



TAGEM
R&D AND INNOVATION

MAIZE RESEARCH INSTITUTE / SAKARYA

LÜTFÜ DEMİR, MSc Agricultural Engineer

EDUCATION

- **Assoc. prof**
- **PhD**
- **MSc** 1994-1996 Kahramanmaraş Sütçü İmam University
Institute of Natural and Applied Science
- **Bachelor's Degree** 1989-1993 Çukurova Üniversitesi
Faculty of Agriculture
- **LANGUAGE** English YÖKDİL 42,5 / YDS 40

CAREER

- 1994-1996, Assistant, Kahramanmaraş Sütçü İmam University,
Faculty of Agriculture - KAHRAMANMARAŞ
- 1996-1997, Agricultural Engineer, Food Technology Research
Institute - BURSA
- 1997-Continues, Agricultural Engineer, Maize Research Institute
Directorate - SAKARYA

ABOUT ME

He was born in 1968 in Gaziantep. He graduated from Çukurova University, Faculty of Agriculture in 1993.

He attended the "Basic Wheat Breeding" course in Mexico-CIMMYT for 3 months in 2013. In 2018, he received the training "Evaluation of germplasm and standardization in black rust reading, with emphasis on the visible threats of yellow and brown rust" in Njoro, Kenya.

He continues to work on "South Marmara Region Bread Wheat Breeding Research", "National Wheat Breeding and (IWWIP) International Winter Wheat Improvement" projects.

CONTACT

■ Hanlı Köy Mahallesi Arifiye Cad.
No:20 Arifiye/SAKARYA 54100
TÜRKİYE

■ lutfu.demir@tarimorman.gov.tr

■ 0264 275 25 91



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▪ **PROJECTS**

▪ **Projects Conducted**

1. TAGEM/IY/96/01/04/027. Bread Wheat Breeding Researchs In South Marmara Region (1999-2003)- Researcher
2. TAGEM/TA/03/03/01/024. Bread Wheat Breeding Researchs In South Marmara Region (2004-2008)- Researcher
3. TAGEM/TA/09/07/01/003. Bread Wheat Breeding Researchs In South Marmara Region (2009-2013)- Researcher
4. TAGEM /TBAD/14/A12/P01/001. Bread Wheat Breeding Researchs In South Marmara Region (2014-2018) Proje Lideri
5. TÜBİTAK (TOVAG 112 O 135). Determination of phenotypic variation and genotype x environment interaction in a recently developed mapping population of bread wheat for agronomic, quality and disease-resistance traits- Researcher
6. Exploitation of Spelt Wheat and Wild Emmer in İmproving Grain Zinc and Iron Concentrations of Modern Wheat and Evaluation of the Zinc Fertilizer Trails Conducted in Target Countries HARVEST PLUS – Researcher
7. TAGEM/ National Cool Climate Cereals Spring Bread Wheat Breeding Researchs (1999-2018)
8. TAGEM/ National Cool Climate Cereals Spring Bread Wheat Quality Researchs (1999-2018)
9. TAGEM/ National Cool Climate Cereals Winter Bread Wheat Breeding Researchs (1999-2018)
10. TAGEM/ National Cool Climate Cereals Disease Researchs Project (2004-2018)
11. TAGEM/ International Winter Wheat Improvement Project (IWWIP) 1999-2021
12. CIMMYT International Spring Wheat Improvement Project 1999-2021

▪ **Ongoing Projects**

1. TAGEM/TBAD/B/19/A7/P1/2270. Bread Wheat Breeding Researchs In South Marmara Region (2019-2023) – Project leader
2. TAGEM/ National Cool Climate Cereals Winter Bread Wheat Breeding Researchs 2019-2022
3. TCI/ International Winter Wheat Improvement Project (IWWIP) 1999-2021
4. CIMMYT/ International Spring Wheat Improvement Project (199-2021)



