



TAGEM
R&D AND INNOVATION

INTERNATIONAL CENTER FOR LIVESTOCK
RESEARCH AND TRAINING / ANKARA

ÇAĞRI MELİKŞAH SAKAR, PhD Agricultural Engineer

EDUCATION

- PhD** 2015-2019 Selçuk University
Animal Breeding and Improvement
- MSc** 2007-2009 Selçuk University
Animal Breeding and Improvement
- Bachelor's Degree** 2002-2007 Selçuk University
Faculty of Agriculture
- LANGUAGE** English YÖKDİL 72,5 / YDS 62,5

CAREER

- 2016 – Continue – Agricultural of Engineers – International Center for Livestock Research and Training – ANKARA
- 2015 – 2016 – Expert – Agriculture and Rural Development Support Institution – Coordinator of Erzurum Province – ERZURUM
- 2014 – 2015 – District Director – Ardahan Province, Hanak Directorate of District Food Agriculture and Livestock – ARDAHAN
- 2009 – 2014 – Agricultural of Engineer – Ardahan Province, Hanak Directorate of District Food Agriculture and Livestock – ARDAHAN
- 2007 – 2009 – Recording Officer of Genealogist – Cattle Breeders Association of Konya Province - KONYA

ABOUT ME

I was born in 1984 in Konya. In 2007, he graduated from Selcuk University, Faculty of Agriculture. He started to work in the Ministry of Agriculture in 2009. He has been working at the Institute since 2016.

In small ruminant and cattle; He works on animal breeding, animal welfare and animal behaviour.

CONTACT

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▪ **PROJECTS**

▪ **Completed Projects**

1. Examining the Welfare of Angora Goats Using Animal and Resource Based Indicators - **Project Leader** (2020).
2. Determination of Biometric Index Values in Angora Goats Raised by Public - **Assistant Researcher** (2023).
3. Determination of Raw Lanolin Amount of Akkaraman Sheep in Different Environmental Conditions - **Assistant Researcher** (2021-2023).
4. Investigation of Pregnancy-Related miRNAs in Cow Cervico-Vaginal Mucus (CVM) – **Assistant Researcher** (2021-2023).
5. Development of Animal Tracking System (HTS) - **Assistant Researcher** (2020-2023).
6. Protection of Anatolian Black Cattle in Institute Conditions - **Assistant Researcher** (2017-2023).
7. Investigation of Akkaraman Sheep Farms in Different Provinces in terms of Animal Welfare with ANI Method within the Scope of Ovine Breeding in the Hands of Public - **Project Leader** (2022).
8. Determination of Relationships Between Milk Yield and Quality Traits and Some Behavioural Parameters in Holstein and Simmental Cows - **Project Leader** (2020 - 2021).
9. Investigation of Animal Welfare of Anatolian Black Cattle Farms within the Project On-site Protection of Domestic Animal Gene Resources - **Project Leader** (2020).
10. Determination of Some Physiological and Yield Parameters of Anatolian Black and Holstein Cows in Meteorological Changes - **Project Leader** (2019-2020).
11. The Socio-Economic Effect on Livestock Enterprises of Supporting On-Site Conservation of Animal Genetic Resources Applied for Anatolian Black Cattle - **Assistant Researcher** (2018-2019).
12. Determination of The Relationship Between Birth and 12 Months of Age in Anatolian Black Cattle Growth and Development Properties and Myostatin, GHR and Pit-1 Genes by The PCR-RFLP Method - **Project Leader** - (2018-2019).
13. Determination of Some Morphological and Yield Characteristics of Anatolian Black Cattle under the Conditions of Farmer and Institute - **Assistant Researcher** (2015-2018).

▪ **Continually Projects**

1. The National Project of Animal Breeding in Public - Çankırı Province Akkaraman Sheep Breed 1 Sub-Project - **Project Leader** (2017-continue)
2. The National Project of Animal Breeding in Public - Çankırı Province Akkaraman Sheep Breed 2 Sub-Project - **Project Leader** (2017-continue)
3. Protection of Anatolian Black Cattle in Public - **Assistant Researcher** (2016-continue)



