (2019)
AMASYA APPLE	Amasya elması (2007)
PERSIMMON	Yeşilirmak (2009), Ayder (2009), Kaplan (2009), Onur (2009), İrem (2009), Akbulut (2009), Türkay (2010), Çoruh 1 (2010)