



TRANSITIONAL ZONE AGRICULTURAL RESEARCH INSTITUTE / ESKISEHIR, TÜRKİYE

DR. BAHADIR CAN GÜZ

Engineer, Zootechnician

EDUCATION

PhD Wageningen University & Research

2017-2022 The Netherlands

Wageningen Institute of Animal Sciences

Adaptation Physiology Group

Poultry Sciences

MSc Ege University - Türkiye

2013-2016 Natural and Applied Sciences

Department of Animal Sciences Animal Breeding MSc Programme

BSc Ege University - Türkiye

2007-2012 Faculty of Agriculture

Agricultural Engineering

Department of Animal Sciences

Language English

IELTS 7.0

CAREER

2022-Present Engineer, Zootechnician, Researcher

Transitional Zone Agricultural Research Institute

Eskisehir, Türkiye

2017-2022 PhD Researcher

Adaptation Physiology Group, Wageningen University & Research Wageningen, The Netherlands

ABOUT ME

I was born on January 17, 1989. From my childhood, I have had a close relationship with poultry world because my father worked as a manager in an egg production company between 1985 and 2015. I made a career plan combining the poultry world with my education and academic life, and in 2007, I enrolled Izmir Ege University Agricultural Engineering Animal Science BSc programme. I took poultry related courses and wrote a thesis, "The past, present and future of incubators", to finish my BSc study. In 2012, I started my MSc at Ege University, Department of Animal Sciences. After taking poultry science related MSc courses, I wrote a thesis entitled "Effects of in-ovo leptin injection in broiler breeder eggs on hatchability and growth performance of broiler chickens". In 2015, I got a scholarship from General Directorate of Agricultural Research and Policies, Turkish Ministry of Agriculture and Forestry, to get my PhD abroad. My first aim was to get a position at Wageningen University and Research in The Netherlands, since this university is known as the best university in Agriculture, Forestry and Environmental Sciences in the world for many years. I focused on broiler chickens' breeding, nutrition, health, welfare and behaviour. I wrote a thesis entitled "Healthy Bones for Chicken Bones" focusing on the bone quality of broiler chickens, which I carried out in partnership with the Dutch Ministry of Agriculture, Nature and Food Quality and 10 commercial companies. In 2022, after getting my doctor degree, I was involved in the Türkiye's first and only broiler breeder production and development project, ANADOLU-T, at Eskisehir Transitional Zone Agricultural Research Institute. I am continuing to work as a doctor researcher and engineer in that project.

CONTACT

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Dr. Bahadır Can Güz - Google Scholar



Dr. Bahadır Can Güz – LinkedIn



Dr. Bahadır Can Güz - Researchgate





BOOKS & THESES

1. Güz, B.C., 2012. The Past, Present and Future of Incubators (BSc thesis) pp. 1-78

Supervisor: Prof. Dr. Özge Altan

Ege University, Faculty of Agriculture, Department of Animal Sciences, Izmir, Türkiye

2. **Güz, B.C.** (Lay-out – Editor – Cover Design)

Altan. Ö., 2015. pp. 1-216

Yumurta: oluşumu kalitesi ve biyoaktif komponentleri (Egg: formation, quality and bioactive components)

Akademic book, Ege University, Izmir, Türkiye

ISBN: 6058440009, 9786058440005 Weblink: https://bit.ly/3uh4sx8

3. Güz, B.C., 2016. Effects of in-ovo leptin injection in broiler breeder eggs on hatchability and growth performance of broiler chickens (MSc thesis) pp. 1-186

Supervisor: Prof. Dr. Özge Altan

Ege University, Natural and Applied Sciences, Department of Animal Sciences, Animal Breeding MSc

Programme, Ege University, Izmir, Türkiye

Weblink1: https://bit.ly/3vAn0sE
Weblink2: https://bit.ly/3gYn1CO

4. Güz, B.C., 2022. Healthy Bones for Broiler Chickens

Academic press (PhD Dissertation) pp. 1-326

Wageningen University and Research, Wageningen,

The Netherlands

ISBN: 978-94-6395-984-1

DOI: https://doi.org/10.18174/553659

PUBLICATIONS

- INTERNATIONAL ARTICLES & CONFERENCE PROCEEDINGS
- Articles Published in International Journals
- 1. **Güz, B.C.**, Molenaar, R., de Jong, I.C., Kemp, B., van den Brand, H. and van Krimpen, M., 2019. *Effects of dietary organic minerals, fish oil, and hydrolyzed collagen on growth performance and tibia characteristics of broiler chickens.* Poultry Science, 98(12), pp. 6552-6563