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▪ PROJECTS

▪ **Ongoing Projects**

1. Evaluation of Passive Immune Transfer Process in Anatolian Black Calves and Comparison with Culture Breed Calves - **Project Leader** (2024- continue).
2. Comparison of Metabolic Profiles of Public-Raised Anatolian Black Cattle in Different Periods - **Assistant Researcher (2024-continue)**.
3. Genome-Wide Association Studies for Traits Associated with Milk Composition and Mastitis Resistance in Anatolian Black Cattle - **Assistant Researcher** (2024-continue).
4. Investigation of Akkaraman and Lalahan Type Lambs and Angora Goat Kids Raised under Institute Conditions in Terms of Animal Welfare - **Project Leader** (2023- continue).
5. Monitoring the Health Status of Dairy Cows and Calves in the Transition Period with a Three-Axis Accelerometer-Based Sensor Placed on the Ear, Development of an Automatic Health Monitoring System and Early Warning Model - **Assistant Researcher** (2023-continue), (TUBİTAK-1005).
6. Project of Genomic Selection in Simmental Cattle - **Assistant Researcher** (2022-continue).
7. Transfer of Myostatin Mutation to Anatolian Black Cattle Breed by Marker Mediated Introgression - **Assistant Researcher** (2022-continue).
8. Determination of the Effect of Temperature and Humidity Index Due to Climate Change on Milk and Fertility in Some F1 Hybrid Cows – **Assistant Researcher** (2021-continue).
9. Ruminal Bacterial Structure and Its Effect on Real-Time Methane Production in Cattle Fed with Different Forage Ratios - **Assistant Researcher** (2023-continue).
10. Investigation of Follicular Dynamics of Sexual Cycle in Anatolian Black Breed Cattle and Determination of Ovum Pick-Up Success with Different Hormonal Protocols - **Assistant Researcher** (2021-continue).
11. Development of Smart Measurement Platform Prototype for Small Cattle Breeding - **Assistant Researcher** (2020-continue).



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▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **SCI/SCI-E Articles Published in the Scope of Journals**

1. **Sakar, Ç.M.**, 2024. The effect of climate index on growth values from birth to breeding in Akkaraman sheep. *Tropical Animal Health and Production*, 56,60. <https://doi.org/10.1007/s11250-024-03901-7>
2. **Sakar, Ç.M.**, Koncagül, S., Ünal, İ., 2023. Identification of best growth curve model for Anatolian Black Cattle. *Slovenian Veterinary Research*, 60(4), 195-203. <https://orcid.org/0000-0002-6692-763X>
3. **Sakar, Ç.M.**, Ünal, İ., Ergiden, Y., Zülkadir, U., 2023. Comparison of some biometric index values in Anatolian Black Cattle calves raised in different locations. *Large Animal Review*, 29(3), 119-127. <https://www.largeanimalreview.com/index.php/lar/article/view/626/229>
4. **Sakar, Ç.M.**, Ünal, İ., Yılmaz, M.A., Çökülgen, T., Yıldırım, Z.T., 2022. Comparison of some herd life and reproductive parameters of Anatolian Black and culture breed cows. *Large Animal Review*, 28(6), 299-305. <https://www.largeanimalreview.com/index.php/lar/article/view/591>
5. **Sakar, Ç.M.**, Ünal, İ., Okuroğlu, A., Coşkun, M.İ., Keçici, P.D., Koçak, Ö., 2022. Using ANI 35/L Approach to evaluate the welfare status of locally adapted Anatolian Black Cattle. *Tropical Animal Health and Production*, 54(5), 1-6. <https://doi.org/10.1007/s11250-022-03291-8>
6. **Sakar, Ç. M.**, Zülkadir, U., 2022. Determination of some growth and development characteristics between birth and twelve months age in Yerli Kara Cattle. *Journal of Agricultural Sciences*, 28 (1), 1-7. <https://doi.org/10.15832/ankutbd.720072>
7. **Sakar, Ç. M.**, Zülkadir, U., 2022. Determination of the relationship between Anatolian Black Cattle growth properties and myostatin, GHR and Pit-1 gene. *Animal Biotechnology*, 33 (3), 536-545. <https://doi.org/10.1080/10495398.2021.1884566>
8. Aytakin, İ., Bayraktar, M., **Sakar, Ç.M.**, Ünal, İ., 2020. Association between MYLK4 gene polymorphism and growth traits at different age stages in Anatolian Black Cattle. *Animal Biotechnology*, 31(6), 555-560. <https://doi.org/10.1080/10495398.2020.1823402>



