



TAGEM
R&D AND INNOVATION

DIRECTORATE OF PLANT PROTECTION CENTRAL
RESEARCH INSTITUTE / ANKARA

MELİS SEİDİ ARSLAN, MSc Agricultural Engineer

EDUCATION

- Assoc. prof**
- PhD** 2017-.... Ankara University
Graduate School Of Natural and Applied Sciences,
Plant Protect Department, Phytopathology
- MSc** 2008-2011 Uludağ University
Graduate School Of Natural and Applied Sciences,
Plant Protection Department
- Bachelor's Degree** 2003-2008 Uludağ University
Faculte of Agriculture Department of Plant
Protection
- LANGUAGE** YÖKDİL (English): 74

CAREER

- 2020-** : Agricultural Engineer (PhD Candidate) -
Department of Phytopathology / Cereal
Diseases Unit - Directorate of Plant Protection
Central Research Institute-ANKARA
- 2012-2019** : Agricultural Engineer (MSc.) - Department of
Plant Protection/ Cereal Diseases Unit - Thrace
Agricultural Research Institute - EDİRNE

ABOUT ME


I was born in Bursa. In 2008, I graduated from Uludağ University Faculty of Agriculture as 'Second in Faculty' and 'First in Plant Protection Department'. In 2011, I completed my master's degree at Uludag University, Institute of Graduate School Of Natural and Applied Sciences, Plant Protection. Since 2017, I have been continuing my doctorate education in Ankara University, Institute of Graduate School Of Natural and Applied Sciences, Plant Protection Department, Phytopathology.

I started my professional education in 2012 at the Cereal Diseases Unit of the Plant Health Department of the Thrace Agricultural Research Institute (EDİRNE), and I continue to work in the Plant Diseases Department of the Cereal Diseases Laboratory of the Directorate of Plant Protection Central Research Institute (ANKARA) in 2020.

CONTACT

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PROJECTS

Projects Conducted

1. Bitki Zararlıları Tarafından Teşvik Edilen Bitki Kokularının Bazı Önemli Predatör Türler Üzerine Etkisi (Researcher, Uludağ University (BAP), 2010-2011)
2. Breeding Studies on Rice Resistant to Rice Blast Disease (*Magnaporthe grisea*) (Researcher, TAGEM-IRRI, 2013-2020).
3. National Cool Climate Cereal Disease Research Project (Yardımcı Araştırmacı, TAGEM, 2013-2018).
4. Trakya Bölgesi Buğday Ekiliş Alanlarında Görülen Septorya Yaprak Lekesi Hastalığının (*Septoria tritici* Rob. Ex Desm.) Yaygınlığı, Patotiplerinin ve Bazı Çeşit ve Hatlarının Reaksiyonlarının Belirlenmesi (Leader, TAGEM, 2015-2018).
5. Detection of Lr (9-19-24-28) Genes Providing to Leaf Rust (*Puccinia recondita* Rob. et Desm.) Disease Resistance in Some Bread Wheat Genotypes by Molecular Marker Method and Determining the Reactions of Varieties to Leaf Rust in Field Conditions (Researcher, TAGEM, 2015-2018).
6. Hybrid Rice Breeding Project (Researcher, TAGEM, 2016-2019).
7. Thrace-Marmara Region Rice Breeding Research Project (Researcher, TAGEM, 2017-2019).
8. Marmara Region Safflower Breeding Studies (Researcher, TAGEM, 2019).
9. İnsansız Hava Aracı İle İlaç Uygulamalarının Gerçekleştirilme İmkanları (Researcher, TAGEM R&D and Innovation, 2021).

