

## **CURRICULUM VITAE**

**Name:** Mehmet Basalan

**Degree awarded:** D.V.M. in Veterinary Faculty (Ankara University, Turkey, 1992);

M.Sc. in Animal Science (Oklahoma State University, OK, USA, 1996);

Ph.D. in Animal Nutrition (Oklahoma State University, OK, USA, 2000)

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**Present position:** Professor

**Member of professional societies:** Turkish Animal Nutrition Science Society,  
Turkish Poultry Veterinarians Society

**Total published papers:** 26

**Conference papers with published abstracts:** 28

**Papers in preparation:** 2

**Language proficiency:** English and Turkish very good

**Research interests:**

- 1) Ruminant nutrition with the emphasis of fiber digestion in rumen and rumen environment.
- 2) Poultry nutrition with the emphasis of trace mineral supplementation on immunity.
- 3) Alternative feedstuffs especially poultry litter and winery by-products on ruminant nutrition.
- 4) Alternate feeding methods to antibiotics on elimination of food-borne pathogens during slaughtering.

**Teaching interests:**

Teaching both graduate and undergraduate level courses including Ruminant Nutrition, Nutritionally related diseases in ruminants, ration formularions, Carbohydrate nutrition courses to Phd and MSc pursuing students and Sophomore and Junior levels of Feeds and Feeding course and Animal Nutrition courses and Internship to Veterinary Medicine students.

**Appointments:**

- 1) Awarded for the fellowship for graduate study abroad by Higher Education Council of Turkey (from July 1993 to December 1999)
- 2) Research Assistant, Oklahoma State University, Department of Animal science, Stillwater, Oklahoma, USA (from January 2000 to August 2000)
- 3) Research Assistant, Kirikkale University, Veterinary Faculty, Turkey (from September 2000 to November 2000)
- 4) Project Officer, Army Veterinary Command, Turkey (from December 2000 to March 2002)
- 5) Research Assistant, Kirikkale University, Veterinary Faculty, Turkey (from April 2002 to January 2003)
- 6) Assistant Professor, Kirikkale University, Veterinary Faculty, Turkey (from February 2003 to June 2009)
- 7) Associate Professor, Kirikkale University, Veterinary Faculty, Turkey (from June 2009 to August 2014)
- 8) Professor, Kirikkale University, Veterinary Faculty, Turkey (from August 2014 to present)
- 9) Vice Dean, Kirikkale University, Veterinary Faculty, Turkey (from October 2003 to May 2007)
- 10) Graduate Dean, The Institute of Health Sciences, Kirikkale University (from February 2010 to Present)
- 11) Acting Dean, Kirikkale University, Veterinary Faculty, Turkey (from August 2016 to January 2017)

12) Dean, Kirikkale University, Veterinary Faculty, Turkey  
(from January 2017 to present)

**Publications:**

- 1) Corn maturation: changes in grain and cob. **M. Basalan**, R. Bayhan, D. S. Secrist, J. Hill, F. N. Owens, M. Witt and K. Kreikemeier (1995). Okla. Agr. Exp. Sta. Res. Rep. P-943: 92-98. (Indexed in AGRICOLA)
- 2) Effects of trace mineral supplements on performance of feedlot steers. W. J. Hill, D. S. Secrist, F. N. Owens, C. A. Strasia, D. R. Gill, **M. Basalan** and A. B. Johnson (1996). Okla. Agr. Exp. Sta. Res. Rep. P-951: 153-163. (Indexed in AGRICOLA)
- 3) Influence of NDF source and ruminal pH on in situ fiber disappearance. **M. Basalan**, E. Polat, and F.N.Owens (2002). Okla. Agr. Exp. Sta. Res. Rep. P-993: AN-17 (Indexed in AGRICOLA)
- 4) Prevalence of mould growth and Aflatoxin M<sub>1</sub> in Turkish Kashar and white cheese produced in Western region of Turkey. S. Ege Hismiogullari, **Mehmet Basalan**, and A. Adil Hismiogullari (2003). *Milchwissenschaft, (Milk Science International)*: 58 (7/8); 386-388. (Indexed in SCI)
- 5) The effects of supplemental niacin in laying hen diet on performance and egg quality characteristics T. Gungor, A.A. Yigit, **M. Basalan**. (2003) *Revue De Medecine Veterinaire*, 154 (5); 371-374 (Indexed in SCI)
- 6) Influence of increasing level of groundnut meal supplementation on performance of growing quails. I. Bayram, Z. Akinci, **M. Basalan**. (2004) *Indian Veterinary Journal*, 81 (4); 463-464 (Indexed in SCI)
- 7) Fungi and Aflatoxin B<sub>1</sub> in Horse and Dog Feeds in Western Turkey **Mehmet Basalan**, S. Ege Hismiogullari, A. Adil Hismiogullari, and Ayhan Filazi (2004). *Revue De Medecine Veterinaire* 156 (5); 248-252 (Indexed in SCI)
- 8) Polioencephalomalacia in cattle: A consequence of prolonged feeding barley malt sprouts, Kul, O., S. Karahan, **M. Basalan**, and N. Kabakçı. *Journal of Veterinary Medicine Series A*, **53 (3)**, 123-128 (2006).
- 9) Effects of Feeding Mycotoxin Binder (HSCAS) on Gastrointestinal Environment and Metabolism in Broilers at Later Ages, **Basalan, M.**, T. Gungor, I. Aydoğan, S. E. Hismiogullari, S. Erat and E. Erdem. *Archiva Zootechnica*, **9**, 5-9 (2006).
- 10) Mannan Oligosaccharides (MOS) from *Saccharomyces cerevisia* in Broilers: Effects on Performance and Blood Biochemistry, Yalçinkaya, I., T. Gungor, **M.**