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■ **PUBLICATIONS**

■ **INTERNATIONAL ARTICLES AND PAPERS**

■ **Articles Published in International Journals**

1. Kolmer J. A., Mert Z., Akan K., Demir L., Ünsal R., Şermet C., Keser M., Akin B. And Morgounov A., 2012. Virulence of *Puccinia triticina* in Turkey and leaf rust resistance in Turkish wheat cultivars, *Eur J Plant Pathol*, DOI 10.1007/s10658-012-0107-1
2. Kolmer, J. A., Mert, Z., Akan, K., Demir, L., Ünsal, R., Şermet, C., Keser, M., Akin, B., and Morgounov, A., 2013. Virulence of *Puccinia triticina* in Turkey and leaf rust resistance in Turkish wheat cultivars. *European Journal of Plant Pathology*, 135(4), 703-716. DOI: 10.1007/s10658-012-0107-1
3. Alex Morgounov., A.I., Akin, B., Demir, L., Keser, M., Kokhmetova, A., Martynov, S., Orhan, Ş., Özdemir, F., Özseven, İ., Sapakhova, Z. and Yessimbekova, M., 2015. Yield gain due to fungicide application in varieties of winter wheat (*Triticum aestivum*) resistant and susceptible to leaf rust *Crop & Pasture Science*. <http://dx.doi.org/10.1071/CP14158>, 5 June 2015
4. Velu G., Tutus Y.; Gomez-Becerra H.F., Hao Y., Demir L., Kara R., Crespo-Herrera L.A., Orhan S., Yazici A., Singh R.P., Cakmak I., 2016. QTL Mapping For Grain Zinc and Iron Concentrations and Zinc Efficiency in a Tetraploid and Hexaploid Wheat Mapping Populations. *Plant Soil* DOI 10.1007/s11104-016-3025-8, Volume: 406, Nos 1-2 September 2016
5. Nehe, A., Akin, B., Sanal, T., Kaplan Evlice, A., Ünsal, R., Dinçer, N., Demir, L., Geren, H., Sevim, İ., Orhan, Ş., Yaktubay, Ş., Ezici, A.A., Guzman, C., and Morgounov, A., 2019. Genotype x environment interaction and genetic gain for grain yield and grain quality traits in Turkish spring wheat released between 1964 and 2010. *PLOS ONE* | <https://doi.org/10.1371/journal.pone.0219432> July 18, 2019
6. Sabanci, K., Aydin, N., Sayaslan, A., Sonmez, M.E., Aslan, M.F., Demir, L. And Sermet, C., 2020. Wheat Flour Milling Yield Estimation Based on Wheat Kernel Physical Properties Using Artificial Neural Networks. *IJISAE*, vol. 8, no. 2, pp. 78-83, Jun. 2020.
7. Akin, B., Sohail, Q., Ünsal, R., Dinçer, N., Demir, L., Geren, H., Sevim, İ., Orhan, Ş. Yaktubay, Ş., Alex Morgounov., A.I., 2017. Genetic gains in grain yield in spring wheat in Turkey. *Turkish Journal of Agriculture and Forestry*, (2017) 41: 103-112 TÜBİTAK doi:10.3906/tar-1611-50



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▪ International Papers, Seminars, etc.

