

## Curriculum Vitae

**Name:** Andreas Foskolos

**Position:** Assistant Professor, Department of Animal Science

### Education

- 2008- 2012 PhD in Animal Science, Universidad Autonoma de Barcelona, Spain
- 2009- 2012 MSc in History of Science, Universidad Autonoma de Barcelona, Spain
- 2004- 2006 MSc in Animal Sciences and Aquaculture (Specialization: Animal Nutrition), Wageningen University, The Netherlands
- 1997-2002 BSc in Animal production, Technological and Educational Institute of Larisa, Greece

### Awards

- 2017 Most-Cited Award for the Nutrition, Feeding, and Calves section of the Journal of Dairy Science for the paper: "The Cornell Net Carbohydrate and Protein System: Updates to the model and evaluation of version 6.5" των Van Amburgh, M. E., Collao-Saenz, E. A., Higgs, R. J., Ross, D. A., Recktenwald, E. B., Raffrenato, E., Chase, L. E., Overton, T. R., Mills, J. K., Foskolos, A.
- 2004 Scholarship for postgraduate studies, (State Scholarships Foundation of Greece, [www.iky.gr](http://www.iky.gr))

### Professional Experience

- 2019- Associate Professor, Department of Animal Science, University of Thessaly, on Cattle Production with emphasis on strategies to reduce the environmental impact
- 10/2019 – Visiting Professor, University of Parma, Italy  
01/2020
- 12/2015- Research fellow in ruminant livestock modelling, Institute of  
06/2019 Biological Environmental and Rural Sciences, Aberystwyth University, United Kingdom
- 02/2013- Postdoctoral Associate, Department of Animal Sciences, Cornell  
09/2015 University, United States of America
- 09/2008- Special lab technician dedicated to research, Universidad Autonoma  
11/2012 de Barcelona, Spain (REDNEX EU funded project: Innovative and practical management approaches to reduce nitrogen excretion by ruminants)
- 01/2007- Animal Nutritionist, Noutria Hellas Tsolakis & Co IKE  
09/2008

04/2001- 06/2001	Research assistant, Technological and Educational Institute of Larisa, Greece (AROMIS-EU funded project: Soil contamination of heavy metals in the EU.
01/2000- 07/2000	Internship in the laboratory of Soil Science, Technological and Educational Institute of Larisa, Greece

---

### Teaching Experience

➤ *BSc Level*

Institute	Year	Course
Aberystwyth University	2016-17	BR23420 Research Methodology
	2017-18	
	2017-18	BRM6420_ABO Research Methodology in Biosciences
	2016-17	BR32330_ABO: Dissertation
Parma University	2019-20	Dairy Cattle Nutrition
University of Thessaly	2019-20	Ethics in Agricultural Technology
	2020-21	
	2021-22	
	2022-23	
Program: Agricultural Technology	2019-20	Technical and Financial Analysis
	2020-21	
	2021-22	
	2022-23	
	2020-21	Small Ruminant Production
	2021-22	
	2022-23	
	2020-21	Bovine Production
	2021-22	
	2022-23	
Program: Animal Science	2020-21	Introduction in Animal Science
	2020-21	Small Ruminant Production
	2021-22	
	2022-23	
	2021-22	Bovine Production

---

	2022-23	
	2021-22	Ruminant Nutrition
	2022-23	

➤ *MSc Level*

Institute	Year	Course
Aberystwyth University	2017-18	BRM0300-Animal Nutrition I
	2016-17	BRM0320 Animal Nutrition II
	2017-18	
	2016-17	BRM5420 Animal Science
	2017-18	
	2017-18	BDM3520: Dissertation
University of Thessaly	2019-20	Use of Aromatic and Pharmaceutical Plants in Animal production
	2022-23	Environmentally friendly Livestock Production Systems

➤ *Supervision of BSc Dissertations*

Institute	Student	Title
Aberystwyth University	Nia Davies	Ketosis of dairy cows fed on pasture
	Zoe Morgan	In vitro evaluation of formate salts addition on DM and NDF digestibility of forages.
University of Thessaly	Vakondios Ioannis	Professional's opinion on lamb and kid meat organoleptic characteristics directed to the market during Easter.
	Tremmas Konstantinos	Evaluation of nitrogen use efficiency of heifers in Greek dairy farms
	Gatsas Konstantinos	Evaluation of nitrogen use efficiency of dairy cows in Greece
	Chrysafis Ioannis	Overview of Greek dairy cattle farming with emphasis on environmental impact