**Basalan, E. Erdem.** *Turkish Journal of Veterinary and Animal Sciences*, **32 (1)**, 43-48 (2008).

**11)** Effects of Caproic and Caprylic Acids on Microbial Growth and Cytotoxicity, Hismiogullari, S. E., E. Elyurek, A. A. Hismiogullari, F. Sahin, **M. Basalan**, S. Yenice. *Journal of Animal and Veterinary Advances*, **7 (6)**, 731-735 (2008).

**12)** Effects of Mannan oligosaccharide (MOS) from *Saccharomyces Cerevisiae* on Some Internal, Gastrointestinal and Carcass Parameters in Broilers, Yalçinkaya, I, T. Gungor, **M. Basalan.**, *Journal of Animal and Veterinary Advances*, **7 (7)**, 789-792 (2008).

**13)** The effect of organic selenium and vitamin E on performance, internal organ weight and blood parameters in broiler rations. Yalçinkaya, İ., Gungor, T., **Basalan, M.**, Çınar, M., Saçaklı, P. *Kafkas Vet. Fak. Derg.*, **16 (1)**, 27-32. (2010) (in Turkish).

**14)** Nutrient content and *in vitro* digestibility of Turkish grape pomaces. **Basalan, M.** Owens, F. N., Gungor, T., Yalcinkaya, I. *Animal Feed Science and Technology*. **169**, 194-198. (2011).

**15)** Atlar İçin Rasyon Hesaplamaları, **Başalan, M.**, ve T. Güngör. *Türkiye Yem Sanayicileri Birliği Yem Magazin*, **38**, 60-64. (2004). (Çeviri; David W. Freeman) (In Turkish)

**16)** Atlarda Beslenme ve Sağlık, **Başalan, M.** *Türkiye Yem Sanayicileri Birliği Yem Magazin*, **40**, 77-83 (2005). (In Turkish)

**17)** Kırıkkale Yöresinde Üretilen Bazı Tane Yemler ve Yan Ürünlerinde Besin Madde Miktarları ve Metabolize Olabilir Enerji Düzeylerinin Belirlenmesi, Gungor, T., **M. Basalan**, I. Aydoğan. *Ankara Üniversitesi Veteriner Fakültesi Dergisi*, **54 (2)**, 133-138 (2007). (In Turkish)

**18)** İneklerin Gebelikten Laktasyona Geçiş Dönemindeki Bağışıklık Problemleri ile Beslenme İlişkisi, **Basalan, M.** *Türkiye Yem Sanayicileri Birliği Yem Magazin*, **49**, 37-37 (2007) (In Turkish)

**19)** Kırıkkale Yöresinde Üretilen Bazı Kaba Yemlerde Besin Madde Miktarları ve Metabolize Olabilir Enerji Düzeylerinin Belirlenmesi, Gungor, T., **M. Basalan**, I. Aydoğan. *Ankara Üniversitesi Veteriner Fakültesi Dergisi*, **55 (2)**, 111-115 (2008). (In Turkish)

**20)** Kırıkkale'de endüstri bölgesi civarında toprak, yem, su ve bu yörede yetiştirilen koyunlar ile parazitlerinde bazı ağır metallerin (Cd, Cu, Pb, Zn) belirlenmesi, Beskaya, A., Yıldız, K., **Basalan, M.**, Us, M. F. *Etlik Veteriner Mikrobiyoloji Dergisi*, **19 (1)**, 39-46 (2008). (In Turkish)

**21)** Antiparasitic efficiency of *Artemisia Abshintium* on *Toxocara Cati* in naturally infected Cats, Yıldız, K., **M. Başalan**, Ö. Duru, S. Gökpınar. *Türkiye Parazitoloji Dergisi*, **34**, 10-14. (2011).

