



TAGEM
R&D AND INNOVATION

TRANSITIONAL ZONE AGRICULTURAL
RESEARCH INSTITUTE / ESKİŞEHİR, TURKEY

BAHADIR CAN GÜZ, PhD

Agricultural Engineer

EDUCATION

PhD
2017-2022
Wageningen University & Research
The Netherlands
Wageningen Institute of Animal Sciences
Adaptation Physiology Group
Poultry Sciences

MSc
2013-2016
Ege University - Turkey
Natural and Applied Sciences
Department of Animal Sciences
Animal Breeding MSc Programme

BSc
2007-2012
Ege University - Turkey
Faculty of Agriculture
Agricultural Engineering
Department of Animal Sciences

Language
English
IELTS 7.0

CAREER

2022-Present
Agricultural Engineer, Doctor
Transitional Zone Agricultural Research Institute,
Eskisehir, Turkey

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 chicken 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 level courses, I wrote a thesis, "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 degree 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 "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 Turkey'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 - LinkedIn](#)



[Dr. Bahadır Can Güz - Researchgate](#)



BAHADIR CAN GÜZ, PhD

Agricultural Engineer

TAGEM
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▪ **BOOKS & THESES**

1. **Güz, B.C.**, 2012. The Past, Present and Future of Incubators (BSc thesis)
Supervisor: Prof. Dr. Özge Altan
Ege University, Faculty of Agriculture, Department of Animal Sciences, Izmir, Turkey
2. **Güz, B.C.** (Lay-out – Editor – Cover Design)
Altan. Ö., 2015.
Yumurta: oluşumu kalitesi ve biyoaktif komponentleri (Egg: formation, quality and bioactive components)
Akademic book, Ege University, Izmir, Turkey
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)
Supervisor: Prof. Dr. Özge Altan
Ege University, Natural and Applied Sciences, Department of Animal Sciences, Animal Breeding MSc Programme
Weblink1: <https://bit.ly/3vAn0sE>
Weblink2: <https://bit.ly/3gYn1CO>
4. **Güz, B.C.**, 2022. Healthy Bones for Broiler Chickens.
Academic press (PhD Dissertation), 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>



BAHADIR CAN GÜZ, PhD Agricultural Engineer

TAGEM
R&D AND INNOVATION

2. 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>
 4. **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>
 5. **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>
 6. **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.**, 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>
 8. 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>
- **International Conference Proceedings**
1. **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>



BAHADIR CAN GÜZ, PhD Agricultural Engineer

TAGEM
R&D AND INNOVATION

2. **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, 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>
 4. **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 5th International Poultry Meat Congress, Antalya, Turkey, pp. 18-18
Weblink: <https://bit.ly/3e6k6pM>
 6. **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>
 7. **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>
- **Articles Published in National Journals**
1. **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, Turkey
 2. **Güz, B.C.**, 2014. Türkiye kanatlı sektöründe temel sorunlar ve olası çözüm önerileri (review). Poultry Breeding and Genomics, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey



BAHADIR CAN GÜZ, PhD

Agricultural Engineer



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, Turkey
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, Turkey
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, Turkey
6. **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, Turkey
7. **Güz, B.C.**, 2015. Comparison of sperm quantity and quality of roosters of old layers, denizli roosters and commercial layer breeder roosters under heat stress (research article). Poultry Breeding and Genomics, Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey

▪ NATIONAL CONFERENCES AND SYMPOSIA

1. **Güz, B.C.**, 2012. The Past, Present and Future of Incubators.
8th National Animal Science Conference, 2012, Harran University, Sanliurfa, Turkey
Weblink: <https://bit.ly/3e2rTEJ>
2. **Güz, B.C.**, 2011. Organic Breeding and Feeding Techniques in Poultry.
1st Organic Agriculture and Livestock Congress, 2011, Ege University, Izmir, Turkey
3. **Güz, B.C.**, 2012. The Past, Present and Future of Incubators.
8th National Livestock Congress, 2012, Ege University, Izmir, Turkey
4. **Güz, B.C.**, 2012. The Past, Present and Future of Incubators.
1st National Poultry Congress, 2012, Ege University, Izmir, Turkey

▪ INTERNATIONAL CONFERENCES AND SYMPOSIA

1. 2nd International Poultry Meat Congress, 2013, Antalya, Turkey
2. 3rd International Poultry Meat Congress, 2015, Antalya, Turkey
3. WIAS Science Day, 2017, Wageningen, The Netherlands
4. 8th WPSA International Poultry Congress, 2017 Nigde, Turkey



