



TAGEM
R&D AND INNOVATION

VITICULTURE RESEARCH INSTITUTE / MANISA

R. OGUZHAN SOLTEKIN, PhD Agricultural Engineer

EDUCATION

■ Assoc. prof	-
■ PhD 2013-2019	Ege University Faculty of Agriculture
■ MSc 2009-2011	Ege University Faculty of Agriculture
■ Bachelor's Degree 2005-2009	Ege University Faculty of Agriculture
LANGUAGE	English – YDS: 75

CAREER

- 2017 - : Head of Cultivation Techniques Department/Researcher, Viticulture Research Institute-Manisa.
- 2011-2017: Researcher in Cultivation Techniques Department, Viticulture Research Institute-Manisa.

ABOUT ME

He was born in 1986 in Köyceğiz/Muğla. He graduated from Ege University, Faculty of Agriculture, Department of Horticulture in 2009. In the same year, he started his master's program at the Mediterranean Agronomic Institute of Chania (MAICh) in Crete, and his studies continued at Ege University, Faculty of Agriculture, Department of Horticulture in 2010. After his MSc studies, he started to work in Viticulture Research Institute-Manisa in 2011. He completed his doctorate in Ege University, Agriculture of Faculty, Department of Horticulture in 2019 and still works as Head of Cultivation Techniques Department and researcher at Viticulture Research Institute-Manisa.

CONTACT

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▪ PROJECTS

▪ **Projects Conducted**

1. “Effects of Water Deficit Treatments on Vine Growth, Yield and Grape Quality of Some Table Grape Varieties”. (TAGEM/BBAD/14/A08/P04/02), TAGEM Project (*PhD Project*), **Project Leader (2019)**.
2. “Investigation of Environmentally Friendly New Techniques (Organic & Good Agricultural Practices) for Table Grape Growing”. (2015-1-TR01-KA104-018668), EU Project (Erasmus+KA1), **Project Leader (2016)**.
3. “Efficiency of Subsurface Drip Irrigation Systems in Vineyards”. TAGEM Project, **Researcher (2021)**.
4. “The effect of canopy microclimate regulation by using different covering techniques on bunch tip drying and berry shrivel in seedless raisin grape variety (*Vitis vinifera* L. cv. Sultan 7)”. TAGEM Project, **Researcher (2021)**.
5. “Determination, Establishment of a Database and Mapping of Plant Nutrient and Potential Toxic Element Contents of Agricultural Soils in Balıkesir and Çanakkale Provinces”. TAGEM Project, **Researcher (2021)**.
6. “Detection and Definition of Hot Weather Damage in Grapes”. (Ministry of Agriculture and Forestry – General Directorate of Agricultural Reform) TARSİM, **Researcher (2021)**.
7. “Determination of Drying Characteristics of Some Seedless Grape Varieties”. TAGEM Project, **Researcher (2020)**.
8. “Effects of Crop Load and Leaf Removal on Physiological - Anatomical Effects and Relations with Bunch Tip Berry Shrivell”. TAGEM Project, **Researcher (2019)**.
9. “Extension Project of New Grape Varieties (Salihli / Manisa - Buharkent / Aydın)”. Ministry of Agriculture and Forestry, Department of Training and Publication, **Researcher (2019)**.
10. “Determination of Research-Extension - Farmer Relations in Turkey Viticulture”. TAGEM Project, **Researcher (2018)**.
11. “Enhancement of Resistance Against to the Water Stress via PGPR”. TAGEM Project, **Researcher (2016)**.
12. “Characterization of Crown Gall Disease (*Agrobacterium vitis*) in the Aegean Region of Turkey and Investigations on Sensitivity of Some Important Grapevine Cultivars and Rootstocks”. TAGEM Project, **Researcher (2015)**.