**22)** The effect of prebiotic and organic zinc alone and in combination in broiler diets on the performance and some blood parameters. Yalçinkaya, I., M. Çınar, E. Yıldırım, S. Erat, **M. Başalan** And T. Güngör. *Italian Journal of Animal Science*. **11 (3)**, 298-302. (2012)

**23) BASALAN, M.** (2015) *Biotechnology and Animal Nutrition* (with M. Abubakar) *The Role of Biotechnology in Improvement of Livestock* (Editors: M. Abubakar, A. Saeed and O. Kul) *Springer –Verlag, Berlin Heidelberg*.

**24). BAŞALAN, M.** (2015). *Beslenme Hastalıkları, Kedi ve Köpek Hekimliği* (Editör: Prof. Dr. Ender YARSAN) *Güneş Tıp Kitabevleri, Ankara*.

**25) BASALAN, M.** (2016). *Ruminal Fermentation* (with F.N. Owens) *Rumenology* (Editors: D. D. Millen, M. D. B. Arrigoni, R. D. L. Pacheco) *Springer International Publishing, Switzerland*.

**26). BAŞALAN, M.** (2017). *Koyunlarda Beslenme ve Beslenme Hastalıkları, Koyun ve Keçi Hekimliği* (Editör: Prof. Dr. Ender YARSAN) *Güneş Tıp Kitabevleri, Ankara*.

#### **Meetings attended with presentations:**

**1)** Corn maturation: changes in grain and cob. **M. Basalan**, R. Bayhan, D. S. Secrist, J. Hill, F. N. Owens, M. Witt and K. Kreikemeier (1995) *American Society of Animal Science Annual Meeting*, July 24-26 1995, Orlando, Florida, USA.

**2)** Effects of trace mineral supplements on performance of feedlot steers. W. J. Hill, D. S. Secrist, F. N. Owens, C. A. Strasia, D. R. Gill, **M. Basalan** and A. B. Johnson (1996) *American Society of Animal Science Annual Meeting*, July 26-29 1996, Rapid City, South Dakota, USA.

**3)** Influence of NDF source and ruminal pH on in situ fiber disappearance. **M. Basalan**, E. Polat, and F. N. Owens (1999) *American Society of Animal Science Annual Meeting*, July 21-23 1999, Indianapolis, Indiana, USA.

**4)** Impact of level of feed intake and ruminal pH on in situ fiber disappearance of NDF, ADF and hemicellulose from several roughage sources. **M. Basalan** and F.N.Owens (2000) *American Society of Animal Science Midwestern Section Meeting*, Mach 15-17 2000, Des Moines, Iowa, USA.

**5)** The effects of different levels of zinc on growth and tissue zinc concentration in turkey. **M. Basalan**, M. Yildirim, A. Sogut, E. Istanbuluoglu, C. Dogan, B. Ozarslan, F. Ildiz. *2<sup>nd</sup> National Animal Nutrition Congress*, September 18-20, 2003, Konya, Turkey

**6)** Effect of dietary zinc on humoral immune response, growth and internal organ developments in turkeys. E. Istanbuluoglu, A. Söğüt, **M. Başalan**, M. Yıldırım,

C. Doğan, B. Özarslan, F. Ildiz, N. Çetinkaya, A. Kılıçaslan, XXII World's Poultry Congress. 8-13 June 2004, Istanbul, Turkey.

7) Effects of feeding Sodium chlorate prior to slaughter on *Campylobacter jejuni*, and intestinal environment of turkeys. M. Yildirim, **M. Basalan**, E. Istanbuluoglu, B. Ozarslan, N. Uckarakaya, 5<sup>th</sup> International Symposium on Turkey Diseases Berlin, Germany 16<sup>th</sup> - 19<sup>th</sup> June 2004

8) Effect of dietary zinc on performance, internal organ weights and humoral immune response in turkeys. E. İstanbulluoğlu, A. Söğüt, **M. Başalan**, M. Yıldırım, C. Doğan, B. Özarslan, F. Ildiz, N. Çetinkaya, A. Kılıçaslan, VI. National Congress of Veterinary Microbiology. 14-16 September 2004, Elazig, Turkey.