Ongoing Projects

1. Determination of the races and genetic variation of *Pyricularia oryzae* (rice blast disease) in Marmara region and assessment of the reactions of some rice varieties to rice blast. (PhD. Thesis) (Leader, TAGEM, 2022- 2024).
2. Detection of Rust Diseases (*Puccinia* spp.) in Oat Fields and Determination of Resistance of Some Oat Genotypes to Stem Rust (*Puccinia graminis* f. sp. *avenae*) Races (Researcher, TAGEM, 2022-2025).
3. Studies on the standard drug trial method based on the investigation and control of the biological effectiveness of Acibenzolar S-methyl (ASM) against stem and ear rot disease (*Fusarium verticillioides*) in maize (Leader, TAGEM R&D and Innovation, 2022).
4. Investigation of the possibilities of reducing the amount of toxin formed as a result of Head Blight (*Fusarium culmorum*, *F. graminearum*) disease in wheat by chemical control. (Researcher, TAGEM R&D and Innovation, 2022-2024).
5. National Winter Wheat Breeding Coordination (Researcher, TAGEM, 2023-2027).
6. Determining the prevalence and agents of cereal bunt disease (*Tilletia* spp.) (Researcher, TAGEM, 2023-2025)



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■ PUBLICATIONS

■ INTERNATIONAL ARTICLES AND PAPERS

■ Articles Published in International Journals

1. Gencer, N.S., N.A. Kumral, H.O. Sivritepe, **M. Seidi**, H. Susurluk & B. Senturk. 2009. Olfactory Response of the Ladybird Beetle *Stethorus gilvifrons* to Two Preys and Herbivore-Induced Plant Volatiles. *Phytoparasitica*, 37, 217-224.
2. Tülek A., Kepenekci I., Ciftçigil T.H., Ozturk I., Akin K., **Seidi M.**, Yıldırım M. & Dababat A. A. 2015. Effects of seed-gall nematode, *Anguinatritici*, on bread wheat grain characteristics and yields in Turkey. *Nematology*, Volume 17, Issue 9, pp: 1099 – 1104.
3. Gençer N.S., N.A. Kumral, **M. Seidi** & B. Pehlevan. 2017. Attraction responses of ladybird beetle *Hippodamia variegata* (Goeze, 1777) (Coleoptera: Coccinellidae) to single and binary mixture of synthetic herbivore-induced plant volatiles in laboratory tests. *Turkish Journal Of Entomology*, 41 (1): 17-26.
4. Öztürk İ., R. Avcı, V. Ç. Girgin, A. Tülek, T. H. Çiftçigil, **M. Seidi**, K. Akın & B. Tuna. 2016. Evaluation of the Barley (*Hordeum vulgare* L.) Genotypes under Various Environmental Condition in Trakya Region. *Current Problems And Horizons For The Agricultural Education, Science And Business* 12-13 May 2016. Trakia University, Stara Zagora, Bulgaria.
5. Öztürk İ., Çiftçigil T.H., Avcı R., Kahraman T., Girgin V.Ç., **Seidi M.**, Tülek A., Akın K. & Tuna B. 2017. Effect of The Location on Some Biotic Stress and Agronomic Characters in Barley (*Hordeum vulgare* L.) Genotypes. *Journal of International Scientific Publications*, Vol: 5, pp: 562-570. 5. Scientific Conference, Agriculture and Food. 20-24 June 2017, Elenite, Bulgaria.
6. Öztürk İ., Çiftçigil T.H., Kahraman T., Avcı R., **Seidi M.**, Girgin V.Ç., Tülek A., Akın K. & Tuna B. 2017. Relationship among Biotic Stress Factors and Agronomic Characters in Bread Wheat (*Triticum aestivum* L.) Genotypes under Various Environmental Condition. *Journal of International Scientific Publications*, Vol: 5, pp: 551-561. 5. Scientific Conference, Agriculture & Food. 20-24 June 2017, Elenite, Bulgaria.
7. **Seidi M.**, Karakaya A., Akın K. & Çelik Oğuz A.Ç., 2020. Current Situation of Rice Blast Disease in Edirne, Turkey. In: Brka M., Omanović-Miklićanin E., Karić L., Falan V., Toroman A. (eds) 30th Scientific-Experts Conference of Agriculture and Food Industry. *AgriConf 2019. IFMBE Proceedings*, vol 78. Springer, Cham. Pp: 92-97.



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▪ PUBLICATIONS

▪ INTERNATIONAL ARTICLES AND PAPERS

▪ International Papers, Seminars, etc.