BAHADIR CAN GÜZ, PhD

Agricultural Engineer



5. 4th International Poultry Meat Congress, 2017, Antalya, Turkey
6. 15th European Poultry Conference, 2018, Dubrovnik, Croatia
7. WIAS Science Day, 2018, Wageningen, The Netherlands
8. WIAS Science Day, 2019, Lunteren, The Netherlands
9. 5th International Poultry Meat Congress, 2019, Antalya, Turkey
10. 17th International Livestock and Diseases Congress, 2019, Bern, Switzerland
11. WIAS Annual Conference, 2020, Lunteren, Netherlands (Chairman)

▪ **PROJECTS**

▪ **Projects Carried Out and/or Involved**

1. 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 Turkey, 2013). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey
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 Turkey, 2014). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey
Weblink: <https://bit.ly/3eaY6dh>
3. Examination of Aging Physiology and Possibilities in Old Broiler Roosters (PhD Project Funded by The Scientific and Technological Research Council of Turkey, 2014). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey
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, Turkey
Weblink: <https://bit.ly/2RpaWvG>
5. Use of Mealworm (*Tenebrio molitor* L.) in Broiler Nutrition as an Alternative Protein Source (MSc Project, 2015). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey
Weblink: <https://bit.ly/3nGGr0h>
6. 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 Turkey, 2014). Graduate School of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey
Weblink: <https://bit.ly/3vFGBYC>



BAHADIR CAN GÜZ, PhD Agricultural Engineer

TAGEM
R&D AND INNOVATION

7. 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 Turkey, 2014). Graduate Faculty of Natural and Applied Sciences, Animal Sciences Department, Ege University, Izmir, Turkey
Weblink: <https://bit.ly/3eaKtea>
8. 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
9. 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>
10. 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>
11. 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>
12. 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>
13. Determination of growth and carcass characteristics of broiler chicken pure lines and hybrid cross breeds – TAGEM (2022).
Transitional Zone Agricultural Research Institute, Eskişehir, Turkey
Weblink: <https://bit.ly/3PPjXrp>
14. Selection and breeding applications of imported broiler chicken pure lines – TAGEM (2022).
Transitional Zone Agricultural Research Institute, Eskişehir, Turkey
Weblink: <https://bit.ly/3PPjXrp>
15. Turkey patented Anadolu-T broiler chicken parent and grand parent production project – TAGEM (2022).
Transitional Zone Agricultural Research Institute, Eskişehir, Turkey
Weblink: <https://bit.ly/3PPjXrp>



BAHADIR CAN GÜZ, PhD

Agricultural Engineer



▪ **PROFESSIONAL AND NON-PROFESSIONAL TRAININGS & COURSES**

▪ **Professional Trainings & Courses (BSc)**

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

▪ **Professional Trainings & Courses (MSc)**

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

▪ **Professional Trainings & Courses (PhD)**

1. Introduction to Animal Sciences, Wageningen University and Research, Wageningen, The Netherlands
2. Ethics and Integrity in Science, Wageningen University and Research, Wageningen, The Netherlands
3. Basic Statistics, Wageningen University and Research, Wageningen, The Netherlands
4. Advanced Statistics & Design of Exp., Wageningen University and Research, Wageningen, The Netherlands
5. Bone Development in Animals, European Calcified Tissue Society, Bologna, Italy
6. Incubation Biology and Physiology, Wageningen University and Research, Wageningen, The Netherlands
7. Gut Health in Poultry, Wageningen University and Research, Wageningen, The Netherlands
8. Poultry Breeding and Genomics, Wageningen University and Research, Wageningen, The Netherlands
9. Literature Review & Scientific Writing, Wageningen University and Research, Wageningen, The Netherlands
10. Project and Time Management, Wageningen University and Research, Wageningen, The Netherlands
11. Communication with General Public, Wageningen University and Research, Wageningen, The Netherlands
12. Social Impact of Research, Wageningen University and Research, Wageningen, The Netherlands
13. Scientific Writing Techniques, Wageningen University and Research, Wageningen, The Netherlands



▪ **Non-Professional Trainings & Courses**

1. Adobe Programs Certificate, 2013, Adobe Turkey, Istanbul, Turkey
2. HACCP ve ISO 22000 Certificates, 2013, Izmir, Turkey
3. Akinsoft Information Technologies Certificate, 2013, Izmir, Turkey
4. Brain Training, 2020, Wageningen University and Research, Wageningen, The Netherlands
5. Career Planning, 2020, Wageningen University and Research, Wageningen, The Netherlands