➤ *Supervision of MSc Dissertations*

Institute	Student	Title
-----------	---------	-------

Aberystwyth University	Mikenzie England Hanlon	The effect of nutritionally improved straw at two levels of starch on dairy cattle performance
------------------------	-------------------------	--

➤ *Supervision of PhD Dissertations*

1. Supervisor

Institute	PhD candidate	Title
University of Thessaly	Plomaritou Antigoni	Improvement of nitrogen use efficiency on replacement dairy heifers
	Leandros Makridis	Development of manure management systems strategies on regional level
	Botecis Ilias	Financial consequences of lameness in dairy cattle

2. Participation (not main supervisor)

Institute	PhD candidate	Title
Cornell University	Samuel Fessenden	Evaluation of Fermenten on rumen degradation kinetics and production performance
	Alessandro Zontini	In vitro and in vivo dynamics of NDF degradation
Liverpool University	Will Tuley	A study on the relationship between periparturient muscle catabolism, fertility and health in dairy cattle.
Agricultural University of Athens	Mikenzie England Hanlon	Improvement of nitrogen use efficiency of dairy cattle farming
	Foivos Zisis	The effects of including selected minerals on production and health of dairy cows.

**Administrative Work:**

Committee of management and utilization of animal production of the Gaiopolis farm (University of Thessaly).

Committee for the receipt of materials, labor and distribution of farm products of the University of Thessaly farm (Gaiopolis).

**Research Funding**

➤ *EU-funded projects*

Horison 2020-MSCA-RISE: CowficieNcy (777974): Upgrading and implementing mathematical models to increase nitrogen use efficiency of lactating dairy cows (1M €).

➤ *National projects*

ELKE (UT)-6525: A Evaluation and improvement of nutritional management on dairy cattle farms (Industrial funding)

ELKE (UT)-6541: Implementation of the Cornel Net Carbohydrate and Protein System in dairy farms (Industrial funding)

ELKE (UT)-7165: Administration of protected amino acids in lactating dairy sheep (Industrial funding)

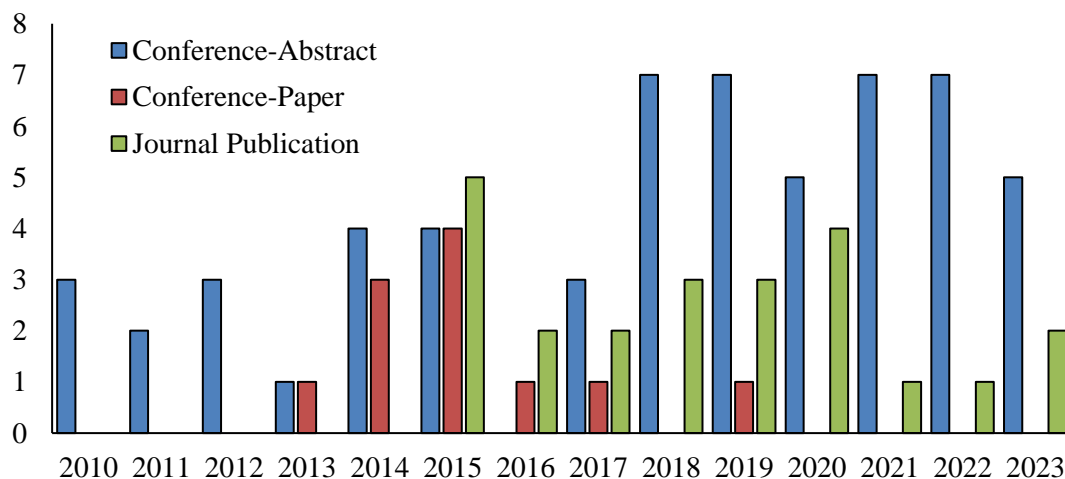
ESPA: Support of the internalization of the University of Thessaly (ΜΙΣ 5153418).  
Actions: MSc in Dairy Cattle Management

MRDF: Management of Industrial Cannabis (*Cannabis sativa*) varieties for yield and fiber quality optimization for the soil and environmental conditions of Thessaly's region (Ministry of Rural Development and Food, Act 16, 16.1-16.5, Action 2)