DOI: https://doi.org/10.3382/ps/pez427





- van Krimpen, M.M., Güz, B.C., de Jong, I.C., van den Brand, H. and Molenaar, R., 2019.
 Organische mineralen goed voor botkwaliteit. De Pluimveehouderij, 49(14), pp. 11-15
 Weblink: https://bit.ly/2PfBVca
- 3. van Krimpen, M.M., **Güz, B.C.**, de Jong, I.C., van den Brand, H. and Molenaar, R., 2018. *Onderzoek naar sterkere botten*. De Pluimveehouderij, pp. 28-29 Weblink: https://bit.ly/3ngFJGw
- Güz, B.C., Molenaar, R., De Jong, I.C., Kemp, B., Van Krimpen, M. and Van Den Brand, H., 2020. Effects of eggshell temperature pattern during incubation on tibia characteristics of broiler chickens at slaughter age. Poultry Science, 99(6), pp. 3020-3029
 DOI: https://doi.org/10.1016/j.psj.2019.12.042
- Güz, B.C., Molenaar, R., de Jong, I.C., Kemp, B., van Krimpen, M. and van den Brand, H., 2021.
 Effects of green light emitting diode light during incubation and dietary organic macro and trace minerals during rearing on tibia characteristics of broiler chickens at slaughter age. Poultry Science, 100(2), pp. 707-720
 DOI: https://doi.org/10.1016/j.psj.2020.11.042
- Güz, B.C., de Jong, I.C., da Silva, C.S., Veldkamp, F., Kemp, B., Molenaar, R. and van den Brand, H., 2021. *Effects of pen enrichment on leg health of fast and slower-growing broiler chickens.* PloS one, 16(12), p.e0254462.
 DOI: https://doi.org/10.1371/journal.pone.0254462
- 7. **Güz, B.C.**, Molenaar, R., De Jong, I.C. and Van Den Brand, H., 2021. *Organic minerals promote broiler leg quality*. Poultry World, Health/Nutrition Article, 15.11.21, pp. 1-7. Weblink: Organic minerals promote broiler leg quality Poultry World
- 8. **Güz, B.C.**, de Jong, I.C., Bol, U.E., Kemp, B., van Krimpen, M., Molenaar, R. and van den Brand, H., 2021. *Effects of organic macro and trace minerals in fast and slower growing broiler breeders' diet on offspring growth performance and tibia characteristics.* Poultry Science, 101(3), pp. 101647.

DOI: https://doi.org/10.1016/j.psj.2021.101647

9. van der Eijk, J. A. J., Bakker J., **Güz, B.C.**, van Krimpen, M., Molenaar, R., van den Brand, H. and de Jong, I.C., 2022. *Providing organic macro minerals and an elevated platform improved tibia characteristics and increased locomotion and performance of fast- and slower-growing broilers.* Poultry Science, 101(7), pp. 101973.

DOI: https://doi.org/10.1016/j.psj.2022.101973

10. **Güz, B.C.**, Molenaar, R., De Jong, I.C. and Van Den Brand, H., 2022. *Mineral source in parent feed affects broiler growth and bone development*. Poultry World, Nutrition Article, 04.11.22, pp. 1-5.

Weblink: Mineral source in parent feed affects broiler growth and bone development - Poultry World





