



**TAGEM**  
R&D AND INNOVATION

BLACK SEA AGRICULTURAL RESEARCH  
INSTITUTE / SAMSUN

## DR. REYHAN AYDIN

### Agricultural Engineer (PhD)

#### EDUCATION

- Assoc. prof**
- PhD** 2006-2012 Ondokuz Mayıs University  
G. School of Natural and Applied Sc.
- MSc** 2003-2006 Ondokuz Mayıs University  
G. School of Natural and Applied Sc.
- Bachelor's Degree** 1998-2002 Ondokuz Mayıs University  
Faculty of Agriculture, Field Crops Dep.
- LANGUAGE** English UDS 51

#### CAREER

- 2011- ..... - Researcher – Black Sea Agricultural Research  
Institute - SAMSUN

#### ABOUT ME

She was born in Samsun in 1979. He graduated from Ondokuz Mayıs University, Faculty of Agriculture, Department of Field Crops in 2002. She completed her master's education in Ondokuz Mayıs University, Institute of Science and Technology, Department of Field Crops in 2006, and her doctorate education in the same department in 2012. She started to work as a researcher at the Black Sea Agricultural Research Institute in 2011 and continues to work in the of Food Grain Legumes Field.

#### CONTACT

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#### ▪ **PROJECTS**

##### ▪ **Projects Conducted**

1. Determination of Botanical and Some Cytogenetic Characteristics of Local Pea Genotypes in the Black Sea Region – OMÜ BAB – 2005 (Assistant Researcher)
2. Collection, Characterization, Determination of Some Yield and Quality Properties of Local Dry Beans and Populations in Artvin Province – TÜBİTAK – 2007 (Bursary)
3. New Cowpea (*Vigna unguiculata* L.) Varieties for Our Country – OMÜ BAB – 2011 (Assistant Researcher)
4. Determination of Some Physicochemical Properties of Pea Genotypes Planted in Samsun and Evaluation of Suitability as Breeding Material – OMÜ BAB – 2011 (Assistant Researcher)
5. Investigation of Use Opportunities of Some Agricultural Residues in Bioethanol Production – TAGEM – 2015 (Assistant Researcher)
6. Adaptation of False Flax (*Camelina sativa* L. (Crantz)) and Determination of Biofuel Quality – TAGEM –2014-2016 (Leader)
7. Identification of Edible Variety Candidates with Different Uses Suitable for the Central Black Sea Region from Local Pea Lines Selected by Selection Breeding - TÜBİTAK 1003 - 2015-2017 (Researcher)
8. Generation Z Meets with Agriculture - TÜBİTAK 4004 - 2015 (Assistant Researcher)
9. First Step to Soil – Samsun Governorship ARGE – 2015-2016 (Member of the Executive Board)
10. Generation Z Meets with Agriculture 2 - TÜBİTAK 4004 - 2016 (Assistant Researcher)
11. Generation Z Meets with Agriculture 3- TÜBİTAK 4004 - 2017 (Assistant Researcher)
12. Generation Z Meets with Agriculture 4- TÜBİTAK 4004 - 2018 (Assistant Researcher)

##### ▪ **Ongoing Projects**

1. Black Sea Region Dry Bean Breeding Researches – TAGEM - 2019-2023 (Leader)
2. National Dry Bean Breeding Researches – TAGEM - 2019-2023 (Leader)
3. Black Sea Region Chickpea (*Cicer arietinum* L.) Breeding Research – TAGEM - 2019-2023 (Assistant Researcher)



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### ▪ **PUBLICATIONS**

#### ▪ **INTERNATIONAL ARTICLES AND PAPERS**

##### ▪ **Articles Published in International Journals**

1. Bozođlu, H., **Karayel, R.**, 2006. Investigation of stomata densities in pea (*Pisum sativum* L.) lines/cultivars. Online Journal of Biological Science, 6 (2):45-50, ISSN 1608-4117.
2. **Karayel, R.**, Bozođlu, H., 2015. Tryptophane and Raw Protein Contents of Local Pea (*Pisum sativum* L.) Lines for Different Sowing Dates. Journal of Agricultural Sciences, 21, 337-345.
3. **Karayel, R.**, Bozođlu, H., 2015. The Change of Some Physicochemical Properties Depending on The Sowing Times in Local Pea Genotypes. Bulgarian Journal of Agricultural Science, 21:1, 109-117
4. **Karayel, R.**, Bozođlu, H., 2015. Determination of morphological variability of local pea genotypes. Ekin Journal of Crop Breeding and Genetics, 1-2, 56-64.
5. **Karayel, R.**, Bozođlu, H., 2022. Stabilities of Some Local Pea Lines. JAS, 28 (1): 83-89