1. Düşünceli, F., Akan, K., Mert, Z, Çetin, L., Yazar, S., Akar, T., Bolat, N., Ünsal, R., Ercan, B., Özseven, İ., Demir, L., Dinçer, N., Kılıç, H., Bayramoglu, H.O., Öztürk, İ., Tülek, A., Küçüközdemir, Ü., İlkhan A., Hekimhan, H., Yıldırım, A.F., 2009. An Overview of The Network for Important Cereal Diseases Management Research in Turkey Between 2003 and 2007. 12th International Cereal Rusts and Powdery Mildews Conf. October 13 -16, 2009 Antalya-Turkey
2. Mert, Z., Cetin, L., Akan, K., Özseven, İ., Demir, L., Tülek, A., Öztürk, İ., Ay, H., Kılıç, H., Bayramoglu, H.O., Yorgancılar, A., Ünsal, R., Ercan, B., Güven, D., İlkhan, A., 2009. Occurrence of Wheat Rusts in Turkey During the 2009 Growing Season. BGRI (Borlaug Global Rust Initiative) Technical Workshop, May 30-31 St. Petersburg, Russia.
3. Mert, Z., Cetin, L., Akan, K., Ozseven, İ., Demir, L., Tülek, A., Oztürk, İ., Ay, H., Kılıç, H., Bayramoglu, H.O., Yorgancılar, A., Ünsal, R., Ercan, B., Güven, D., İlkhan A., 2010. Occurrence Of Wheat Rusts In Turkey During The 2009 Growing Season. BGRI (Borlaug Global Rust Initiative) 2010 Technical Workshop, 30-31 May 2010 Abstract book page: 16
4. Geren H., Ünsal R., Sevim İ., Demir L., Özseven İ., Dincer N., Yaktubay Ş., Morgounov A., Akın B., 2010. Improvement of Yield and Yield Components of Spring Bread Wheat Varieties Registered in Turkey, 8th International Wheat Conference, 1-4 June, St. Petersburg, Russia
5. Avşar, B., Aydın, N., Bayramoğlu, H.O., Şermet, C., Mert, Z., Orhan, Ş., Demir, L., Budak, H., 2013. Polymorphism Study In Rİls Created By Tosunbey X Tahirova 2000 Cross. International Plant Breeding Congress, Field Crops, Page 348, 10-14 November 2013, Antalya, Turkey.
6. Demir, L., Orhan, Ş., Özseven, İ., Canıgeniş, G., Morgounov, A. And Akın, B., 2014. The Effect of Leaf Rust on Grain Yield and on Yield Traits in Spring Bread Wheat Varieties. International Mesopotamia Agriculture Congress, 22-25 September 2014 Diyarbakır – Turkey
7. Sevim, İ., Geren, H., Ünsal, R., Demir, L., Orhan, Ş., Yaktubay, Ş., Ezici, A.A., Morgounov, A., Akın, B., 2014. Genetic Gains For Grain Yield And Yellow Rust In Historical Set Of Spring Wheat Varieties Developed In 1965-2010 2nd International Wheat Stripe Rust Symposium, 28 April-01 May-2014-İzmir, Turkey.



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10. Mert Z., Akan K., Karagöz E., Keskin N., Akci N., Hekimhan H., Ünsal R., Urin V., Demir L., Şermet C., Tülek A., Ay H., İlkhan A., Bilgili A., Karaman M., Yorgancılar A., Kara R., Cengiz H., Ercan B. 2016. Monitoring of Wheat Rusts and an Overview of Resistance Status of Cultivars to Rust in Turkey. Turkey 6th Plant Protection Congress with International Participation, 5-8 September 2016, Konya, Turkey.
11. Mert Z., Akan K., Akci N., Hekimhan H., Ünsal R., Urin V., Demir L., Şermet C., Tülek A., Ay H., İlkhan A., Bilgili A., Karaman M., Yorgancılar A., Kara R., Cengiz H., Ercan B. 2016. Determination of *P. graminis* f.sp tritici Races in Wheat Between 2011 to 2015 Years. Turkey 6th Plant Protection Congress with International Participation, 5-8 September 2016, Konya, Turkey.
12. Demir, L., Orhan, Ş., Özseven, İ., Canigeniş G., 2017. Determination of Grain Yield and Some Traits of Some Winter and Facultative Bread Wheat (*Triticum aestivum* L.) Genotypes in East Marmara Ecological Conditions. 2nd International Balkan Agriculture Congress May 16-18, 2017, Abstract book page: 151, Tekirdağ/TURKEY
13. Cengiz B., Karabulut Z., **Demir L.**, Orhan Ş., Canigeniş G., Özseven, İ., 2017. Determination of Quality Characteristics of Some Bread Wheat Lines and Varieties Grown in East and South Marmara Ecological Conditions. 2nd International Balkan Agriculture Congress 16-18 May. 2017, Tekirdağ/Turkey.
14. Urin, V., Helvacioğlu, Ö., Akci, N., Ağı, Y. And **Demir, L.**, 2019. Monitoring Some Resistance Genes Against Leaf Rust Disease (*Puccinia recondita* F. SP.tritici) In Natural Epidemic conditions In Sakarya Province. 1. International Molecular Plant Protection Congress 10-13 April. Adana.

▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. Demir, L., Orhan, Ş., Özseven, İ., Canigeniş G., 2017. Determination of the Reactions of Some Bread Wheat (*Triticum aestivum* L.) Varieties Against Yellow and Leaf Rust Diseases Under the Natural Epidemic in Sakarya Ecological Conditions. Journal of Field Crops Central Research Institute, 26: 131-137.
2. Bayram, M.E. ve Demir, L., 2009. Yield Stability of Some Bread Wheat (*Triticum aestivum* L.) Cultivars Grown in Marmara Ecology. Journal of Agricultural Faculty of Uludag University, 23 (1): 1, 1-12

▪ National Papers, Seminars, etc.

1. Demir, L., Tuncer, İ.K., Kirişci, V., Elmas, C., 1995. Agricultural Machinery Manufacturers and Their Problems in Kahramanmaraş. 16th National Congress of Agricultural Mechanization, 5-7 September 1995, 25-34, Bursa.



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2. Elmas, C., Tuncer, İ.K., Kirişçi, V., Demir, L., 1995. Agricultural Mechanization Level and Problems of Kahramanmaraş. 16th National Congress of Agricultural Mechanization, 5-7 September 1995, 35-44, Bursa.
3. Yıldız, E., Demir, L., Elmas, C., 1995. A Study on the Comparison of Mechanical and Hydrostatic Speed Boxes in Agricultural Tractors. 16th National Congress of Agricultural Mechanization, 5-7 September 1995, 198-203, Bursa.
4. Mert, Z., Akan, K., Çetin, L., Düşünceli, F., Yorgancılar, A., Ünsal, R., Ercan, B., Özseven, İ., Demir, L., Dinçer, N., Kılıç, H., Bayramoğlu, H.O., Tülek, A., Gülen, D., İlhan, A., 2009. Integrated Resistance Breeding Studies in 2008 Against Some Important Diseases of Wheat and Barley in Our Country. Turkey 8th Field Crops Congress, 19-22 October 2009, Hatay.
5. Akan, K., Mert, Z., Cetin L., Kılıç, A. T., Geren, H., Topal, İ., Demir, L., Ay H., Tekdal, S., Şermet, C., Tulek, A., Küçüközdemir, Ü., Comert, İ. H. ve Kara, R., 2011. Integrated Resistance Breeding Studies Against Some Important Diseases of Wheat and Barley, GAP 6th Agriculture Congress, 78-81, Şanlıurfa
6. Bayram M.E., Demir L., Orhan Ş., 2013. Yield Stability of Some Red Grain Bread Wheat (*Triticum aestivum* L.) Genotypes. Turkey 10th Field Crops Congress, 10-13 September, Konya.
7. Sayaslan, A., Aydın, N., Demir, B., Çıbık, C., Bayramoğlu, H.O., Şermet, C., Savaşlı, E., Önder, O., Özcan, H., Orhan, Ş., Demir, L., 2015. Effect of High and Low Molecular Weight Glutenin Subunits and Rye Translocation on Agronomic and Quality Traits in Hard White Wheat. Turkey 11th Field Crops Congress, 7-10 September 2015, Çanakkale
8. Mert, Z., Aydın, N., Şermet, C., Orhan, Ş., Demir, L., Özcan, H., 2015. Determination of Resistance to Powdery Mildew and Rusts in a Recombinant Inbred Line Population of Bread Wheat. Turkey 11th Field Crops Congress, 7-10 September 2015, Çanakkale
9. Demir, L., Yavuz, R., 2016. Wheat Farming from Planting to Harvest in the Summer Zone. Harman Time, 43: 78-84.
10. Yavuz, R., Demir, L., Orhan, Ş., 2017. Effects of Yellow and Brown Rust Diseases on Wheat Production in the Marmara Region. Agrotime International Journal of Crop Production and Animal, 29: 30-31.



