



**TAGEM**  
R&D AND INNOVATION

International Center For Livestock Research and  
Training/ANKARA



## Arzu EROL TUNÇ, PhD Agricultural Engineer

### EDUCATION

- **Assoc. prof**
- **PhD** Selçuk University, Agricultural Faculty, Zootechni Dep., Feeds and Animal Nutrition /2017
- **MSc** Selçuk University, Agricultural Faculty, Zootechni Dep., Feeds and Animal Nutrition /2011
- **Bachelor's Degree** Selçuk University, Agricultural Faculty, Zootechni Dep., Feeds and Animal Nutrition

**LANGUAGE** İngilizce YÖKDİL 70

### CAREER

- 2011-... International Center for Livestock Research and Training

### ABOUT ME

I was born in 1986 in Merzifon. I graduated from the Department of Animal Science of the Faculty of Agriculture of Selçuk University in 2008 and was entitled to receive the title of Agricultural Engineer. I completed my Ph. D. studies at Selçuk University Institute of Science and Animal Science, Department of Animal Nutrition, Department of Animal Nutrition in 2017.

He started to work as a researcher at the International Center For Livestock Research and Training in 2011 and still continues to work as the Head of the Department of Feeds and Animal Nutrition in the same institution.

### CONTACT



International Center For Livestock Research and Training Neighbourhood of Lalahan S. Sırrı İçöz Road Mamak/ANKARA



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## Agricultural Engineer



### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Relationship between in situ and in vitro protein degradability in rumen of full fat soybean, soybean meal and extruded soybean
2. Relationships Between in situ and in vitro Rumen Protein Degradability of Canola Meal and Corn DDGS
3. Effect of pine bark and Yucca Schidigera extract on in vitro digestibility of nutrients and rumen essential fatty acids, biological blood parameters and antioxidant capacity.
4. Investigation of the Change Between the Nutrient Content of Some Pastures Grazing Herds and Some Biochemical Blood Parameters in Herds within the Scope of the Small Ruminant Breeding National Project in the Hands of the People.
5. The Effect of Pomegranate Pomace Silage on Performance And Some Biochemical Blood Parameters In Lambs.
6. Determination of Some Metabolism Values in Angora Goats.
7. Comparison of In Vivo and In Vitro Energy and Protein Values in Milk Mix Feed.
8. Investigation of Nitrogen Activity in Silage Corn with Fertigation Method in Ankara Conditions
9. Determination of Effects of Wheat Species Containing Different Starch Structure on Subacute Ruminal Acidosis in Cattle.

#### ▪ **Ongoing Projects**

1. Determination of the Effect of Grass Type Feed Rapeseed (Lenox) on Silodability Properties, Roughage Value and Milk Yield.
2. Determination of Amino Acid Content and Amounts in Some Feed Used as Protein Sources
3. The Effect of Feeding with Semi-Intensive Model on Some Yield and Biochemical Parameters According to Nutrient Requirements in Different Physiological Periods in Hair Goats.
4. Comparison of in Vitro and in Situ Methane Emissions of Some Feed Commonly Used in Ruminant Animals.
5. A Pilot Application in Çorum Province for the Detailed Description of Daily Feed Consumption, Methane Emissions and Rangeland Environment of Akkaraman Sheep Feeding in the Rangeland.
6. Investigation of the Uses of Guar Bean Hay and Silage as an Alternative Forage Source in Ruminants.
7. Effects of Barley-Vetch Dried Grass and Barley-Vetch Silage on Body Weight in Lalahan Sheep and Birth Weight in Lambs and In Vitro-In Situ Digestibility.
8. TMR Pilot Implementation Study in Dairy Cattle Farms in Amasya Region.
9. Determination of Feed Value of Waste Mushroom Compost and Its Effect on Fattening Performance of Male Lambs.
10. Investigation of Valuable Substances Recovery from Olive Black Water and Olive Pomace and Their Evaluation in the Food Sector by Supercritical CO<sub>2</sub> Extraction.
11. Investigation of the Use of Dried Yeast Feed Residues (Ecomass) in Animal Nutrition.

## ▪ **PUBLICATIONS**

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

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

1. Tunç, A. E., & Cufadar, Y. (2015). Effect of calcium sources and particle size on performance and eggshell quality in laying hens. *Turkish Journal of Agriculture-Food Science and Technology*, 3(4), 205-209.
2. Tunç A. E, Cufadar Y. ve Yaman S., 2017, Estimation of Relationship Between In Situ and In Vitro Rumen Protein Degradability of Extruded Full Fat Soybean. *Turkish Journal of Agriculture - Food Science and Technology*, 5(10): 1237-1242, 2017.
3. Demir Z. , Keçeci M ve Erol Tunç A. (2020): Effects of nitrogen fertigation on yield, quality components, water use efficiency and nitrogen use efficiency of silage maize (ZeaMays L.) as the second crop, *Journal of Plant Nutrition*, DOI:10.1080/01904167.2020.1822396.