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

1. **Karayel R.**, Bozođlu, H., 2013. Determination of Physicochemical Properties of Local Pea Genotypes in Turkey. (Poster Poster Presentations). First Legume Sociey Conference 2013: A Legume Odyssey-Novı Sad, Serbia, 9-11 May 2013, Abastract of Book. 57 p
2. **Karayel R.**, Bozođlu, H., 2013. Determination of Morphological Variability of Local Pea Genotypes. (Poster Poster Presentations) International Plant Breeding Congrss10-14 November 2013 Antalya, Turkey, Abstract Book, 621 p
3. **Karayel R.**, Gizlenci, Ő., Acar, M., 2013. Camelina (*Camelina sativa* (L.) Crantz) Breeding Opportunities and Goals in Turkey. (Poster Poster Presentations) International Plant Breeding Congrss10-14 November 2013 Antalya, Turkey, Abstract Book, 326 p
4. Bozođlu H., **Karayel R.**, Topal N., Őulha G., 2016. Determination of Genotype x Environment Interactions of Some Agronomic Characters in Cowpea (*Vigna unguiculata* L.). (Oral Presentations) (Full Text). VII International Scientific Agriculture Symposium - Agrosym 2016, Jahorina, 6-9 October 2016. 315-322 p
5. **Karayel R.**, Bozođlu H., 2016. Relationship Between Physicochemical Components of Pea (*Pisum sativum* L.) Genotypes. (Poster Presentations). Second International Legume Society Conference (2ILSC), Portugal, 11-14 October 2016.
6. Somuncu Demir, N., Atagün, G., Kobal Bekar, N., **Karayel, R.**, Őelik Ertekin, D., Murat Dođru, Ő., 2017. Tarımda Z KuŐađı 2: Bir TUBEİTAK 4004 Projesi Deđerlendirmesi. IX. International Congress of Educational Research. 11-14 Mayıs, Ordu. Özet Kitabı, s: 61-62.
7. **Karayel, R.**, Uzun, A., Bozođlu, H., 2018. Effect of Farmyard Manure Doses on Quality and Yield of Chickpea (*Cicer arietinum* L.). I. International Agricultural Science Congress, Oral Presentations, Abstract Book, 09-12 May 2018, Van / Turkey, 280 p.
8. **Karayel, R.**, Acar, M., Őelik, E. A., 2018. Genotype x Environment Interactions and Stability Analysis of Some Properties In The Camelina Plant (*Camelina sativa* L. (Crantz)). International Agricultural Science Congress, Poster Presentations, Abstract Book, 09-12 May 2018, Van / Turkey, 235 p.



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9. Bozođlu, H., Topal, N., **Karayel, R.**, 2018. Determining of the Relationships Between Seed Yield and Leaf Characteristics in Cowpea. (Oral Presentation) (Full Text). IX. International Agriculture Symposium "Agrosym 2018" Jahorina, 4-7 October 2018, Bosnia and Herzegovina.
10. **Karayel, R.**, Bozođlu, H., 2019. Determination of Genotype x Environmental Interactions and Stability of Yield Values in Pea Genotypes. (Oral Presentations) (Abstract). World Conference on Sustainable Life Sciences, 30 June – 07 July 2019, Budapest, Hungary.
11. Bozođlu, H., **Karayel, R.**, Çulha, G., 2019. Comparison of the Chemical Analysis and NIR Results of Some Quality Properties in Pea. (Oral Presentations) (Abstract). World Conference on Sustainable Life Sciences, 30 June – 07 July 2019, Budapest, Hungary.
12. Atagün, G., Bekar, N., **Karayel, R.**, Ertekin, D., Dođru, Ş., Artık, C., 2015. Z Generation Meets Agriculture. 4<sup>th</sup> World Conference on Educational and Instructional Studies, 05-07 November, Antalya, s. 55.