➤ *Patents*

**Scientific Work:**

➤ *Publications*



**Figure 1.** Scientific Publications

➤ *Publications in peer-reviewed journals*

1. Foskolos A. and Plomaritou A. (2023). Guest editorial: Holistic Nutritional Management as a tool to mitigate nitrogen pollution from dairy cattle farming. *The Journal of Agricultural Science*, in press

2. Hanlon, M. E., M. Simoni, J. M. Moorby, F. Righi, E. Tsiplakou, D. Kantas, and A. Foskolos. 2023. Effects of the addition of non-fibre carbohydrates with different rumen degradation rates in dairy cow high-forage diets using the Rumen Simulation Technique. *Animal* 17(4):100732
3. Hatfield, C., W. Tulley, R. Hall, B. E. Griffiths, A. Foskolos, R. F. Smith, and G. Oikonomou. 2022. A Prospective Cohort Study on the Periparturient Muscle Tissue Mobilisation in High Producing Dairy Cows. *Animals* 12(14):1772
4. Christodoulou, C., J. M. Moorby, E. Tsiplakou, D. Kantas, and A. Foskolos. 2021. Evaluation of nitrogen excretion equations for ryegrass pasture-fed dairy cows. *Animal* 15(9):100311.
5. Hanlon, M. E., J. M. Moorby, H. R. McConochie, and A. Foskolos. 2020. Effects of addition of nutritionally improved straw in dairy cow diets at 2 starch levels. *J. Dairy Sci.* 103(11):10233-10244.
6. Foskolos, A., A. Ferret, A. Siurana, L. Castillejos, and S. Calsamiglia. 2020. Effects of Capsicum and Propyl-Propane Thiosulfonate on Rumen Fermentation, Digestion, and Milk Production and Composition in Dairy Cows. *Animals* 10(5):859.
7. Soteriades, A. D., A. Foskolos, D. Styles, and J. M. Gibbons. 2020. Maintaining production while reducing local and global environmental emissions in dairy farming. *Journal of Environmental Management* 272:111054.
8. Simoni, M., R. Temmar, D. A. Bignamini, A. Foskolos, A. Sabbioni, M. Ablondi, A. Quarantelli, and F. Righi. 2020. Effects of the combination between selected phytochemicals and the carriers silica and Tween 80 on dry matter and neutral detergent fibre digestibility of common feeds. *Ital. J. Anim. Sci.* 19(1):723-738.
9. Fessenden, S. W., A. Foskolos, T. J. Hackmann, D. A. Ross, E. Block, and M. E. Van Amburgh. 2019. Effects of a commercial fermentation byproduct or urea on milk production, rumen metabolism, and omasal flow of nutrients in lactating dairy cattle. *J. Dairy Sci.* 102(4):3023-3035.
10. Fessenden, S. W., T. J. Hackmann, D. A. Ross, E. Block, A. Foskolos, and M. E. Van Amburgh. 2019. Rumen digestion kinetics, microbial yield, and omasal flows of nonmicrobial, bacterial, and protozoal amino acids in lactating dairy cattle fed fermentation by-products or urea as a soluble nitrogen source. *J. Dairy Sci.* 102(4):3036-3052.
11. Soteriades, A. D., A. Foskolos, D. Styles, and J. M. Gibbons. 2019. Diversification not specialization reduces global and local environmental burdens from livestock production. *Environment International* 132:104837.
12. Soteriades, A. D., A. M. Gonzalez-Mejia, D. Styles, A. Foskolos, J. M. Moorby, and J. M. Gibbons. 2018. Effects of high-sugar grasses and improved manure management on the environmental footprint of milk production at the farm level. *J. Clean. Prod.* 202:1241-1252