International Conference Proceedings

- Güz, B.C., Molenaar, R., van Krimpen, M.M., van den Brand, H., de Jong, I.C. and Kemp, B., 2018.
 Effects of dietary supplementation of organic minerals, fish oil and hydrolyzed collagen on growth performance and tibia characteristics of broiler chickens. In WIAS Science Day 2018: WIAS: Work on your Impact in Animal Science and Society, pp. 27-27
 Weblink: https://library.wur.nl/WebQuery/wurpubs/533552
- Güz, B.C., Molenaar, R., de Jong, I.C., Kemp, B., van den Brand, H. and van Krimpen, M.M., 2018. Effects of dietary replacement of organic minerals, fish oil and hydrolyzed collagen on tibia characteristics of broiler chickens. In International Poultry Science Congress of WPSA Turkish Branch'2018, Niğde, Türkiye. pp. 479-479
 Weblink: https://library.wur.nl/WebQuery/wurpubs/547371
- 3. **Güz, B.C.**, Molenaar, R., de Jong, I.C., Kemp, B., van den Brand, H. and van Krimpen, M.M., 2018. *Effects of organic minerals, fish oil and hydrolyzed collagen in broiler diets on growth performance and tibia characteristics.* In The 15th European Poultry Conference (EPC), pp. 261-261

Weblink: https://library.wur.nl/WebQuery/wurpubs/547411

 Güz, B.C., Molenaar, R., Wijnen, H.J., van Krimpen, M.M., de Jong, I.C. and van den Brand, H., 2018. Eggshell temperature pattern during incubation affects leg bone characteristics of broiler chickens at slaughter age. In Abstracts of the Incubation and Fertility Research Group:(IFRG/WPSA Working Group 6), pp. 19-19

Weblink: https://library.wur.nl/WebQuery/wurpubs/547687

- 5. **Güz, B.C.**, Molenaar, R., de Jong, I., van Krimpen, M. and van den Brand, H., 2019. **Eggshell temperature patterns during incubation on tibia characteristics of broiler chickens at slaughter age.** In Proceedings of the 5th International Poultry Meat Congress, Antalya, Türkiye, pp. 18-18 Weblink: https://bit.ly/3e6k6pM
- Güz, B.C., Molenaar, R., de Jong, I., van Krimpen, M. and van den Brand, H., 2019. Eggshell temperature patterns during incubation on tibia characteristics of broiler chickens at slaughter age. In WIAS Science Day 2019, Lunteren, The Netherlands, pp. 11-11
 Weblink: https://library.wur.nl/WebQuery/wurpubs/549538
- Güz, B.C., Molenaar, R., de Jong, I.C., van Krimpen, M.M. and van den Brand, H., 2019. Effects of green LED light during incubation and dietary mineral variety during rearing on tibia characteristics of broiler chickens at slaughter age. In Proceedings of the 17th International Conference on Production Diseases in Farm Animals, pp. 193-193

Weblink: https://library.wur.nl/WebQuery/wurpubs/552410





8. **Güz, B.C.**, de Jong, I.C., Molenaar, R. and van den Brand, H., 2023. *Improving Bone Health of Broiler Chickens: Nutritional, Genotypic, Incubation and Activity Related Approaches.* In Proceedings of the 6th International Poultry Meat Congress, Antalya, Türkiye, pp. 1-4.

Weblink 1: https://beyazetkongresi.com/
Weblink 2: https://beyazetkongresi.com/

9. **Güz, B.C.,** de Jong, I.C., Molenaar, R. and van den Brand, H., 2023. *Organic Minerals in Fast- and Slower-growing Broiler Breeders' Diet on Tibia Characteristics of Their Offspring.* In Proceedings of the 6th International Poultry Meat Congress, Antalya, Türkiye, pp. 1-5.

Weblink 1: https://beyazetkongresi.com/
Weblink 2: https://beyazetkongresi.com/

10. Güz, B.C., de Jong, I.C., Molenaar, R. and van den Brand, H., 2023. *Pen Enrichment on Tibia Characteristics of Fast- and Slower-Growing Broilers.* In Proceedings of the 6th International Poultry Meat Congress, Antalya, Türkiye, pp. 1-6.

Weblink 1: https://beyazetkongresi.com/
Weblink 2: https://beyazetkongresi.com/

Articles Published in National Journals

- Güz, B.C., 2013. Possibilities of using eggshell powder in human nutrition (review). Egg Science, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye
- 2. **Güz, B.C.**, 2014. *Main problems and possible solutions in the Turkish poultry industry* (review). Poultry Breeding and Genomics, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye
- 3. **Güz, B.C.**, 2014. *Lighting physiology and modern lighting methods in laying hens and broiler chickens* (review). Project and Feasibility in Animal Production, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye
- 4. **Güz, B.C.**, 2014. *Egg Production Farm Application Project*, Project and Feasibility in Animal Production, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye
- 5. **Güz, B.C.**, 2014. *Eliminating the problems in layer and broiler chicken farms by using modern technologies* (review). Project and Feasibility in Animal Production, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye
- Güz, B.C., 2015. Comparison of egg yield and egg quality of old layers, denizli chickens and commercial layer breeder chickens under heat stress (research article). Poultry Breeding and Genomics, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye





- 7. **Güz, B.C.**, 2015. *Comparison of sperm yield and sperm quality of old layer, Denizli and commercial layer breeding roosters under heat stress* (research article). Poultry Breeding and Genomics, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye
- NATIONAL CONFERENCES AND SYMPOSIA
- Güz, B.C., 2012. The Past, Present and Future of Incubators.
 8th National Animal Science Conference, 2012, Harran University, Sanliurfa, Türkiye
- Güz, B.C., 2011. Organic Breeding and Feeding Techniques in Poultry.
 1st Organic Agriculture and Livestock Congress, 2011, Ege University, Izmir, Türkiye
- Güz, B.C., 2012. The Past, Present and Future of Incubators.
 8th National Livestock Congress, 2012, Ege University, Izmir, Türkiye
- 4. **Güz, B.C.**, 2013. *The Past, Present and Future of Incubators*. 1st National Poultry Congress, 2012, Ege University, Izmir, Türkiye
- INTERNATIONAL CONFERENCES AND SYMPOSIA
- 1. 1. International Poultry Meat Congress, 2011, Antalya, Türkiye
- 2. 2. International Poultry Meat Congress, 2013, Antalya, Türkiye
- 3. 3. International Poultry Meat Congress, 2015, Antalya, Türkiye
- 4. WIAS Science Day, 2017, Wageningen, Hollanda
- 5. 8. WPSA International Poultry Science Conference, 2017, Niğde, Türkiye
- 6. 4. International Poultry Meat Congress, 2017, Antalya, Türkiye
- 7. 15. European Poultry Conference, 2018, Dubrovnik, Croatia
- 8. WIAS Science Day, 2018, Wageningen, The Netherlands
- 9. WIAS Science Day, 2019, Lunteren, The Netherlands
- 10. 5. International Poultry Meat Congress, 2019, Antalya, Türkiye
- 11. 17. International Farm Anmals and Diseases Conference, 2019, Bern, Switzerland
- 12. WIAS Annual Conference, 2020, Lunteren, The Netherlands (Conference Chairman)
- 13. 6. International Poultry Meat Congress, 2023, Antalya, Türkiye
- VIV Türkiye 10. International Trade Congress for Poultry, 2023, İstanbul, Türkiye





PROJECTS

- Projects Responsible for and/or Involved
- Effects of In-ovo Vitamin C and E Injection in Broiler Breeder Eggs on Hatchability and Growth Performance (MSc Project Funded by The Scientific and Technological Research Council of Türkiye, 2013). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye

Weblink: https://bit.ly/3aXXdmo

2. Effects of In-ovo L-Thyroxine and Triiodothyronine Injection in Broiler Breeder Eggs on Hatchability and Growth Performance (MSc Project Funded by The Scientific and Technological Research Council of Türkiye, 2014). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye

Weblink: https://bit.ly/3eaY6dh

- Examination of Aging Physiology and Possibilities in Old Broiler Roosters (PhD Project Funded by The Scientific and Technological Research Council of Türkiye, 2014). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye Weblink: https://bit.ly/2QRa9U3
- 4. Effects of Lutein, Lycopene and Vitamin E Supplementation to Diet on Performance, Egg Quality and Oxidative Stability in Laying Hens (MSc Project, 2013). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye Weblink: https://bit.ly/2RpaWvG
- Effects of Calorie Restriction, Starch-Based Sugars and Bee Products on Aging Physiology and Selected Physiological Properties of Old Broiler Breeders (Research Project Funded by The Scientific and Technological Research Council of Türkiye, 2014). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye Weblink: https://bit.ly/3vFGBYC
- Effects of Addition of Propolis and Starch Based Sugars to the Feed of Broiler Roosters on Their Sperm Quality (Research Project Funded by The Scientific and Technological Research Council of Türkiye, 2014). Graduate Faculty of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Türkiye