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

1. **Karayel, R.**, Bozođlu, H., 2008. Some Agronomic Characteristics of the Local Pea Population Collected From Different Regions of Turkey. *Anadolu Journal of Agriculture Science*, 23(1):32-38.
2. **Karayel, R.**, Bozođlu, H., 2013. Local Pea (*Pisum sativum* L.) Genotypes Suitable for Forage Cultivation. *Academic Journal of Agriculture*, 1(2):83-90.
3. **Karayel, R.**, Topal, N., Bozođlu, H., 2016. The Effect of Different Sowing Frequencies on Leaf Area and Yield Components of Broad Bean (*Vicia faba* L.). *Journal of Central Research Institute for Field Crops* 2016, 25 (Special Number-1): 213-219.
4. **Karayel, R.**, Bozođlu, H., 2017. Relationships Between Some Physicochemical Characteristics of Pea (*Pisum sativum* L.) Genotypes. *Journal Of Central Research Institute For Field Crops*. 2017, 26 (Özel Sayı): 92-98.
5. Kefeli, N., Atagün, G., Bekar, K. N., **Karayel, R.**, Ertekin, Ç. D., Dođru, M. Ş., Güner, P., 2018. Generation Z Meets with Agriculture 3 " Evaluation of Nature Education Project. *Fen Bilimleri Öğretimi Dergisi*. 6(1): 96 – 119.
6. **Karayel, R.**, Uzun, A., Bozođlu, H., 2020. Effect of Farmyard Manure Doses on Yield and Quality of Chickpea (*Cicer arietinum* L.). *BSEU Journal of Science*, Volume 7 – 100 Year Special Issue to commemorate the 100th Anniversary of the National Struggle and the Inauguration of the TBBM, 279-288.

▪ **National Papers, Seminars, etc.**

1. **Karayel, R.**, 2005. The Function of Stoma in Plants and Its Agricultural Importance (Master's Seminar - Ondokuz Mayıs University, Institute of Science and Technology, Department of Field Crops - 2005)
2. **Karayel, R.**, Bozođlu, H., 2007. Identification of Local Pea Material Collected from Different Parts of Turkey. Turkey VII. Field Crops Congress, 25-27 June Erzurum, 657-661.
3. **Karayel, R.**, 2008. Drought, High Temperature Stress in Plants and Studies in Legumes (Doctorate Seminar - Ondokuz Mayıs University, Institute of Science, Department of Field Crops - 2008)