9) Effects of feeding Sodium chlorate prior to slaughter on *Campylobacter jejuni*, and intestinal environment of turkeys. **M. Basalan**, M. Yildirim, E. Istanbuluoglu, B. Ozarslan, N. Uckarakaya, VI. National Congress of Veterinary Microbiology. 14-16 September 2004, Elazig, Turkey.

10) Effects of Deep Stacking Methods for Recycled Poultry Bedding, **Basalan, M.**, M. Yildirim, E. Istanbuluoglu, N. Uckarakaya, S. Yaman. 14<sup>th</sup> World Veterinary Poultry Congress. Istanbul, Turkey. 2005.

11) Effects of Feeding HSCAS at Later Ages in Broilers, **Basalan, M.**, I. Aydogan, T. Gungor, S. Erat, E. Erdem. 14<sup>th</sup> World Veterinary Poultry Congress. Istanbul, Turkey. 2005.

12) The physical environment and diet: important effects on the results of the laboratory animal studies. Erat, S., **Başalan, M.** East Mediterranean ICLAS symposium. June 13-15, 2011 İstanbul, p: 56.

13) Effect of dietary supplementation of organic zinc and mammanoligosaccharide on the performance, carcass traits and some blood parameters of broilers. Yalçinkaya, I. Güngör, T., **Basalan, M.**, Cinar M., Yıldırım, E. East Mediterranean ICLAS symposium. June 13-15, 2011 İstanbul, p: 121

14) Broylerlerde Rasyona Kesim Öncesi HSCAS İlavesinin Performans, Sindirim Sistemi pH'ları ve Biyokimyasal Parametreler Üzerine Etkisi. **Basalan, M.**, T. Gungor, I. Aydoğan, Ş. E. Hişmioğulları, S. Erat, ve E. Erdem. III. Ulusal Hayvan Besleme Kongresi, Adana, 2005. (In Turkish)

15) Laboratuvar Hayvanları ile Yapılan çalışmalarda Beslemenin İstatistik Sonuçlar Üzerine Etkisi, **Basalan, M.**, T.Gungor, D. Bacanlı. IV. Ulusal Hayvan Besleme Kongresi, Bursa, 2007. (In Turkish)

16) Broylerlerde Saccharomyces Cerevisiae'den elde edilen Mannanligosakkarit (MOS): Performans ve Kan Parametrelerine Etkisi. Yalçinkaya, İ., Güngör, T., **Başalan, M.**, Erdem, E. IV. Ulusal Veteriner Biyokimya ve Klinik Biyokimya Kongresi, İstanbul. 2009. (In Turkish)

17) Broyler Rasyonlarında Organik Selenyum ve Vitamin E Kullanımının Performans, İç Organ Ağırlıkları ve Kan Parametreleri Üzerine Etkisi. Yalçinkaya,

İ., Güngör, T., **Başalan, M.**, Çınar, M., Saçaklı, P. V. *Ulusal Hayvan Besleme Kongresi (Uluslararası Katılımlı)*, Çorlu, 2009. (In Turkish)

**18)** Farklı enerji kaynaklarının ve probiyotik ilavesinin sütten kesim dönemindeki tayların büyüme performansı ve metabolizma üzerine etkileri, Ari, Y., **Başalan, M.** VI. Ulusal Hayvan Besleme Kongresi (Uluslararası Katılımlı), 30 Haziran – 02 Temmuz 2011, Samsun, 520-527. (In Turkish)

**19)** Şarap sanayi yan ürünlerinin besin madde içeriklerinin ve in vitro parçalanabilirliklerinin belirlenmesi, **Başalan M.**, Duyum, S. VI. Ulusal Hayvan Besleme Kongresi (Uluslararası Katılımlı), 30 Haziran – 02 Temmuz 2011, Samsun, 456-460. (In Turkish)

**20)** Polland XXI. Current Problems in Buiatrics Conference 7-8 October 2011. "Effects of nutrition on reproductive diseases in dairy cows". **Basalan M.** Invited Speaker. pp 163-177. 7-8 October 2011, Lomza, Poland.