1. **Seidi, M.** & Gençer, N.S. 2010. Olfactory Response of the Acarophagous Ladybird Beetle, *Stethorus gilvifrons* and the Generalist Predator *Orius laevigatus* to Synthetic Herbivore-induced Plant Volatiles. IX. European Congress of Entomology 22-27 August, Budapest, Hungary, 159-160.
2. **Seidi, M.** & N. S. Gençer. 2012. Olfactory Response of the ladybird beetle *Stethorus gilvifrons* to herbivore-induced Plant Volatiles From *Tetranychus urticae* Infested Bean, Tomato and Melon Plants. Semio-Chemical: The Essence of Green Pest Control IOBC/WPRS Working Group 'Pheromones and Other Semio-Chemicals in Integrated Production. 1-5 October. Bursa, Turkey, 137.
3. Karagöz, E., Mert, Z., Öztürk, İ., Akan, K., **Seidi, M.**, Akın, K., Girgin & V.Ç., 2014, Wheat Rust Situation in Thrace Region in 2014, Balkan Agriculture Congress, 8-10 September, Edirne, Turkey, 768.
4. Tülek A., Mert Z., Akan K., Öztürk İ., Avcı R., Kahraman T., **Seidi M.**, Girgin Ç., Akın K. & Çiftçigil H. 2015. Investigation of effect of leaf rust, (*Puccinia triticina* f. sp. *tritici*) on some resistant genes (Lr) under field conditions in Thrace region. 2nd International Symposium for Agriculture and Food, 7-9 October, Ohrid, Republic of Macedonia.
5. Ruşen M., Sürek H. & **Seidi M.** 2015. BENTOZONE+ MCPA Etken Maddeli Herbisitlerin Çeltik Üretim Alanlarında Sorun Olan Yabancı Ot Türlerine Etkisinin Araştırılması. Uluslararası Katılımlı Konuralp Çeltik Çalıştayı, 14-16 Aralık, Düzce, Türkiye.
6. Ünan R., Sürek H. & **Seidi M.**, Şahin M. 2015. Hybrid Rice and Prospects For Turkey. Uluslararası Katılımlı Konuralp Çeltik Çalıştayı, 14-16 Aralık, Düzce, Türkiye.
7. Ünan R., **M. Seidi** & X. Zhou. 2016. Screening of rice varieties for resistance to rice blast in Turkey. 36th Rice Technical Working Group Meeting, 1-4 Mart, Galveston, Texas, ABD.
8. Öztürk İ., R. Avcı, V. Ç. Girgin, A. Tülek, T. H. Çiftçigil, **M. Seidi**, K. Akın, & B. Tuna. 2016. Evaluation of the Barley (*Hordeum vulgare* L.) Genotypes under Various Environmental Condition in Trakya Region. Current Problems And Horizons For The Agricultural Education, Science And Business 12-13 May 2016. Trakia University, Stara Zagora, Bulgaria.
9. Öztürk İ., T. Kahraman, R. Avcı, V. Ç. Girgin, A. Tülek, **M. Seidi**, T. H. Çiftçigil, B. Tuna & K. Akın. 2016. Ekmeklik Buğday (*Triticum aestivum* L.) Genotiplerinde Çevre Koşullarının Agronomik Karakter ve Biyotik Stres Faktörlerine Etkisi. Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, 5-8 Eylül, Konya, Türkiye, 764.
10. **Seidi M.** & N. S. Gençer. 2016. Olfactory Response Of Adult Acarophagous Ladybird Beetle *Stethorus gilvifrons* To Single Synthetic Hipvs And Blends. 27th International Scientific-Expert Conference of Agriculture and Food Industry. 26-28 Eylül, Bursa, Türkiye, 276.



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PUBLICATIONS

INTERNATIONAL ARTICLES AND PAPERS

International Papers, Seminars, etc.