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

1. **Erol, A.** and Cufadar, Y. 2012. Effect Of Different Calcium Sources Addition To Diets On Performance And Egg Shell Quality In Layer Hens International Conference Of Ecosystems (Ice 2012) Tirana, Albania, June 1-6, 2012 Abstract book, pp: 96.
2. **Erol Tunç A.**,2014, Use of pomegranate pomace and pomegranate peel in ruminant feeding as an alternative feed source, Uluslararası Katılımlı Küçükbaş Hayvancılık Kongresi, 16-18 Ekim 2014, Konya, Türkiye, S: 182-183.
3. Yaman S., **Erol Tunç A.**, Ünay E. ve Yıldırım Şenyar G., 2016, In Situ Degradability of Canola Meals Imported by Feed Plants. VIIth International Symposium Feed Technology. Novi Sad 25-27 October. (Abstract).
4. Yıldırım Şenyar, G., Ünay, E., **Erol Tunç, A.**, Erişek, A., Özdemir, P., Semen, Z. 2018. Determination of Some Metabolism Values in Akkaraman Sheep in the Beginning Period of Grazing II. International Animal Nutrition Congress 1-4 Kasım 2018, Adalya Elite Lara – Antalya (poster).
5. **Erol Tunç A.** , Cufadar Y. ve Yaman S., 2019, Relationship Between In Situ And In Vitro Rumen Protein Degradability Of Full Fat Soybean And Soybean Meal, 1 st International Livestock Science Congress 31 Oct - 3 Nov 2019 Antalya / TURKEY.
6. Yıldırım Şenyar, G., Ünay, E., **Erol Tunç, A.**, Semen, Z., Erişek, A., Özdemir, P. 2019, Evaluation of Plant Nutrient Content in Terms of Animal Nutrition According to Vegetation Periods of Çorum Province Pastures, I.International Livestock Science Congress, 31.10- 02.11.2019, Antalya/ Turkey (poster).
7. Özdemir, P., Ünay, E., Erişek, A., **Erol Tunç, A.**, Yıldırım Şenyar, G., Maraş, H., Çökülgen, T., Basmacıoğlu-Malayoğlu, H., 2019, Ensability Characteristics and Silage Quality of Forage Turnips (Lenox, Brassica rapa L.). I.International Livestock Science Congress, 31.10- 02.11.2019, Antalya/ Turkey (poster).
8. Erol Tunç A., Yaman Fırıncıoğlu S., Ünay E., Erişek A., Özdemir P., Yıldırım Şenyar G., Kılıç B., Coşkun M. İ., Şenyüz H. H., Fermentation Characteristics of Pomegranate Pomace Silage and Effect on Performance in Lambs, Conference: 2. International Livestock Studies Congress at:Turkey.
9. Şenyüz H.H., Ünay E., Erol Tunç A., Coşkun M.İ., Arküse C. Ç., Şahin O., Kaygusuz E.,2021, TMR Pilot Study in Dairy Farms in Amasya Region: I - Determination of Ensiled TMR StabilityDecember 2021Conference: 2. International Livestock Studies CongressAt: Turkey.
10. Şenyüz H.H., Ünay E., Erol Tunç A., Yıldırım Ç., Erdal N., Coşkun M. İ. ve Maraş H., 2021,Effect of barley-vetch hay and silage on ewes live weight , lamb birth weight in Lalahan (KivircikxAKkaramanB1) Sheep. October 2021Conference: 6. International Congress on Advances in Veterinary Sciences and TechnicsAt: Sarajevo-Bosnia.



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### ▪ NATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in National Journals

1. Erol, A., & Cufadar, Y. (2012). Effect of Calcium Sources Used in Diets for Laying Hens on Egg Shell Quality. *Tavukçuluk Araştırma Dergisi*, 9(3), 1-5.
2. **Tunç A. E.**, Cufadar Y., 2019, Use of Guar Meal in the Feeding of Ruminant Animals, *Lalahan Hay. Araşt. Enst. Derg.* 2019, 59 (2) 79-86.
3. Ünay, E., Kayaçetin, Ç., Özdemir, P., **Erol Tunç, A.**, Yıldırım Şenyer, G., Erişek, A. 2019. Evaluation of Cold Press Mustard Cake Obtained from Mustard Grown in Different Location of Turkey in Fall and Spring Seasons for Ruminant Nutrition, *Lalahan Hay. Araşt. Enst. Derg.* 59 (1) 14-18.

#### ▪ National Papers, Seminars, etc.

1. **Erol A.**, Cufadar Y., 2010, The effect of calcium sources used in rations of laying hens on egg shell quality, *Poultry Congress*, 7-9 Ekim, Kayseri.
2. **Erol Tunç A.** ve Cufadar Y., 2016, Evaluation of Camelina Meal in Ruminant Rations1. *Hayvan Besleme Bilim Kongresi* 28 Eylül-1 Ekim 2016 Antalya/Türkiye, Poster

### ▪ OTHER PUBLICATIONS

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

1. Ph. D. Thesis: Relationship Between In Situ And In Vitro Rumen Protein Degradability Of Full Fat Soybean, Soybean Meal And Extruded Soybean, November 2017, Advisor: Prof. Dr. Yusuf CUFADAR
2. Master Thesis: Effect Of Different Calcium Sources Addition To Diets On Performance And Egg Shell Quality In Layer Hens, July 2011, Advisor: Prof. Dr. Yusuf CUFADAR.



## Arzu EROL TUNÇ, PhD Agricultural Engineer



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

1. Training: Laboratory Accreditation/2012 Uzman Laboratuvar Akreditasyon Danışmanlık Ltd. Şti.
2. Training: Method Validation/2012 Uzman Laboratuvar Akreditasyon Danışmanlık Ltd. Şti.
3. Training: Volume Calibration/2012 (Uzman Laboratuvar Akreditasyon Danışmanlık Ltd. Şti.)
4. Training: Experimental Animals Use Certificate/2012 (International Center For Livestock Research and Training)
5. Training: Nutrition of Dairy Cattle and Organic Livestock/2012 (International Center For Livestock Research and Training )
6. Project Cycle management and Funding Sources/2012 (International Agricultural Training Center)