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▪ PUBLICATIONS

▪ INTERNATIONAL ARTICLES AND PAPERS

▪ Articles Published in Other Journals

1. **Sakar, Ç.M.**, Ergiden, Y., Artut, B., 2023. Growth performance from birth to 24 months of age in culture breed calves raised at Lalahan Livestock Research Institute. *Journal of Bahri Dagdas Animal Research*, 12(1), 28-37. <https://dergipark.org.tr/en/download/article-file/2874994>
2. **Sakar, Ç. M.**, 2022. The Effects of temperature-humidity index values on some behaviours in male Anatolian Black Cattle. *International Journal of Agriculture and Wildlife Science*, 8(2), 349-357. <https://doi.org/10.24180/ijaws.1035429>
3. Ünal, G., Ünal, İ., **Sakar, Ç.M.**, 2022. Some yield and structural characteristics of the sheep farming included in Akkaraman breeding subprojects in Çankırı province. *Ziraat Mühendisliği*, 375, 47-57. <https://doi.org/10.33724/zm.1094632>
4. **Sakar, Ç. M.**, Ünal, İ., 2021. Determination of growth characteristics of Akkaraman lambs raised in Çankırı Province. *Journal of Animal Production*, 62(1), 61-66. <https://doi.org/10.29185/hayuretim.793691>
5. **Sakar, Ç.M.**, Ünal, İ., Okuroğlu, A., Coşkun M.İ., Zülkadir, U., 2020. Prediction of live weight from chest girth from birth to 12 months of age in Yerli Kara Cattle. *Black Sea Journal of Agriculture*, 3 (3), 200-204. <https://dergipark.org.tr/en/pub/bsagriculture/issue/53806/723716>
6. **Sakar, Ç.M.**, Erişek, A., 2019. Developments of Akkaraman lambs in Çankırı region from birth to 120 days. *Black Sea J of Agriculture*, 2 (1), 16-20. <https://dergipark.org.tr/en/pub/bsagriculture/issue/42011/468631>
7. Ünal, İ., Tuncer, H.İ, **Sakar, Ç.M.**, Ünay, E., 2019. The Effect of Maternal Age on Some Body Measurements in Anatolian Black Calves. *Black Sea Journal of Agriculture*, 2 (1), 47-50. <https://dergipark.org.tr/en/pub/bsagriculture/issue/42011/469503>
8. **Sakar, Ç.M.**, Zülkadir, U., 2018. Relations between birth weight and some body measurements in Anatolian Black cattle calf grown in breeding conditions. *Selcuk Journal of Agriculture and Food Sciences*, 32 (3), 469-474. <https://doi.org/10.15316/SJAFS.2018.125>



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▪ PUBLICATIONS

▪ INTERNATIONAL PAPERS, SEMINARS, ETC.

▪ Oral Presentations:

1. **Çağrı Melikşah SAKAR**, Seyrani KONCAGÜL, Burak ARTUT, Adil Akın AYDIN, İlker ÜNAL, Arzu ÖZDEMİR, Engin ÜNAY. Examination of Some Farming in Akkaraman Sheep Farms. *3rd International Livestock Science Congress*, 14-15 November 2023, online. (abstract).
2. **Çağrı Melikşah SAKAR**. Investigation of Sheep Welfare Models Widely Used in The World. *VII. International Congress on Domestic Animal Breeding, Genetics and Husbandry (ICABGEH-23)*, 18-20 September 2023, Krakow-Polonya. (full text).
3. **Çağrı Melikşah SAKAR**. Calf Shelter Models and Their Relationship With Welfare. *VI. International Congress on Domestic Animal Breeding Genetics and Husbandry (ICABGEH-22)*, 03-05 October 2022, Samsun. (full text).
4. Gökçe ÜNAL, İlker ÜNAL, **Çağrı Melikşah SAKAR**. Some Yield and Structural Characteristics of the Sheep Entered Included in Akkaraman Breeding Subprojects in Çankırı Province. *3. Uluslararası ve 12. Ulusal Zootekni Bilim Kongresi*, 27-28 November 2021, online. (abstract).
5. Ahmet AKÇAY, Aylın DEMİRAY, Bengi ÇINAR KUL, **Çağrı Melikşah SAKAR**, Yasin ERGİDEN. Cervico-Vaginal Mucus (CVM) Sampling from Cattle and Nucleic Acid Isolation Optimization and Standardization from Cvm. *2nd International Livestock Studies Congress*, 29-30 October 2021, Antalya. (abstract).
6. **Çağrı Melikşah SAKAR**. Determination of Some Behaviour Characteristics of Male Anatolian Black Cattle. *International Congress on Domestic Animal Breeding, Genetics and Husbandry (ICABGEH-2021)*, 27-30 September 2021, online. (abstract).
7. **Çağrı Melikşah SAKAR**. Behavioural and Physiological Determination of Temperature Stress in Cattle. *International Congress on Domestic Animal Breeding, Genetics and Husbandry (ICABGEH-2021)*, 27-30 September 2021, online. (full text).
8. **Çağrı Melikşah SAKAR**. Record Keeping in Livestock. *3rd International Conference on Food, Agriculture and Veterinary*, 19-20 June 2021, online. (full text).
9. **Çağrı Melikşah SAKAR**, İlker ÜNAL, Engin ÜNAY, Pinar ÖZDEMİR, Yasin ERGİDEN, Nurgül ERDAL, Solmaz ÖZKAN, Uğur ZÜLKADİR. The Comparison of Some Behaviour Characteristics in Anatolian Black and Holstein Friesian Cows. *2nd International Çukurova Agriculture and Veterinary Congress*, 04-05 January 2021, online. (abstract).
10. Gökçe ÜNAL, İlker ÜNAL, **Çağrı Melikşah SAKAR**, Engin ÜNAY, Umut GÜL, Tijen ÖZÜDOĞRU, Mehmet KIZILASLAN. The Socioeconomic Effect of Supports Related to in Situ Conservation of Animal Genetic Resources: The Case of Anatolian Black Cattle. *World Conference on Sustainable Life Sciences (WOCOLS)*, 08-09 December 2020, online. (abstract).
11. **Çağrı Melikşah SAKAR**, İlker ÜNAL. Determination of Growth Curve of Akkaraman Lambs Raised in Çankırı Region from Birth to 18 Months of Age. *International Congress on Domestic Animal Breeding. Genetics and Husbandry (ICABGEH-2020)*, 12-14 August 2020, online. (abstract).
12. İlker ÜNAL, **Çağrı Melikşah SAKAR**. Determination of Growth Curve and Effects of Some Factors on Live Weight and Chest Girth Between Birth and 24 Months of Age. *International Congress on Domestic Animal Breeding. Genetics and Husbandry (ICABGEH-2020)*, 12-14 August 2020, online. (abstract).
13. **Çağrı Melikşah SAKAR**, Uğur ZÜLKADİR. Relations Between Birth Weight and Some Body Measurements in Anatolian Black Cattle Calf Grown in Breeding Conditions. *10. International Animal Science Conference*, 25-27 October 2018, Antalya, Türkiye. (abstract).



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PUBLICATIONS

Poster Presentations:

1. Yasin ERGİDEN, **Çağrı Melikşah SAKAR**, Nurgül ERDAL, Yusuf ZENGİN, Adil Akın AYDIN, Monica BATTINI. *3rd International Livestock Studies Congress*, 14-15 November 2023, online. (abstract).
2. **Çağrı Melikşah SAKAR**, İlker ÜNAL, Sedat BEHREM. Live Weights of the First Breeding Period of Akkaraman Sheep Breed in Çankırı Province. *2nd International Livestock Studies Congress*, 29-30 October 2021, Antalya. (abstract).
3. Yasin ERGİDEN İlker ÜNAL, **Çağrı Melikşah SAKAR**. Some Reproductive Production Characteristics of Holstein, Brown-Swiss and Simmental Cattle Breed Grown at Lalahan Center for Livestock Research and Training. *2nd International Livestock Studies Congress*, 29-30 October 2021, Antalya. (abstract).
4. Ahmet AKÇAY, **Çağrı Melikşah SAKAR**, İlker ÜNAL, Yasin ERGİDEN, Özkan ASLAN, Burak ARTUT. Cervico-Vaginal Mucus as a Biomarker. *2nd International Livestock Studies Congress*, 29-30 October 2021, Antalya. (abstract).
5. **Çağrı Melikşah SAKAR**. Akkaraman Koyunlarda Ana Doğum Ağırlığı ve Sütten Kesim Ağırlığı ile Yavru Doğum Ağırlığı ve Sütten Kesim Ağırlığı Arasında İlişki. *1st International Livestock Science Congress*, 31 October – 3 November 2019, Antalya. (full text).
6. Gökçe ÜNAL, İlker ÜNAL, **Çağrı Melikşah SAKAR**. The Effect of Import Policy on Cattle Production and Prices in Turkey. *1st International Livestock Science Congress*, 31 October – 3 November 2019, Antalya. (abstract).
7. Solmaz ÖZKAN, **Çağrı Melikşah SAKAR**, Yasin ERGİDEN. Neonatal Calf Diarrhea and Prevention Methods. *1st International Livestock Science Congress*, 31 October – 3 November 2019, Antalya. (abstract).
8. **Çağrı Melikşah SAKAR**, Abdulkadir ERİŞEK. Development of Akkaraman Lambs Grown in Cankırı Region from Birth to 120 Days. *International Congress on Domestic Animal Breeding. Genetics and Husbandry (ICABGEH-2018)*, 26-28 September 2018, Antalya. (abstract).
9. İlker ÜNAL, Hikmet İlknur TUNCER, **Çağrı Melikşah SAKAR**, Engin ÜNAY. The Effect of Maternal Age on Some Body Measurements in Anatolian Black Calves. *International Congress on Domestic Animal Breeding, Genetics and Husbandry (ICABGEH-2018)*, 26-28 September 2018, Antalya. (abstract).