11. Ünan R., T. Genctan, **M. Seidi** & H.Sürek. 2016. Effect of Sowing Dates and Meteorological Factors on Rice Blast Under Mediterranean Conditions. 7th International Rice Blast Conference, 9-13 Ekim, Muntinlupa, Metro Manila, Filipinler.
12. Sürek H.,N. Beşer, K.K. Jena, R. Ünan, A. Tülek & **M. Seidi**. 2017. Rice Blast Resistance Breeding Studies in Turkey. 6th International Temperate Rice Conference, 6-9 Mart, Leeton, NSW, Griffith, Avustralya.
13. Öztürk İ., V. Ç. Girgin, R. Avcı, T. Kahraman, T. H. Ciftçigil, **M. Seidi**, A. Tülek & K. Akin. 2017. Effect of the Environment Conditions on Yield and Agronomic Traits in Barley (*Hordeum vulgare* L) Cultivars. 2nd International Balkan Agriculture Congress, 16-18 Mayıs, Tekirdağ, Türkiye. Pp: 322-329. ISBN: 978-605-4265-49-7.
14. Öztürk İ., Çiftçigil T.H., Kahraman T., Girgin V.Ç., Şen A., **Seidi M.**, Avcı R., Tülek A., Tuna B. & Akın K. 2017. Evaluation of Bread Wheat (*Triticum aestivum* L.) Genotypes Based on Biotic Stress Factors and Agronomic Characters, VIII International Agriculture Symposium "AGROSYM 2017". 05-08 Ekim, Jahorina, Bosna ve Hersek. Pp: 399. ISBN 978-99976-632-9-0.
15. **Seidi M.**, A. Tülek, B. Tülek, Ö. Bilir, İ. Öztürk & K. Akın. 2017. Determination of Reaction of Some Bread Wheat Genotypes Against Septoria (*Septoria tritici* Rob. ex. Desm.) Isolate Collected from Trakya Region in *In Vitro* Conditions. XIII. Uluslararası Katılımlı Ekoloji ve Çevre Kongresi, 12-15 Eylül, Edirne, Türkiye. Pp: 423.
16. **Seidi M.**, Karakaya A., Akın K. & Çelik Oğuz A., 2019. Current Situation of Rice Blast Disease in Edirne, Turkey. 30th International Scientific-Expert Conference of Agriculture and Food Industry, 25-27 September, Sarajevo, Bosnia Herzegovina, Pp: 29
17. Ünan R., Sürek H. & **Seidi M.** 2019. Sitoplazmik Erkek Kısır (CMS) Yerli Çeltik Hatları Geliştirilmesi. Türkiye 13. Ulusal I. Uluslararası Tarla Bitkileri Kongresi, 1-4 Kasım, Antalya, Türkiye, Pp: 130
18. **Seidi Arslan, M.**, Akci, N., Büyük, O. Erdoğan Bağçeci, S., Çeri, S. Kahraman, T. 2022. Reactions of Root Rot (*Fusarium nygamai* Burgess & Trimboli 1986) Disease in Some Oat Varieties. 8th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, 329-336.
19. Duman, K., Büyük, O., Akci, N., Erdoğan Bağçeci, S., **Seidi Arslan, M.**, Karahan, A. 2022. Preliminary Studies on Biological Control of Wheat Root Rot Diseases. 8th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, 321-328.
20. Erdoğan Bağçeci, S., Büyük, O., **Seidi Arslan, M.**, Akci, N., Urin, V. 2022. The Effectiveness of *Trichoderma* spp. Against The Important Causal Agents of Corn Root Rot Disease in Invitro Conditions. 8th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, 121-125.



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PUBLICATIONS

INTERNATIONAL ARTICLES AND PAPERS

International Papers, Seminars, etc.

- 21.** Akci, N., **Seidi Arslan, M.**, Erdoğan Bağçeci, S., Büyük, O. Kahraman, T. Çeri, S. 2022. Determination of The Reaction of Some Oat Cultivars to *Fusarium equiseti* Causing by Root Rot Disease. 8th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, 337-341.
- 22.** Urin, V., Akci, N., Büyük, O., Erdoğan Bağçeci, S., **Seidi Arslan, M.** Esmeray, M. 2022. Determination of The Reaction of Some Maize Genotypes to Ear Rot Disease Caused by *Fusarium verticilloides* .8th International Cereal Nematodes Symposium, 26-29 September, Bolu, Türkiye, 343-349.