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▪ **Ongoing Projects**

1. “Effects of Different Trellis Systems and Partial Rootzone Drying (PRD) technique on Physiological Activities, Yield and Quality of Beyra, Efem, Spil Karası Table Grape Varieties”. (TAGEM/BBAD/B/19/A1/P6/1001), TAGEM Project, **Project Leader**.
2. “Effects of Different Cultivation Models on Table Grape Cultivation in Soilless Agriculture”. TAGEM Projesi, TAGEM Project, **Researcher**.
3. “Determining the Effects of Climatic Factors on Fruit Yield and Quality in Viticulture: Manisa Region”. TAGEM Project, **Researcher**.
4. “The Effect of Different Irrigation Levels on Yield and Quality in 'Bornova Misketi' and 'Foça Karası' Grape Varieties Irrigated with Subsurface Drip Irrigation Method”. TAGEM Project, **Researcher**.
5. “Effects of Cover Crop, Compost, Microbial and Mineral Fertilizer Applications on Vine Growth, Yield, Grape Quality and Soil Properties”. TAGEM Project, **Researcher**.
6. “Determination of Adaptation for Newly Developed Table Grape Varieties in Different Ecologies”. TAGEM Project, **Researcher**.



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▪ PUBLICATIONS

▪ INTERNATIONAL ARTICLES AND PAPERS

▪ Articles Published in International Journals

1. **Soltekin, O.** and Altındisli, A. 2022. Effects of vine water status on vine performance and grape composition of (*Vitis vinifera* L.) cv. 'Sultani Çekirdeksiz'. Acta Scientiarum Polonorum Hortorum Cultus, 21(1), 89-102. DOI: 10.24326/asphc.2022.1.8
2. **Soltekin, O.** and Altındişli, A. 2021. "Influence of Deficit Irrigation on (*V. vinifera* L.) cv. Fantasy Seedless Under Mediterranean Climate: Physiological Responses, Growth, Yield and Quality. Erwerbs-Obstbau, 63(1), 101-113. DOI: 10.1007/s10341-021-00587-1
3. Akgül, D.S., Ozyılmaz, U., Onder, S., Celik, S., **Soltekin, R.O.** and Benlioglu, K., 2018. "Susceptibility of Grapevine Cultivars and Rootstocks to Crown Gall Disease (*Rhizobium vitis*) in the Aegean Region of Turkey". Fresenius Environmental Bulletin, 27(9), p. 6229-6238.
4. **Soltekin, O.**, Teker, T. and Altındişli, A. 2020. "Deficit Irrigation Strategies in *Vitis vinifera* L. 'Crimson Seedless' Table Grape: Physiological Responses, Growth, Yield and Fruit Quality". Acta Hortic. 1276, 197-204, DOI: 10.17660/ActaHortic.2020.1276.28.
5. Teker, T., **Soltekin, O.** and Altındişli, A. 2020. "Effects of Extreme Bud Load and Leaf Removal Treatments on Leaf Water Potential, Stomatal Conductance and Ripening of 'Sultana' (*Vitis vinifera* L.)." Acta Hortic. 1276, 205-212; DOI: 10.17660/ActaHortic.2020.1276.29
6. **Soltekin, O.**, Güler, A., Candemir, A., Altındişli, A. and Unal, A., 2019. "Response of (*Vitis vinifera* L.) cv. Fantasy Seedless to water deficit treatments: Phenolic compounds and physiological activities". In BIO Web of Conferences (Vol. 15, p. 01001). EDP Sciences. DOI: 10.1051/bioconf/20191501001
7. **Soltekin, O.** and Altındisli, A., 2017. "Effects of hot water treatments on dormant grapevine propagation materials used for grafted vine production". In BIO Web of Conferences (Vol. 9, p. 01003). EDP Sciences. DOI: 10.1051/bioconf/20170901003
8. **Soltekin, O.**, Candemir, A. and Altındisli, A., 2016. "Effects of cane girdling on yield, fruit quality and maturation of (*Vitis vinifera* L.) cv. Flame Seedless". In BIO Web of Conferences (Vol. 7, p. 01032). EDP Sciences. DOI: 10.1051/bioconf/20160701032
9. **Soltekin, O.**, Teker, T., Erdem, A., Kacar, E., Altındişli, A., 2015. "Response of "Red Globe" (*Vitis vinifera* L.) to cane girdling". In: BIO Web of Conferences. EDP Sciences, 2015. p. 01019. DOI: 10.1051/bioconf/20150501019



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▪ International Papers, Seminars, etc.