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▪ **PUBLICATIONS**

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

▪ **Oral Presentation:**

1. **Çağrı Melikşah SAKAR**, Yasin ERGİDEN, Nurgül ERDAL, Yusuf ZENGİN, Adil Akın AYDIN, Monica BATTINI. Investigating the Welfare of Angora Goats Using Animal and Resource Based Indicators. 13. National Animal Science Congress, 26-28 October 2023, Ankara. (abstract).
2. Nurgül ERDAL, **Çağrı Melikşah SAKAR**, Yasin ERGİDEN, Yusuf ZENGİN, Fatmagül MIZRAK, Abdulkadir ERİŞEK, Gürsel DELLAL. Description of Some Morphological Characteristics of Angora Goats Raised by Public. 13. National Animal Science Congress, 26-28 October 2023, Ankara. (abstract).
3. Mesut YILDIRIR, Anıl KASAKOLU, Fatma Gül MIZRAK, Yusuf ZENGİN, Engin ÜNAY, Onur YİĞİT, Mehmet Ali YILMAZ, Ramazan SEVGİ, **Çağrı Melikşah SAKAR**, Ecem HATİPOĞLU GÜRSOY, Aslıhan TURHAN, Gülşah YARAN, Arzu ÖZDEMİR, Seyrani KONCAGÜL. Genome-Wide Association Studies on Milk Yield in Turkish Simmental Cattle. 13. National Animal Science Congress, 26-28 October 2023, Ankara. (abstract).
4. **Çağrı Melikşah SAKAR**, Uğur ZÜLKADİR. Phenotypic and Genetic Parameter Estimates of Birth Weight of Brown Cattle in Tigem Konuklar Agricultural Enterprise. VII. National Animal Science Congress, 14-16 September 2011, Adana. (Made from Master's thesis). (full text).

▪ **OTHER PUBLICATIONS**

▪ **Articles Published in Non-Refereed Journals**

1. İlker ÜNAL, Gökce ÜNAL ve **Çağrı Melikşah SAKAR**. Anatolian Black Cattle Public Protection Project and its Socio-Economic Effects. General Directorate of Agricultural Research and Policies (TAGEM) e-bulletin, 2020 (8), 14-15.

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

1. **Çağrı Melikşah SAKAR**, Uğur ZÜLKADİR. Determination of The Relationship Between Myostatin, GHR and Pit-1 Genes with Growth and Development Characteristics among Birth and Twelve Month of Age by PCR-RFLP Method in The Anatolian Black Cattle, 2017-2019. Selçuk University / Institute of Science/ Zootechnical Department – Doktoral Thesis.
2. **Çağrı Melikşah SAKAR**, Uğur ZÜLKADİR. The Estimation of Phenotypic and Genetic Parameters for Birth Weight of Brown Swiss Cattle Reared in Tigem Konuklar State, 2009. Selçuk University / Institute of Science/ Zootechnical Department – Master Thesis.

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

- 1.