13. Foskolos, A. and J. M. Moorby. 2018. Evaluating lifetime nitrogen use efficiency of dairy cattle: A modelling approach. *PloS one* 13(8):e0201638
14. Fodor, N., Foskolos, A., Topp, C.F.E., Moorby, J.M., Pásztor, L., and Foyer, C.H. Spatially explicit estimation of heat stress-related impacts of climate change on the milk production of dairy cows in the United Kingdom Submitted: *Plos One* 13(5):e0197076
15. Styles, D., Gonzalez-Mejia, A., Moorby, J., Foskolos, A., Gibbons, J. (2018). Climate mitigation by dairy intensification depends on intensive use of spared grassland. *Global Change Biology*, 24: 681-693
16. Righi, F., M. Simoni, A. Foskolos, V. Beretti, A. Sabbioni, and A. Quarantelli. 2017. In vitro ruminal dry matter and neutral detergent fibre digestibility of common feedstuffs as affected by the addition of essential oils and their active compounds. *J. Anim. Feed Sci.* 26(3):204-212.
17. Fessenden, S.W., Hackmann, T.J., Ross, D.A., Foskolos, A., and Van Amburgh, M.E. (2017). Ruminal bacteria and protozoa composition, digestibility and amino acid profile determined by multiple hydrolysis times. *Journal of Dairy Science*, 100 (9): 7211-7226
18. Foskolos, A., Cavini, S., Ferret, A., Calsamiglia, S. 2016. Effects of essential oil compounds addition on ryegrass silage protein degradation. *Canadian Journal of Animal Science*, 96 (2): 100-103
19. Ehrhardt, R.A., Foskolos, A., Giesy, S.L., Thorn, S.R., Butler, W.R., Quirk, S.L., Waldron, M.R., and Boisclair, Y.R. 2016. Increased plasma leptin attenuates adaptive metabolism in early lactating dairy cow. *Journal of Endocrinology*, 229 (2): 145-157
20. Foskolos, A., Ehrhardt, R.A., Hileman, S.H., Gertler, A. and Boisclair, Y.R. 2015. Insensitivity of well-conditioned mature sheep to short-term reduction of central leptin signaling. *Animal*, 9(11): 1852-1858
21. Van Amburgh, M.E., Collao-Saenz, E.A., Higgs, R.J., Ross, D.A., Recktenwald, E.B., Raffrenato, E., Chase, L.E., Overton, T.R., and Foskolos, A. 2015. The Cornell Net Carbohydrate and Protein System: Updates to the model and evaluation of version 6.5. *Journal of Dairy Science*, 98:6361–6380
22. Foskolos, A., A. Siurana, Rodriguez-Prado, M., Ferret, A., Bravo, D., and Calsamiglia, S. 2015. The effects of a garlic oil chemical compound, propyl-propane thiosulphonate (PTSO), on ruminal fermentation and fatty acid outflow in a dual flow continuous culture system. *Journal of Dairy Science*, 98:5482–5491
23. Foskolos, A., Calsamiglia, S., Chrenkova, M., Weisbjerg, M.R., Albanell, E. 2015 Prediction of rumen degradability parameters of a wide range of forages and non-forages by near infrared reflectance spectroscopy. *Animal*, 9(7):1163–1171

24. Cavini, S., Iraira, S., Siurana, A., Foskolos, A., Ferret, A., and Calsamiglia, S. 2015. Effect of sodium butyrate administered in the concentrate on rumen development and productive performance of lambs in intensive production system during the suckling and the fattening periods. *Small Ruminant Research*, 123:212-217