Weblink: https://bit.ly/3eaKtea

7. Comparison of Reproductive Physiology of Old Layer, Denizli and Commercial Layer Breeder Chickens and Roosters Under Heat Stress (2015). Graduate Faculty of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey





8. *Healthy Bones for Broiler Chickens*, Wageningen University and Research, Wageningen, The Netherlands (PhD project, 2017-2021, funded by Wageningen Livestock Research, Dutch Ministry of Agriculture, Nature and Food Quality, Aviagen (UK), Darling Ingredients Inc., ForFarmers N.V., Hubbard, Marel Stork Poultry Processing B.V., Nepluvi and Nutreco.

DOI: https://doi.org/10.18174/553659

9. Effects of eggshell temperature pattern during incubation on primary immune organ development and broiler immune response in later life. Wageningen University and Research, Wageningen, The Netherlands

DOI: https://doi.org/10.1016/j.psj.2020.09.088

10. Provisioning of live black soldier fly larvae (Hermetia illucens) benefits broiler activity and leg health in a frequency-and dose-dependent manner. Wageningen University and Research, Wageningen, The Netherlands

DOI: https://doi.org/10.1016/j.applanim.2020.105082

11. Long-term access to live black soldier fly larvae (Hermetia illucens) stimulates activity and reduces fearfulness of broilers, without affecting health. Wageningen University and Research, Wageningen, The Netherlands

DOI: https://doi.org/10.1038/s41598-020-74514-x

12. Breeding Studies of Parental Pure Lines of Broiler Chicken Conducted in Eskişehir Transitional Zone Agricultural Research Institute

TAGEM (2022 - continues).

Transitional Zone Agricultural Research Institute, Eskişehir, Turkey

Weblink: https://bit.ly/3PPjXrp

13. *Türkiye Patented Anadolu-T Broiler Chicken Parent and Grand Parent Production Project* TAGEM (2022 - continues).

Transitional Zone Agricultural Research Institute, Eskişehir, Turkey

Weblink: https://bit.ly/3PPjXrp

14. Monitoring the Performance of Parents of Anadolu-T Line in Commercial Broiler Sector Conditions

TAGEM (2022 - continues).

Transitional Zone Agricultural Research Institute, Eskişehir, Turkey

Weblink: https://bit.ly/3PPjXrp

15. Rearing of Türkiye's National Broiler Chicken Anadolu-T and Production of Anadolu-T Parents

TAGEM (2023 – continues)

Transitional Zone Agricultural Research Institute, Eskişehir, Türkiye

Weblink: https://bit.ly/3PPjXrp





16. LED Lighting Applications During Incubation in the Production of Parents of Türkiye's National Broiler Chicken Anadolu-T

TAGEM (2023 – continues)

Transitional Zone Agricultural Research Institute, Eskişehir, Türkiye

Weblink: https://bit.ly/3PPjXrp

17. Using the "Lifetime Feed Conversion Rate" Test as a Selection Criteria in B1 Pure Line Males Used in the Production of Main Line Males of Anadolu-T Broiler Parents

TÜBİTAK (2023 – continues)

Transitional Zone Agricultural Research Institute, Eskişehir, Türkiye

Weblink: https://bit.ly/3PPjXrp

18. Early Feeding During Incubation Strategy for National Broiler Chicken Anadolu-T Broiler Breeder Development Studies

TÜBİTAK (2023 – at the application stage)

Transitional Zone Agricultural Research Institute, Eskişehir, Türkiye

Weblink: https://bit.ly/3PPjXrp

19. Development of Multi-Trait Selection Strategies for Genetic Improvement of Meat Production Efficiency in ANADOLU-T Broiler Pure Sire Line

TÜBİTAK (2023 – at the application stage)