1. **Soltekin, O.**, Güler, A., Candemir, A., Altındışli, A. and Unal, A., 2019. "Response of (*Vitis vinifera* L.) cv. Fantasy Seedless to water deficit treatments: Phenolic compounds and physiological activities" - 42nd World Congress of Vine and Wine. 15-19 July 2019, Geneva, Switzerland.
2. **Soltekin, O.**, Teker, T., Altındışli, A., 2018. "Deficit Irrigation Strategies in (*Vitis vinifera* L.) cv. Crimson Seedless Table Grapes: Physiological Responses, Growth, Yield and Fruit Quality" IHC 2018 - Istanbul, Turkey.
3. **Soltekin, O.**, Teker, T., Altındışli, A., 2018. "Effects of water deficit treatments on coloration and fruit quality of (*Vitis vinifera* L.) cv. Fantasy Seedless" - International Agriculture Science Congress 2018 – Van, Turkey.
4. **Soltekin, O.**, Altındışli, A., 2018. "Effects of water stress on coloration and anthocyanin content of Crimson Seedless table grape variety" - 29th International Scientific-Expert Conference of Agriculture and Food Industry – İzmir, Turkey.
5. Teker, T., **Soltekin, O.**, Altındışli, A., 2018. "Effects of Extreme Bud Load and Leaf Removal Treatments on Leaf Water Potential, Stomatal Conductance and Ripening of cv. Sultana (*Vitis vinifera* L.)" IHC 2018 - Istanbul, Turkey.
6. Teker, T., **Soltekin, O.**, Altındışli, A., 2018. "Different Bud Load And Leaf Removal Treatments Affects Bud Burst Rate, Leaf Water Potential And Stomatal Conductance Relations of cv. Sultan 7 (*Vitis vinifera* L.) Grapevines." International Agriculture Science Congress 2018 – Van, Turkey.
7. **Soltekin, O.**, Candemir, A. and Altındışli, A., 2016. Effects of cane girdling on yield, fruit quality and maturation of (*Vitis vinifera* L.) cv. Flame Seedless. 39th World Congress of Vine and Wine. 24-28 October 2016, Bento Gonçalves, Brazil.
8. **Soltekin, O.**, Teker, T., Erdem, A., Kaçar, E. And Altındışli, A., 2015. "Response of "Red Globe" (*Vitis vinifera* L.) to cane girdling". 38th World Congress of Vine and Wine. 5th to 10 th 2015, Mainz, Germany.
9. Merken, O., **Soltekin, O.**, Karabat, S., Ünal, A., 2019. "Determination of Different Silicon Fertilizer Doses on Yield, Quality and Nutritional Status of Soil and Leaf Analysis Values of Sultani Çekirdeksiz (*Vitis Vinifera* L.) Variety". 2nd International Congress of Agriculture, Environment and Health, 18-19 October 2019, Aydın, Turkey.
10. Merken Ö., Teker T., Ünal A., **Soltekin O.**, Kuştutan F., Albaz E., Karabat S., 2019. "Determination of Plant Nutrient Element Contents of Çanakkale Province Soils" 6th International Soil and Water Resources Congress, 12-14 November 2019, Izmir, Turkey.
11. **Soltekin, R.O.**, Guler, A. 2018. A Review: Occurrence and Control of Ochratoxin-A in Sultana Raisins. - 29th International Scientific-Expert Conference of Agriculture and Food Industry – İzmir, Turkey