➤ *Papers in peer-reviewed Conference Proceedings*

1. Foskolos A. (2019). Current status of NDF analysis and use on ruminants. *Animal Science Review* (in Greek)
2. Foskolos A. (2017) Mejora de la eficiencia del uso del nitrógeno de la leche a través del manejo acelerado de la nutrición del ganado lechero. (Improvement of milk nitrogen use efficiency through accelerated nutrition management of dairy cattle). III Jornada FEDNA - ANEMBE sobre nutrición de ruminantes: 55-61, Madrid, Spain
3. Foskolos, A., and Morby, J.M. (2016) Lifetime nitrogen efficiency of dairy cattle: Model description and sensitivity analysis. *Advances in Animal Biosciences*, 7 (3): 256-258. LiveM 2016: Modelling Grassland-Livestock Systems Under Climate Change. Potsdam, Germany
4. Van Amburgh, M.E., Foskolos, A., and R.J. Higgs. 2015. Balancing diets with CNCPS v6.5: What changed and implications for use. 77th Cornell Nutrition Conference for Feed Manufacturers. Cornell University, Syracuse, NY
5. Zontini, A. M., A. Foskolos, D.A., Ross, J. Metcalf, P.H. Doane and M. E. Van Amburgh. 2015. Research update: Formulating diets for lactating cattle using multiple pools of NDF digestibility. 77th Cornell Nutrition Conference for Feed Manufacturers. Cornell University, Syracuse, NY
6. Van Amburgh, M.E., Grant, R.J., Cotanch, K.W., Zontini, A., Ross, D.A. and Foskolos, A. 2015. NDF: Making something old new again. Herd Health & Nutrition Conferences, March 17, 2015 – Holiday Inn, Liverpool/Syracuse, NY/ March 19, 2015 – Essex Resort and Spa, Essex Junction, VT
7. Van Amburgh, M. E., R. J. Higgs, A. Foskolos, D. A. Ross, and L. E. Chase. 2015. Updates to the CNCPS v6.5 and a perspective on the future. Mid-South Ruminant Nutrition Conference, Grapevine, Texas, USA 20-21 August 2015
8. Gutierrez-Botero, M., A. Foskolos, D. A. Ross, and M. E. Van Amburgh. 2014. The effect of protein intestinal digestibility on nitrogen efficiency and performance in high producing dairy cattle. 76th Cornell Nutrition Conference For Feed Manufacturers. Cornell University, Syracuse, NY
9. Foskolos, A., Higgs, R., Collao Saenz, E., Ross, D.A., Van Amburgh, M.E. Changes in the Cornell Net Carbohydrate and Protein Model: How low we can drive crude protein in the ration? Pacific Northwest Animal Nutrition Conference, Vancouver, British Columbia, 8-9 October 2014



10. Van Amburgh, M.E., Higgs, R.J., Foskolos, A., Collao-Saenz, E.A. and Ross, D.A. (2014). Making an old model new again: Updates to the CNCPS and a perspective on the future. Southwest Nutrition and Management Conference, Tempe, Arizona, USA 20-21 February 2014.
11. Van Amburgh, M.E., Foskolos, A., Collao-Saenz, E.A, Higgs, R.J. and Ross, D.A. (2013). Updating the CNCPS feed library with new feed amino acid profiles and efficiencies of use: Evaluation of model predictions, version 6.5. 75th Cornell Nutrition Conference For Feed Manufacturers, Syracuse, NY, USA 22-24 October 2013.

➤ *Abstracts in Conference proceedings*

1. Foskolos, A., T. Michou, A. Plomaritou, S. Athanasiadis, K. Gatsas, K. Droumtsekas and S. Changli. (2022). Partial replacement of soybean meal with processed soybean meal in Karagouniko dairy sheep. EAAP 73rd Annual meeting, Porto, Portugal, 5 - 9 September 2022
2. Vakondios, I. and A. Foskolos (2022). Professionals perception on lamb and kid meat quality characteristics in Greece. EAAP 73rd Annual meeting, Porto, Portugal, 5 - 9 September 2022
3. Plomaritou, A., M.E. Hanlon, K. Gatsas, R.G. Pitino, K. Tremmas, L. Karatosidi, F. Righi and A. Foskolos (2021). Evaluation of growth and reproduction performance of replacement dairy heifers. EAAP 72nd Annual meeting, Davos, Switzerland, 30 August - 3 September 2021
4. Plomaritou, A., D. Tsolakis, T. Michou, E. Sourla, K. Naselos, C. Papatzikou and A. Foskolos (2021). The effects of HeatAntistress on dairy cattle performance during increased heat stress periods. EAAP 72nd Annual meeting, Davos, Switzerland, 30 August - 3 September 2021
5. Campbell, M., Ortuno, J., Foskolos, A., Stergiadis, S. and Theodoridou, K. (2021). The wonder of willow tannin-rich trees (*Salix* spp): a potential valuable tree fodder for ruminants. 5th European Agroforestry Conference: Agroforestry for the transition towards sustainability and bioeconomy, 17-19 May 2021, Nuoro, Italy.
6. Simoni, M., R.G. Pitino, M.A. Belaid, A. Foskolos, A. Summer, A. Quarantelli and F. Righi (2020). Milk and casein nitrogen use efficiency of dairy farms in the Parmigiano Reggiano production area. EAAP 71<sup>st</sup> Annual meeting, Virtual Meeting, 1 – 4 December 2020
7. Soteriades, A.D., A. Foskolos, D. Styles and J.M. Gibbons (2020). The role of dairy-beef production in determining the environmental efficiency of dairy farms. EAAP 71<sup>st</sup> Annual meeting, Virtual Meeting, 1 – 4 December 2020
8. Pitino, R.G., M. Simoni, A. Foskolos, E. Tsiplakou, M. Ablondi, A. Quarantelli and F. Righi (2020). Available and missing information on production factors in