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PUBLICATIONS

NATIONAL ARTICLES AND PAPERS

Articles Published in National Journals

1. Öztürk İ., Kahraman, T., Avcı, R., Girgin, V.Ç., Tülek, A., **Seidi, M.**, Çiftçigil, T. H., Tuna, B. & Akın, K.. 2016. Ekmeklik Buğday (*Triticumaestivum* L.) Genotiplerinde Çevre Koşullarının Agronomik Karakter ve Biyotik Stres Faktörlerine Etkisi. Uluslararası Katılımlı Türkiye VI. Bitki Koruma Kongresi, 5-8 Eylül, Konya, Türkiye, 764.
2. Öztürk, İ., Kahraman, T., Avcı, R., Girgin, V.Ç., Çiftçigil, T.H., **Seidi, M.**, Tülek, A., Akın, A. & Tuna, B. 2018. Ekmeklik Buğday (*Triticum aestivum* L.) Genotiplerinde Çevre Koşullarının Agronomik Karakterler ve Biyotik Stres Faktörlerine Etkisi. Journal of Bahri Dagdas Crop Research 7(1): 14-22. ISSN: 2148-3205.
3. **Seidi, M.** & Karakaya, A. 2021. Çeltik Yanıklık Hastalığı (*Pyricularia oryzae* Cav.)'nin Türkiye'deki Durumu. Journal of Bahri Dagdas Crop Research, 10 (2):206-212.
4. **Seidi Arslan, M.**, Babaoğlu, M. & Karakaya, A. 2022. Edirne İlinde Bazı Linoleik ve Oleik Aspir Genotiplerinde Aspir Pas Hastalığı (*Puccinia carthami*) 'na Karşı Reaksiyon Durumu. COMU Journal of Agriculture Faculty 10 (1): 143-150.

International Papers, Seminars, etc.

1. Gençer, N.S., N. A. Kumral, **M. Seidi** & F. Gür. 2011. Zararlı Kaynaklı Bitki Uçucularının Doğal Düşmanlar Üzerine Etkileri. Uludağ Üniversitesi Bilgilendirme ve AR-GE Günleri. 15-16 Kasım. Bursa, Türkiye, 130.
Tülek A., Öztürk İ., Akan K., Mert Z., **Seidi M.**, Çiftçigil H., Avcı R., Girgin V. Ç. & Kahraman T. 2015. Bazı Ekmeklik Buğday (*Triticum aestivum* L.) Genotiplerinin Edirne Lokasyonunda Sarı Pas (*Puccinia striiformis*) Hastalığına Karşı Reaksiyonlarının Belirlenmesi. 11. Tarla Bitkileri Kongresi, 7-10 Eylül, Çanakkale, Türkiye.
2. **Seidi, M.** & R. Ünan. 2015. Farklı Çeltik Çeşitlerinin Çeltik Yanıklık Hastalığına Karşı Tepkisi. II. Ulusal Mikoloji Günleri II. Sempozyum, 9-11 Eylül, İstanbul, Türkiye. 77.
3. Ünan R. & **Seidi M.** 2016. Hibrit Çeltik Islahı için Yerli Çeşitlerde Restore Edici Genlerin Taranması. I. Ulusal Tarımsal Biyoteknoloji Kongresi. 1-3 Haziran, Samsun, Türkiye.
4. **Seidi M.**, A. Tülek. İ. Öztürk, K. Akın, R. Avcı & V. Ç. Girgin. 2016. Bazı Ekmeklik Buğday Genotiplerinin Septorya Yaprak Lekesi Hastalığına (*Septoria tritici* Rob. ex. Desm.) Tarla Koşullarında Reaksiyonlarının Belirlenmesi. 23. Ulusal Biyoloji Kongresi. 5-9 Eylül, Gaziantep, Türkiye, 282.
5. Sürek H., N. Beşer, K. K. Jena, R. Ünan, A. Tülek & **Seidi M.** 2017. Çeltik Yanıklık Hastalığına (*Magnaporthe oryzae*) Dayanıklı Çeşit Islahı Çalışmaları. Türkiye 12. Tarla Bitkileri Kongresi. 12-15 Eylül, Kahramanmaraş, Türkiye, 394-395.
6. Bitki Zararlıları Tarafından Teşvik Edilen Bitki Kokularının Bazı Önemli Predatör Türler Üzerine Etkisi. Uludağ Üniversitesi Fen Bilimleri Enstitüsü (Yüksek lisans Tez Semineri), 2010.
7. Çeltik Bitkisinde Görülen Yanıklık Hastalığı ve Bu Hastalık İle İlgili Türkiye'de ve Dünya'da Yapılan Bazı Çalışmalar. Ankara Üniversitesi Fen Bilimleri Enstitüsü (Doktora Semineri), 2019.
8. Marmara Bölgesinde *Pyricularia oryzae* (çeltik yanıklık hastalığı)'nın ırkları ile genetik varyasyonunun ve bazı çeltik çeşitlerinin hastalığa karşı reaksiyonlarının belirlenmesi. Ankara Üniversitesi Fen Bilimleri Enstitüsü (Doktora Tez Öneri Semineri), 2020.