**21)** Owens, F. N., **Basalan, M.** Enhancing the value of corn grain in dairy and beef diets through high moisture harvest and steam flaking. *73rd Minnesota Nutrition Conference*. September, 18-19, 2012. Owatonna MN.

**22)** Owens, F. N., & **Basalan M.** Starch digestion and energy value of different grains. *7th Congress of Ruminant Nutrition*, December 12-14, 2012. Paricicaba, Brazil

**23)** Owens, F. N., & **Basalan M.** Grain Processing: Gain and Efficiency Responses by Feedlot Cattle. *2013 Plains Nutrition Council Spring Conference*, April 18-19, 2013. San Antonio, TX 78205, USA

**24)** **Basalan M.** & Owens, F. N. Grape Pomace Silage Characteristics and In Vitro Digestibility With or Without Recycled Poultry Bedding. *American Society of Animal science and American Dairy Science Association Joint Annual Meeting*, July 8-12, 2013. Indianapolis IN, USA

**25)** **BAŞALAN M.**, ŞEN G., YURTALAN G. Çiftlik Hayvanlarında Beslenme bağışıklık / Sağlık İlişkisi, 9.ncu Ulusal Zootekni Bilim Kongresi, 5 – 7 Eylül 2015, Konya, s. 553 – 563.

**26)** Gökhan ŞEN, **Mehmet BAŞALAN** Etlik Cıvcıv ve Piliç Rasyonlarında Üzüm Posası İle İnülin Kullanımının Performans, Karkas Randımanı, Barsak Viskozitesi Üzerine Etkileri. 1.st International Animal Nutrition Congress, September 28 – October 1 2016, Antalya, TURKEY

**27)** Hasan Can BEKTAŞ, **Mehmet BAŞALAN** Yonca Silajına Üzüm Posası İlavesinin Silaj Karakteri, Besin Maddeleri ve *in vitro* Parçalanabilirliği Üzerine Etkisi 1.st International Animal Nutrition Congress, September 28 – October 1 2016, Antalya, TURKEY

**28)** Hasan Hüseyin ŞENYÜZ, Mehmet Akif KARSLI, **Mehmet BAŞALAN**  
Kurutulmuş Damıtma-Tane ve Çözünürlerinin (DDGS) Hayvan Beslemede  
Kullanımı 1.st International Animal Nutrition Congress, September 28 – October  
1 2016, Antalya, TURKEY

**Projects funded by National Funding Agencies:**

1) Humoral immunity in turkeys in response to dietary zinc supplementation,  
(Turkish Atomic Energy Council, Ankara Animal Research Center (TAEK-  
ANTHAM), (2001) Project Leaders: 1. Prof. Dr. Ersin İstanbulluoğlu, 2. DVM Ali  
Söğüt, Researchers: 1. Assist. Prof. Dr. Murat Yıldırım, **2. Dr. Mehmet Başalan**,  
3. Agr. Eng. Faruk İldız, 4. Agr. Eng. Cenk Doğan.

2) Determination of the nutrient quality and in vitro digestibility characteristics of  
the winery by-products in Kirikkale region. Kirikkale University Scientific  
Research Project, (2002): Project Leader: **Assist. Prof. Dr. Mehmet Başalan**,  
Researchers: Assoc. Prof. Dr. Tülin Güngör, Dr. İlkey Yalçınkaya,

3) Determination of microbial load of broiler litter prior to and after irradiation and  
study for feasibility of using as a ruminant feed. TAEK -ANTHAM-HBB Project,  
Project Leader: Ali SÖĞÜT<sup>1</sup>, Ersin İSTANBULLUOĞLU<sup>2</sup>, Researchers:  
**M.BASALAN**, F.AYDIN, M.YILDIRIM, F.ILDIZ, A.ÇORAK,

4) Use of Urea- Molasses Blocks as Feed Supplement in Sheep Feeding,  
Ministry of Agriculture and Rural Affairs, (TAGEM) Project: Dr. Sema Yaman,  
**Dr. Mehmet Başalan**, Dr. Bekir Ankaralı, Müh. Ali Bilgen, Dr. Selma Doğanay,  
Prof.Dr. Ersin İstanbulluoğlu, Yrd.Doç Dr. Murat Yıldırım.

**5)** Characterization of Grape pomace – Broiler litter silages. Kirikkale University  
Scientific Reserch Fund Unit (BAP/2005/18) **Project Coordinator**, 2005.