- Parmigiano Reggiano area dairy farms. EAAP 71<sup>st</sup> Annual meeting, Virtual Meeting, 1 – 4 December 2020
9. Christodoulou C., J.M. Moorby, E. Tsiplakou, A. Foskolos (2019). Evaluation of nitrogen excretion equations for pasture-fed dairy cows. EAAP 70th Annual meeting, Ghent, Belgium, 26 – 30 August 2019
  10. Foskolos, A., A.D. Soteriades, D. Styles, J. Gibbons (2019). The role of beef production in reducing the environmental burdens from livestock production. EAAP 70th Annual meeting, Ghent, Belgium, 26 – 30 August 2019
  11. Foskolos, A., F. Righi, R.G. Pitino, A. Quarantelli (2019). An insight of dairy farming in the Parmigiano Reggiano area. EAAP 70th Annual meeting, Ghent, Belgium, 26 – 30 August 2019
  12. M.E. Hanlon, M.E., J.M. Moorby, H. Mcconochie, A. Foskolos (2019). Effects of nutritionally improved straw in dairy cow diets at two starch concentrations. EAAP 70th Annual meeting, Ghent, Belgium, 26 – 30 August 2019
  13. Righi F., Simoni M., Foskolos A., Tsiplakou E., Quarantelli A. (2019). Evolution of the rumen fluid enzymatic activity during in vitro incubation. EAAP 70th Annual meeting, Ghent, Belgium, 26 – 30 August 2019
  14. Foskolos, A., Pierotti, S., Simoni, M., Righi, F., Moorby, J.M. (2018). The addition of non-fibre carbohydrates with different rumen degradation rates in high forage diets. EAAP 69th Annual meeting, Dubrovnik, Croatia, 27 – 31 August 2018
  15. Foskolos, A., Morgan, Z.C., Holt, M.D., Moorby, J.M. (2018). In vitro assessment of the use of formate salts to enhance rumen digestibility of roughage. EAAP 69th Annual meeting, Dubrovnik, Croatia, 27 – 31 August 2018
  16. Campbell, M., Foskolos, A., Theodoridou, K. (2018). Feed from the sea: A move towards sustainable ruminant livestock production using brown seaweed. EAAP 69th Annual meeting, Dubrovnik, Croatia, 27 – 31 August 2018
  17. Simoni M., Righi F., Foskolos A., Quarantelli A. (2018). Relationship between TMR particle size distribution and digestibility of hay-based diets. EAAP 69th Annual meeting, Dubrovnik, Croatia, 27 – 31 August 2018
  18. Campbell, M., Foskolos, A., Theodoridou, K. (2018). The wonder of willow tannin-rich tree (*Salix* spp. Salicaceae): A potentially valuable tree fodder for ruminants. 10th International Symposium on the Nutrition of Herbivores (ISNH), Clermont-Ferrand, France, 2 – 6 September 2018
  19. Foskolos, A., and Morby, J.M. (2017). The use of high sugar grasses as a strategy to improve nitrogen utilization efficiency: A meta-analysis. British Society of Animal Science Annual Conference, Chester, UK, 26-27 April 2017
  20. Foskolos, F., Gibbons, J., Gonzalez-Mejia, A., Moorby, J.M, and Styles, D. (2017). A life cycle assessment of high sugar grasses on pasture-based dairy farms. EAAP 68th Annual meeting, Tallinn, Estonia, 26 August – 1 September 2017