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▪ **OTHER PUBLICATIONS**

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

1. The Effect of Herbivore Induced Plant Volatiles On Some Important Predator Species. Uludağ University Graduate School Of Natural and Applied Sciences, Plant Protect Department (MSc. Thesis), 2011.
2. Determination of the races and genetic variation of *Pyricularia oryzae* (rice blast disease) in Marmara region and assessment of the reactions of some rice varieties to rice blast. Ankara University Graduate School Of Natural and Applied Sciences, Plant Protect Department, Phytopathology (PhD Thesis), Continue.
3. Rice Integrated Control Technical Instruction (Rice Diseases and Control). General Directorate of Agricultural Research And Policies (TAGEM), Ankara, 2017. (Book Subject Authorship).
4. **Seidi, M.** & Karakaya, A. 2020. Observed Rice Blast Disease on Rice Plant (*Pyricularia oryzae* Cavara.). HARMANTIME May, 8 (87), Pp:46-50.
5. Corn; Breeding Techniques and Cultivation (Common Diseases in Corn Plant and Management), İKSAD, Ankara, ISBN: 978-625-8377-26-2, 2022.



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

1. Uludağ University Faculty of Agriculture Second Place in the Faculty Success Plaque/ Uludağ University (2008).
2. Uludağ University Faculty of Agriculture Plant Protection Department First Place Certificate of Achievement/ Uludağ University (2008).
3. Uludağ University Graduate Association Success Plaque/ Uludağ University Graduate Association (2008).
4. Uludağ University Rector's Success Scholarship / Uludağ University (2005-2008).
5. Rice Integrated Control (Rice Fungi Diseases) (The Training Provided).
6. Control of Cool Climate Cereals Diseases and Pests (The Training Provided).
7. Description, Analysis and Diagnostic Management of *Tilletia indica* (The Training Provided).
8. Powdery Mildew Disease in Cereals Diseases (*Erysiphe graminis* f.sp. tritici DC ex Merat) (The Training Provided).
9. Septoria Leaf Spot Disease on Cereals Diseases (*Septoria tritici* Berk.&M:A:Curtis=*Mycosphaerella graminicola* (Fuckel) J.Schöt) (The Training Provided).
10. Rice Blast Diseases (*Pyricularia oryzae* CAV., *Magnaporthe oryzae*) (The Training Provided).
11. The Importance of Sampling in Cereal (Seed) Diseases and Plant Quarantine and Sampling Methods (The Training Provided).
12. Cereal Rust Surveillance, Race Analysis and Management of Wheat Rust Diseases in Central Asia and Caucasus (FAO - ICARDA and Aegean Agricultural Research Institute Regional Cereal Rust Research Center/ İZMİR, 2022) (The Training Received).
13. English Course (Suat Gürcan Rıdvan Gürbüz Moda Language Academi Foreign Language Course/ANKARA (ICARDA-CIMMYT and TAGEM, 2022) (The Training Received).