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▪ **OTHER PUBLICATIONS**

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

1. **Master Thesis**

Demir, L., 1996. A Study on the Sun Drying of Kahramanmaraş Red Pepper by Spreading on Different Materials. Kahramanmaraş Sütçü İmam University, Institute of Natural and Applied Sciences, Department of Field Crops, Master Thesis, Department of Agricultural Machinery, Kahramanmaraş.

2. **Project Result Report**

Bayram, M.E., Özseven, İ., **Demir, L.**, 2004. Bread Wheat Breeding Researchs In South Marmara Region. General Directorate of Agricultural Research and Policies, TAGEM/IY/96/01/04/027 no'lu Project Final Report (1999-2003).

3. **Project Result Report**

Bayram, M.E., Özseven, İ., **Demir, L.**, 2004. Bread Wheat Breeding Researchs In South Marmara Region. General Directorate of Agricultural Research and Policies, TAGEM/TA/03/03/01/024 no'lu Project Final Report (2004-2008)

4. **Proje Sonuç Raporu**

Bayram, M.E., **Demir, L.**, Özseven, İ., Orhan, Ş., Canıgeniş, G., Cengiz, B., Nogay, Y., 2014. Bread Wheat Breeding Researchs In South Marmara Region. General Directorate of Agricultural Research and Policies, TAGEM/TA/09/07/01/003 no'lu Project Final Report (2009-20013)

5. **Project Result Report**

Demir, L., Özseven, İ., Orhan, Ş., Canıgeniş, G., Urin, V., Ağı, Y., Cengiz, B., Karabulut, Z., 2019. Bread Wheat Breeding Researchs In South Marmara Region. General Directorate of Agricultural Research and Policies, TAGEM /TBAD/14/A12/P01/001 no'lu Project Final Report (2014-20018)

6. **Project Result Report**

Aydın, N., Sayaslan, A., Savaşlı, E., Önder, O., Özcan, H., Bayramoğlu, H.O., Demir, L., Orhan, Ş., 2016. Determination of phenotypic variation and genotype x environment interaction in a recently developed mapping population of bread wheat for agronomic, quality and disease-resistance traits. The Scientific and Technological Research Council of Turkey - Agriculture, Forestry & Veterinary Sciences Research Grant Group, TÜBİTAK (TOVAG 112 O 135), Project Final Report.



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

1. Plant Breeding Course (1-5 March-2004) – Antalya
2. International Winter Wheat Traveling Seminar (8-13 Haziran 2009)- Ukraine
3. Training of Resistant Breeding on the wheat Rust Diseases (18-19 June 2012) - Ankara
4. Basic Wheat Improvement Course, (1 Mart-31 Mayıs 2013, Mexico
5. Training Course “Improvement of Station Management and Enhancement of Experimental Work Precision”. (26-27 Sep. 2013) – Konya
6. “Statistical Analyses of Plant Breeding Trails” (17-23 Nov. 2013) - Ankara
7. 10th Annual Training Course on “Standardization of Stem Rust Field Notes and Germplasm Evaluation, With Discussion on Stripe and Leaf Rust”. (29th Sep. To 9th Oct. 2018) - Njoro/Kenya