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▪ **International Papers, Seminars, etc.**

12. **Soltekin, O.**, Karabat, S., Ünal, A., 2018. A Review: Subsurface Drip Irrigation Systems in Vineyards. 1st International Agricultural Science Congress. p424, 09-12 May 2018, Van, Turkey
13. Candemir, A., Guler, A., Ozaltın, K.E., Asıklar, F.B., **Soltekin, O.** 2018. Effect of dipping pretreatment on local raisins. I. International Agricultural Science Congress, 09-12 May 2018, Van/Turkey.
14. **Soltekin, O.**, Savas Y., Baybas B. and Kacar E., 2017. Hot-water treatments of dormant grapevine propagation materials: Its effects on final take and grafted vine quality. 2nd International Balkan Agriculture Congress. 16-18 May 2017. Book of Abstracts. p319. Tekirdag, Turkey.
15. **Soltekin, O.** and Unal A., 2017. A Review: Effects of water stress on grapevine growth stages. 2nd International Balkan Agriculture Congress. 16-18 May 2017. Book of Abstracts. p318. Tekirdag, Turkey.
16. **Soltekin, O.**, Teker, T., Kacar, E., Erdem, A., 2014. Determination of Grafted Success for Some New Registered Grape Varieties. 25th International Scientific - Experts Congress on Agriculture and Food Industry. 25-27 September 2014, Cesme-Izmir/TURKEY.
17. **Soltekin, O.**, Baybaş, B., Savaş, Y., 2014. Determination of Graft Success Between Chip-Budding and Omega Bench Grafting Techniques. Balkan Agriculture Congress, 08-11 September 2014, Edirne, Turkey.
18. Teker, T., **Soltekin, O.**, 2014. Determination of Graft Success for Some Wine Grapes Grafted Onto 1103P. Balkan Agriculture Congress, 08-11 September 2014, Edirne, Turkey.
19. Candemir, A., Güler, A., **Soltekin, O.**, 2013, Üzüm Ürünlerinin Biyokimyasal Özelliklerinin Belirlenmesi, 8. Bağcılık ve Teknolojileri Sempozyumu, 25-28 Eylül 2013 Konya.
20. Ünal, A., Sezgin, F., **Soltekin, O.** 2012. Different Amounts of Irrigation Water Effects on The Aspects of Yield And Quality In The Type of Sultani Seedless Grapes. 35th Word Congress of Vine And Wine 18-22 June 2012, İzmir, Turkey
21. **Soltekin, O.**, Tüzel, Y., Öztekin, G.B. and Tüzel, I.H., 2012. Response of Pepino (*Solanum muricatum* Ait.) to Salinity. ISHS Acta Horticulture 960: V Balkan Symposium on Vegetables and Potatoes. DOI: 10.17660/ActaHortic.2012.960.60