Samsun Ondokuz Mayis University, Samsun, Türkiye

Transitional Zone Agricultural Research Institute, Eskişehir, Türkiye

Weblink: https://bit.ly/3PPjXrp

PROFESSIONAL AND NON-PROFESSIONAL TRAININGS & COURSES

- Professional Trainings & Courses (BSc)
- 1. Feeds and Animal Nutrition, Ege University, Izmir, Türkiye
- 2. Animal Breeding Principles, Ege University, Izmir, Türkiye
- 3. Animal Health, Ege University, Izmir, Türkiye
- 4. Digestive Physiology and Metabolism, Ege University, Izmir, Türkiye
- 5. Laboratory and Analysis Techniques, Ege University, Izmir, Türkiye
- 6. Animal Anatomy and Physiology, Ege University, Izmir, Türkiye
- 7. Poultry Nutrition, Ege University, Izmir, Türkiye
- 8. Reproduction and Artificial Insemination, Ege University, Izmir, Türkiye
- 9. Animal Production Machines, Ege University, Izmir, Türkiye
- 10. Biochemistry in Animal Nutrition, Ege University, İzmir, Türkiye
- 11. Project Design and Planning in Animal Breeding, Ege University, Izmir, Türkiye
- 12. Poultry Breeding, Ege University, Izmir, Türkiye
- 13. Animal Breeding and Genomics, Ege University, Izmir, Türkiye
- 14. Feed and Feed Technology, Ege University, Izmir, Türkiye
- 15. Animal Behavior, Ege University, Izmir, Türkiye
- 16. Feed Microbiology, Ege University, Izmir, Türkiye





Professional Trainings & Courses (MSc)

- 1. Incubation Techniques, Ege University, Izmir, Türkiye
- 2. Scientific Publication Techniques, Ege University, Izmir, Türkiye
- 3. Manure Management in Poultry Farm, Ege University, Izmir, Türkiye
- 4. Reproductive Biology in Poultry, Ege University, Izmir, Türkiye
- 5. Hygiene in Hencoop and Its Environment, Ege University, Izmir, Türkiye
- 6. Egg Science, Ege University, İzmir, Türkiye
- 7. Environmental Climate Control in Poultry Production, Ege University, Izmir, Türkiye
- 8. Project and Feasibility in Animal Sciences, Ege University, Izmir, Türkiye

Professional Trainings & Courses (PhD)

- 1. Animal Sciences 101, Wageningen University and Research, Wageningen, The Netherlands
- 2. Modern Poultry Breeding Techniques, University of Ghent, Ghent, Belgium
- 3. Ethics and Integrity in Science, Wageningen University and Research, Wageningen, The Netherlands
- 4. Basic Statistics, Wageningen University and Research, Wageningen, The Netherlands
- 5. Advanced Statistics & Design of Exp., Wageningen University and Research, Wageningen, The Netherlands
- 6. Bone Development in Animals, European Calcified Tissue Society, Bologna, Italy
- 7. Bone and Joint Development in Poultry, University Medical Center Hamburg, Hamburg, Germany
- 8. Welfare and Behavior in Broiler Chickens, Center for Animal Welfare and Ethics, The University of Queensland, Brisbane, Australia
- 9. Incubation Biology and Physiology, Wageningen University and Research, Wageningen, The Netherlands
- 10. Gut Health in Poultry, Wageningen University and Research, Wageningen, The Netherlands
- 11. Poultry Breeding and Genomics, Wageningen University and Research, Wageningen, The Netherlands
- 12. Literature Review & Scientific Writing, Wageningen University and Research, Wageningen, The Netherlands
- 13. Project and Time Management, Wageningen University and Research, Wageningen, The Netherlands
- 14. Communication with General Public, Wageningen University and Research, Wageningen, The Netherlands
- 15. Social Impact of Research, Wageningen University and Research, Wageningen, The Netherlands
- 16. Scientific Writing Techniques, Wageningen University and Research, Wageningen, The Netherlands
- 17. Supervising for Undergraduate and Postgraduate Students, Wageningen University, Wageningen, Netherlands

Non-Professional Trainings & Courses

- 1. Adobe Programs Certificate, 2013, Adobe Türkiye, Istanbul, Türkiye
- 2. HACCP ve ISO 22000 Certificates, 2013, Izmir, Türkiye
- 3. Akınsoft Information Technologies Certificate, 2013, Izmir, Türkiye
- 4. Brain Training, 2020, Wageningen University and Research, Wageningen, The Netherlands
- 5. Career Planning, 2020, Wageningen University and Research, Wageningen, The Netherlands
- 6. Graphic Design Course, 2022, Eskişehir Osmangazi University Continuous Education Center, Eskişehir, Türkiye