21. Foskolos, A., Topp, C.F.E., Moorby, J.M., Foyer, CH, and Fodor, N. (2017). Climate change related heat stress impact on milk yield of dairy cattle in the United Kingdom. EAAP 68th Annual meeting, Tallinn, Estonia, 26 August – 1 September 2017
22. Fessenden, S.W., Foskolos, A., Block, E., and Van Amburgh, M.E.. Effects of feeding Fermenten® or urea on milk production, rumen nitrogen metabolism and microbial nitrogen content in lactating dairy cattle. ADSA-ASAS joint meeting, Orlando, FL, USA, 12-16 July 2015
23. Collao Saenz, E., Foskolos, A., Higgs, R., Ross, D.A., Van Amburgh, M.E. Meta-analysis of the intake and productivity response to fresh sugarcane inclusion in lactating cows diets. ADSA-ASAS joint meeting, Orlando, FL, USA, 12-16 July 2015
24. Zontini, A. M., Foskolos, A., Ross, D. A. and Van Amburgh, M.E. Undegradable aNDFom in non-forage feeds ADSA-ASAS joint meeting, Orlando, FL, USA, 12-16 July 2015
25. Zontini, A. M., Foskolos, A., Ross, D. A. and Van Amburgh, M.E. aNDFom degradation behavior in non-forage feeds ADSA-ASAS joint meeting, Orlando, FL, USA, 12-16 July 2015
26. Ross, D.A., Foskolos, A., Gutierrez-Botero, M., and Van Amburgh M.E., Improving feed fractionation of nitrogen within Cornell Net Carbohydrate and Protein System: Moving from the acid detergent insoluble nitrogen system to unavailable nitrogen as defined in vitro. Joint ISNH/ISRP International Conference, Canberra, Australia, 8-12 September 2014
27. Foskolos, A., Collao-Saenz, E.A, Higgs, R.J., Ross, D.A., Recktenwald, E.B. and Van Amburgh, M.E. The New Version of The Cornell Net Carbohydrate and Protein System: Updates and Evaluation. Modelling Nutrient Digestion and Utilization in Farm Animals, 8th International Workshop, Cairns, Australia, 15-17 September 2014
28. Collao-Saenz, E.A, Foskolos, A., Higgs, Pereira, M.N., and Van Amburgh, M.E. Evaluation of the CNCPS v6.5 for predicting metabolizable energy and protein allowable milk in sugarcane based diets. ADSA-ASAS joint meeting, Kansas City, USA, 20-24 July 2014
29. Foskolos, A., Collao-Saenz, E.A, Higgs, R.J., Ross, D.A., Recktenwald, E.B. and Van Amburgh, M.E. Evaluation of the updated version of CNCPS (v6.5). ADSA-ASAS joint meeting, Kansas City, USA, 20-24 July 2014
30. Foskolos A, A. Siurana, A. Ferret, L. Castillejos, D. Bravo, S. Calsamiglia (2013). The effects of propyl-propylthiosulphonate and capsicum addition on ruminal fermentation and animal performance of lactating dairy cows. ADSA-ASAS joint meeting, Indianapolis, USA, 8-12 July 2013
31. Foskolos A., S. Cavini, A. Ferret and S. Calsamiglia (2012). The use of antibodies in order to alter bacterial population in the rumen. 63rd Annual Meeting of the

European Federation of Animal Science, Book of abstracts No 18, Bratislava, Slovakia, 27-31 August 2012

32. Foskolos A, E. Albanell, M. Chrenkova, S. Calsamiglia and M.R. Weisbjerg (2012) Group separation of feedstuffs improves prediction of degradability parameters by NIRS. 63rd Annual Meeting of the European Federation of Animal Science, Book of abstracts No 18, Bratislava, Slovakia, 27-31 August 2012
33. Foskolos A., S. Cavini, A. Ferret and S. Calsamiglia (2012). The use of antibodies in order to alter bacterial population in the rumen. Novus 20 years Innovation with Integrity Symposium, Reus, Spain, 18-19 October 2012
34. Foskolos A., S.H. Hileman, A. Getler, R.A. Ehrhardt and Y.V. Boisclair (2011). The role of central leptin signalling in regulating peripheral metabolic adaptations in the sheep. International Oskar Kellner Symposium, Warnemunde, Germany, 9-11 September 2011
35. Foskolos, A. F. De Souza, M. Rodriguez-Prado, A. Ferret, D. Bravo, and S. Calsamiglia (2011). Dose response effects of a garlic oil chemical compound propyl-propyl thiosulfate (PTSO) on rumen microbial fermentation. ADSA-ASAS joint meeting, New Orleans, USA, 10-14 July 2011
36. Foskolos A, E. Albanell, M. Chrenkova, S. Calsamiglia and M.R. Weisbjerg (2010). Prediction of degradability parameters by near infrared reflectance spectroscopy (NIRS). 3rd EAAP International symposium on energy and protein metabolism and nutrition Parma, Italy, 6-10 September 2010
37. Cavini,S., M. Rodriguez-Prado, S. Calsamiglia, A. Foskolos and M. A. Gomez (2010). Feeding glucogenic precursors to dairy goats carrying twins around kidding. ADSA-ASAS joint meeting, Denver, Colorado, Canada, 11-15 July 2010
38. Foskolos A., S. Cavini, M. Rodriguez-Prado, A. Ferret and S. Calsamiglia (2010). A screening test of the use of essential oils compounds on ryegrass silage for preventing nitrogen losses in sustainable dairy production systems. 3rd EAAP International symposium on energy and protein metabolism and nutrition Parma, Italy, 6-10 September 2010