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▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. **Soltekin, O.**, Altındışli, A. ve İşçi, B., 2021. Effects of climate change on viticulture in Turkey. Journal of Agriculture Faculty of Ege University, 58(3):457-467.
2. Ünal, A., **Soltekin, O.**, 2018. Raisins: World's Production and Trade. Bahçe 47 (Özel Sayı 1: Türkiye 9. Bağcılık ve Teknolojileri Sempozyumu): 1-9p. ISSN 1300-8943
3. **Soltekin, O.**, Savaş, Y., Özcan, E. T., ve Kacar, E., 2017. Effects of Thermoherapy Treatment on Final Take and Grafted Vine Quality in Potted Grafted Vine Production. Turkish Journal of Agricultural and Natural Sciences, 4(1): 30-39.
4. **Soltekin, O.**, Erdem, A., Unal, A., Kacar, E., Teker, T., Savaş, Y., 2015. "A Research on the Grafting Success of Some New Registered Grape Varieties Which were Grafted on 41 B and 1103 P Rootstocks." Selçuk Tarım ve Gıda Bilimleri Dergisi, A27, s.170-176 (Türkiye 8. Bağcılık ve Teknolojileri Sempozyumu Özel Sayısı) ISSN:1309-0550
5. Teker, T., **Soltekin, O.**, Erdem, A., 2015. "Determination of callus development level, sprouting, rooting and grafted cutting values of scions of "Bornova Misketi, Merlot and Narince" Vine Cultivars grafted on 1103P rootstock." Selçuk Tarım ve Gıda Bilimleri Dergisi, A27, s.688-694 (Türkiye 8. Bağcılık ve Teknolojileri Sempozyumu Özel Sayısı) ISSN:1309-0550
6. Candemir, A., Güler, A., **Soltekin, O.**, 2015. Determination of Biochemical Characteristics of Grape Products. Selçuk Tarım ve Gıda Bilimleri Dergisi-A27, s.399-402. (Türkiye 8. Bağcılık ve Teknolojileri Sempozyumu Özel Sayısı) ISSN: 1309-0550.
7. İşçi, B., Altındışli, A., Kacar, E., Dilli, Y., **Soltekin, O.**, Onder, S., Ünal, A., Savaş, Y., 2015. A study on grafted take ratio of Red Globe variety grafted onto different rootstocks. Selçuk Tarım ve Gıda Bilimleri Dergisi, A27, s.17-26 (Türkiye 8. Bağcılık ve Teknolojileri Sempozyumu Özel Sayısı) ISSN:1309-0550



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▪ National Papers, Seminars, etc.

1. **Soltekin, O.**, 2020. "Bağ Yetiştiriciliğinde Görülen Genel Sorunlar ve Bazı Yeni Tescillenen Üzüm Çeşitleri". Üretimden İhracata Üzüm Paneli (Panelist). Salihli, Manisa.
2. **Soltekin O.**, Teker, T., Altındışli, A., 2017. "Fantasy Seedless Üzüm Çeşidinde Su Stresinin Verim, Tane Bileşimi ve Fizyolojik Faaliyetler Üzerine Etkileri" 9. Bağcılık ve Teknolojileri Sempozyumu - Ankara, Türkiye.
3. **Soltekin, O.**, 2017. "Genel Bağ Yetiştiriciliği". Bağcılık Sektöründe Gelişmeler ve Fırsatlar Paneli ve Hasat Günü Etkinlikleri, Panelist. 23-24 Ağustos 2017, Pazarcık, Kahramanmaraş.
4. Soltekin, O., Altındışli, A., 2017. "Su Stresinin Asmaların Gelişimi ve Üzüm Kalite Değerleri Üzerine Etkileri". 9. Bağcılık ve Teknolojileri Sempozyumu – Ankara, Türkiye.
5. Teker, T. , **Soltekin O.**, Altındışli, A., 2017. "Sultan 7 Üzüm Çeşidinde Ürün Yükü ve Yaprak Alma Uygulamalarının Asma Fizyolojisi, Verim ve Tane Özelliklerine Etkileri" 9. Bağcılık ve Teknolojileri Sempozyumu - Ankara, Türkiye.
6. Karabat, S., Teker, T., **Soltekin, O.**, 2017 "Çardak Siteminde Yetiştirilen Samancı Çekirdeksizi Üzüm Çeşidinde Bitki Gelişim Düzenleyici Uygulamalarının Verim ve Kalite Üzerine Etkileri" 9. Bağcılık ve Teknolojileri Sempozyumu - Ankara, Türkiye.