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4. **Karayel, R.**, Bozođlu, H., 2009. Correlation and Path Analysis of Pea (*Pisum sativum* L.) Genotypes. Turkey VIII. Field Crops Congress, 19-22 October, Hatay, 712-716.
5. Bozođlu, H., **Karayel, R.**, 2011. Seed Quality Characteristics of Cowpea Genotypes Grown under Different Ecological Conditions. IX. Field Crops Congress 12-15 September, Bursa, 692-695.
6. **Karayel, R.**, Bozođlu, H., 2011. Traditional Consumption Patterns of Legumes in Turkey. IX. Field Crops Congress, 12-15 September, Bursa, 607-612.
7. Bozođlu, H., **Karayel, R.**, Topal, N., 2011. Some Grain Characteristics of Newly Registered Cowpea Cultivars. Turkey IV. Seed Congress, 14-17 June, Samsun, 175-180.
8. **Karayel, R.**, Bozođlu, H., 2011. Some Properties of Pea (*Pisum sativum* L.) Seeds of Different Ages and their Effects on Germination. Turkey IV. Seed Congress, 14-17 June, Samsun, 84-90.
9. Aksoy, M., Efendiođlu Çelik, A., Atagün, G., **Karayel, R.**, 2012. Production of Biodiesel from Some Vegetable Oils and Determination of Important Fuel Properties. Energy Agriculture and Biofuels 2nd National Workshop, 24-25 May 2012, Tokat.
10. **Karayel, R.**, Bozođlu H., 2013. Grain Quality Characteristics of Local Pea Genotypes Planted in Winter and Early Spring. Turkey X. Field Crops Congress, 10-13 September, Konya, Cilt 1: 912-918.
11. Özçelik, H., Uzun, A., Yılmaz, S., Sözen, Ö., **Karayel, R.**, 2013. Determination of Some Agricultural Characteristics of Chickpea (*Cicer arietinum* L.) Lines Developed for the Mid-Black Sea Mid-Pass Region. Turkey X. Field Crops Congress, 10-13 September, Konya, Cilt 1: 936-941.
12. Uzun, A., Yılmaz, S., Özçelik, H., **Karayel, R.**, Sözen, Ö., 2013. Some Vegetative Characteristics of Chickpea Genotypes of Different Species and Origin in Samsun Conditions. Turkey X. Field Crops Congress, 10-13 September, Konya, Cilt 1: 1083-1090.
13. Efendiođlu Çelik, A., Aksoy, M., **Karayel, R.**, Acar, M., 2013. Production of Bioethanol from Waste Potato. IX. National Clean Energy Symposium, 25-28 December 2013, Konya.
14. **Karayel, R.**, Bozođlu H., 2014. The Relationship Between the Germination Abilities of Pea Genotypes at Different Temperatures and the Grain Content. 19-23 October 2014 Diyarbakır Turkey 5th Seed Congress & Sectoral Business Forum with International Participation, 70-75.
15. **Karayel, R.**, Topal, N., Bozođlu, H., 2015. The Relationship Between Leaf Area and Yield Components in Broad Bean (*Vicia faba* L.) Planted at Different Sowing Frequencies. 11th Field Crops Congress 7-10 September 2015 Çanakkale.
16. **Karayel, R.**, Acar, M., Gizlenci, Ş., Çelik, A., 2015. Some Agronomic Characteristics of False Flaks (*Camelina sativa* (L.) Crantz) Population. YABITED II. Vegetable Oil Congress 7-9 May 2015 Tekirdađ, 127
17. **Karayel, R.**, Acar, M., Gizlenci, Ş., Çelik, A., 2016. Adaptation of False Flaks (*Camelina sativa* L. (Crantz)) Plant. 2nd National Biofuels Symposium. September 27-30 2016, Samsun.
18. **Karayel, R.**, Bozođlu H., 2017. Relationships Between Some Physicochemical Characteristics of Pea (*Pisum sativum* L.) Genotypes. Türkiye 12. Field Crops Congress 12-15 September 2017 Kahramanmaraş, Proceedings Electronic Congress Book, s: 533.
19. **Karayel, R.**, Acar, M., Gizlenci, Ş., Çelik, A., 2017. Some Agronomic Characteristics of False Flaks (*Camelina sativa* L. (Crantz)) Plant in the Central Black Sea Region. Turkey 12th Field Crops Congress 12-15 September 2017 Kahramanmaraş, Proceedings Electronic Congress Book, p: 112-116.



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#### ▪ **OTHER PUBLICATIONS**

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

1. Determination of Some Agronomic Components and Characterization of Local Pea Genotypes (Master Thesis - Ondokuz Mayıs University, Graduate School of Natural and Applied Sciences, Department of Field Crops - 2006)
2. Determination of Some Physicochemical Components of Pea Genotypes Sown in Samsun and Evaluation of Their Suitability for Breeding (Doctoral Thesis - Ondokuz Mayıs University, Graduate School of Natural and Applied Sciences, Department of Field Crops - 2012)

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

1. Member of the National Legume Council (2019 - ....)
2. Evaluation of Experimental Plans Widely Used in Agricultural Research with the Help of Different Statistics Package Programs” course, 11-15 June 2007, Ondokuz Mayıs University, Faculty of Agriculture, Samsun. (Participant)
3. Statistics and Trial Techniques Training. 06-10 February 2012, Samsun. (Participant)
4. “Energy Agriculture and Biofuels 2nd National Workshop” 24-25 May 2012, Gaziosmanpaşa University Faculty of Agriculture, Department of Biosystem Engineering, Tokat. (Participant)
5. III. National Wetlands Congress” 23-25 October 2013, Ministry of Forestry and Water Affairs – Ondokuz Mayıs University, Samsun. (Participant)
6. “National Academic R&D Project Support Programs Introduction and Project Proposal Preparation Training Program”, Scientific and Technological Research Council of Turkey – Research Support Programs Presidency), 8-9 March 2014, Antalya. (Participant)
7. “19th Term Basic Photography Education”, Samsun Photography Art Association, 19 January – 26 February 2015. (Participant)
8. “Educational Grain Legumes Workshop” 10-11-12 May 2017 Mersin. (Participant)
9. “4. World Pulses Day – R&D Studies in Pulses Sector and Industry Cooperation Meeting” 8-9 February 2019 Mersin. (Participant)