**6)** Mannan Oligosaccharide addition to Broiler ration on growth performance. .  
Kirikkale University Scientific Reserch Fund Unit (BAP), **Project Researcher**,  
2004.

**7)** Determination of nutrient contents and metabolizable energy levels of  
feedstuffs produced/utilized in Kirikkale region. . Kirikkale University Scientific  
Reserch Fund Unit (BAP) **Project Researcher**, 2002.

**8)** Effects of using organic selenium and vitamin E in broiler ration on  
performance and carcass characteristics and key blood metabolites. Kirikkale  
University Scientific Reserch Fund Unit (BAP) **Project Researcher**, 2003.

**9)** Investigation of some heavy metals in sheep tissues, sheepparasites, **soil**,  
feed and drinking water near petrolium refinery and ammunition factories in  
Kirikkale Region. Turkish Agriculture and Rural Affairs Ministry, Agricultural  
Research Directorate (TAGEM) Project. **Project Researcher**, 2005.



**10)** Determination In situ Rumen disappearance of grape pomaces in Angora goats . Kirikkale University Scientific Reserch Fund Unit (BAP/2008/43) **Project Coordinator** 2008.

**11)** Promoting silage making and its usage and establishing feed quality laboratories. Ahiler Development Agency Project (Ahiler Kalkınma Ajansı AHİ-KA-2010-KK-64) **Project Coordinator** 2010

### **Attended Scientific International Activities**

1) EU FP-6 Project, COST B24 Action “Laboratory Animal science and welfare” “Experimental Design and Statistical Methods in Biomedical Experimentation” Biostatistics Short Course (20-24 November 2006, Kuopio, Finland)

2) European Association for Animal Production, 57th Annual Meeting Attendee (17-20 September 2006 Antalya, Turkey)

3) European Association for Animal Production, 59th Annual Meeting Attendee (24-27 August 2008. Vilnius, Lithuania)

4) EU FP7 Project, Reduction of Nitrogen Excretion (REDNEX) “Nitrogen Utilization and Loss by Dairy Cows – State of Art in Modelling and Prediction” workshoop attendee (21-25 August 2008, Vilnius, Lithuania)

5) European Association of Edocation for Veterinary Establishments. Annual Meeting Attendee, (07-09 May 2008, Kopenhagen, Denmark)

6) Lifelong Learning (Erasmus) Lecturer Exchange Programme Wroclaw University of Environmental and Life Sciences, 5 hour Lectureship mobility (14 – 22 April 2007 Wroclaw, Polland)

7) Lifelong Learning (Erasmus) Lecturer Exchange Programme. Latvia University of Agriculture, Faculty of Veterinary Medicine, 5 hour Lectureship mobility (20 – 24 May 2009 Jelgava, Latvia)

8) EU FP7 Project, Reduction of Nitrogen Excretion (REDNEX) “Protein Metabolism and N excretion in dairy cattle” Workshoop attendee (24-25 August 2009, Barcellona, Spain)

9) Lifelong Learning (Erasmus) Lecturer Exchange Programme. University of Life Sciences in Lublin, 5 hour Lectureship mobility (08 – 11 March 2011 Lublin, Polland)

10) Polland XXI. Current Problems in Būiatrics Conference 7-8 October 2011. “Effects of nutrition on reproductive diseases in dairy cows”. Invited Speaker. (7-8 October 2011, Lomza, Polland)

11) Lifelong Learning (Erasmus) Lecturer Exchange Programme. Latvian University of Agriculture Faculty of Veterinary Medicine, 5 hour Lectureship mobility (06 – 12 May 2012 Jelgava, Latvia)

12) Fellow Guest Researcher,. Pioneer Hi-Bred International LLC. Johnston, Iowa, USA. (23 July 2012 – 15 October 2012)

13) Mevlana Lecturer exchange programme. Türk-Kırgız Manas University Veterinary Faculty, 5 hour Lectureship mobility (14 – 22 March 2014 Bişkek, Kirgizistan).

14) Erasmus + Teacher Exchange Programme (5 hours teaching): University of Teramo, Veterinary Faculty 08-12 May 2016, Teramo, ITALY.

### **References:**

**1. Fred N. Owens**, (Ph.D., Senior Ruminant Research Nutritionist)  
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10700 Justin Drive, Des Moines, IA 50322, USA  
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**2. Ekrem YILDIZ**, (Ph.D., Rector in Kirikkale University)  
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Kampus, 71450 Yahsihan Kirikkale TURKEY  
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