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▪ **OTHER PUBLICATIONS**

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

1. Soltekin, O., 2019. "Effects of Water Stress on Vine Growth, Yield and Grape Quality of Some Table Grape Varieties". PhD Thesis, Ege University, Graduate School of Natural and Applied Science, Department of Horticulture, 225s.
2. Soltekin, O., 2011. "Effects of Salinity Stress on Yield and Quality of Pepino (*Solanum Muricatum*) Grown in Soilless Closed System". MSc Thesis, Ege University, Graduate School of Natural and Applied Science, Department of Horticulture, 67s.
3. Karabat, S., Teker, T., Soltekin, O., 2019. "Samancı Çekirdeksiz Üzüm Çeşidinde Bitki Gelişim Düzenleyici Uygulamalarının Verim ve Kalite Üzerine Etkileri" – Apelasyon Dergisi. Haziran 2019 / Sayı: 67. ISSN: 2149-4908.
4. Soltekin, O., 2016. Mikoriza Mantarları ve Tarımsal Açından Önemi. Apelasyon dergisi. Nisan 2016 / Sayı: 29. ISSN: 2149-4908.
5. Soltekin, O., 2015. Çekirdeksiz Üzümde Kurutma İşlemi. Apelasyon dergisi. Nisan 2016 / Sayı: 29. ISSN: 2149-4908.
6. Soltekin, O., 2015. Bağlarda Toprak Altı Damla Sulama Sistemi. Apelasyon dergisi. Ağustos 2015 / Sayı:21. ISSN: 2149-4908.
7. Soltekin, O., 2015. Asmalarda Bilezik Alma. Apelasyon dergisi. Mayıs 2015 / Sayı:18. ISSN: 2149-4908.
8. Soltekin, O., Erdem A., 2014. Küresel Isınma, İklim Değişikliği ve Bağcılık. Türktarım Dergisi, Sayı:219, Sf:72, Eylül-Ekim 2014. ISSN:1303-2364.
9. Soltekin, O., 2014. İklim Değişikliği. Apelasyon Dergisi. Eylül 2014 / Sayı:10. ISSN: 2149-4908.
10. Soltekin, O., İnan, M.S., 2014. Bağların Kışa Hazırlığı ve Kış Budaması. Manisa Ticaret Borsası Dergisi, s48, Yıl:1, Sayı:3, 2014.
11. Soltekin, O., Erdem, A., 2013. Örtüaltında Bağcılık. İl Gıda Tarım ve Hayvancılık Müdürlüğü Dergisi, Manisa. Yıl:3, Sayı:6, Ocak-Şubat-Mart 2013.
12. Soltekin, O., Öztekin, G.B., Deveci, G., 2011. Yeni Bir Sağlık İksiri: Pepino (*Solanum muricatum* Aiton). Dünya Gıda Dergisi, 2011.



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

1. National Trainings: “Vineyard Establishment”, “Prunings of Grapevine”, “Trellis Systems and Canopy Management”, “Yield Estimation Studies”, “Effects of Climate Change on Viticultural Activities”, “General Viticultural Techniques”. Trainings for growers and technical staff.
2. International Trainings: “General Viticulture”, “Trellis Systems and Canopy Management”, “Raisin Production and Trade”, “Grape Varieties and Determination of the Harvest Maturity”, “Grape Drying Process”. İsrail-Filistin (2019).
3. Participated Courses: “Investigation of Environmentally Friendly New Techniques (Organic & Good Agricultural Practices) for Table Grape Growin”. Palermo, Sicily, Italy. (12-13 July 2016).
4. Participated Courses: “ARIMNet2 Young Researchers Seminar”. Institut Agronomique Méditerranéen de Montpellier, Montpellier, France. (29 May-03 June 2016).
5. Participated Courses: MSc Programme (Full scholarship student of CIHEAM) – “Food Quality and Chemistry of Natural Products”, Mediterranean Agronomic Institute of Chania, Greece (2010).
6. Participated Courses: Internship training (Full scholarship student). “Almond cultivation (Irrigation, Fertilization, Mechanical Harvesting)”, Israel (2008).
7. Professional Membership: “Turkish Society for Horticultural Science”, “UCTEA (UNION of the Chambers of Turkish Engineers and Architects) – Chamber of Agricultural Engineers”, “International Society for Horticultural Science (ISHS)”, “International Organisation of Vine and Wine (OIV)”.