➤ *Oral presentations in International conferences*

1. Foskolos A. (2017) Mejora de la eficiencia del uso del nitrógeno de la leche a través del manejo acelerado de la nutrición del ganado lechero. (Improvement of milk nitrogen use efficiency through accelerated nutrition management of dairy cattle). III Jornada FEDNA - ANEMBE sobre nutrición de ruminantes: 55-61, Madrid, Spain
2. Foskolos, A., and Morby, J.M. (2017). The use of high sugar grasses as a strategy to improve nitrogen utilization efficiency: A meta-analysis. British Society of Animal Science Annual Conference, Chester, UK, 26-27 April 2017

3. Foskolos, A., Collao-Saenz, E.A, Higgs, R.J., Ross, D.A., Recktenwald, E.B. and Van Amburgh, M.E. (2014). The New Version of The Cornell Net Carbohydrate and Protein System: Updates and Evaluation. Modelling Nutrient Digestion and Utilization in Farm Animals, 8<sup>th</sup> International Workshop, Cairns, Australia, 15-17 September 2014
4. Foskolos A., S. Cavini, A. Ferret and S. Calsamiglia (2012). The use of antibodies in order to alter bacterial population in the rumen. 63rd Annual Meeting of the European Federation of Animal Science, Book of abstracts No 18, Bratislava, Slovakia, 27-31 August 2012.
5. Foskolos A, E. Albanell, M. Chrenkova, S. Calsamiglia and M.R. Weisbjerg (2012) Group separation of feedstuffs improves prediction of degradability parameters by NIRS. 63rd Annual Meeting of the European Federation of Animal Science, Book of abstracts No 18, Bratislava, Slovakia, 27-31 August 2012.
6. Foskolos A., S.H. Hileman, A. Getler, R.A. Ehrhardt and Y.V. Boisclair (2011). The role of central leptin signalling in regulating peripheral metabolic adaptations in the sheep. International Oskar Kellner Symposium, Warnemunde, Germany, 9-11 September 2011
7. Foskolos A, E. Albanell, M. Chrenkova, S. Calsamiglia and M.R. Weisbjerg (2010). Prediction of degradability parameters by near infrared reflectance spectroscopy (NIRS). 3rd EAAP International symposium on energy and protein metabolism and nutrition Parma, Italy, 6-10 September 2010.

➤ *Oral presentations in national conferences*

1. Foskolos A, (2020). The use of protected amino acids on dairy cattle nutrition. 2<sup>nd</sup> Workshop on Ruminant Livestock production, Department of Animal Science, University of Thessaly, Tuesday 10th of November 2020, virtual meeting
2. Foskolos A, Karatosidi, L., and Plomaritou, A. (2020). Growth targets of heifers: The Greek reality. 2<sup>nd</sup> Workshop on Ruminant Livestock production, Department of Animal Science, University of Thessaly, Tuesday 10th of November 2020, virtual meeting
3. Foskolos A. (2019). Protein nutrition of dairy cattle. 1<sup>st</sup> Workshop on Ruminant Livestock production, Department of Animal Science, University of Thessaly, Monday 7<sup>th</sup> October 2019, Larisa, Greece.
4. Foskolos A. (2019). Current status of NDF analysis and use on ruminants. 34<sup>th</sup> National Conference of Greek Animal Science Association, Volos, 3-4 October 2019.
5. Foskolos, A., Hanlon, M.E., και Jon Moorby (2018). The effects of total mixed rations differing in starch and NDF digestibility on dairy cow performance. 33<sup>rd</sup>

National Conference of Greek Animal Science Association, Preveza, 3-5 October 2018

6. Foskolos A. and Moorby, J. (2018). Supplementing dairy cow rations with energetic feeds differing in rumen degradation. 33<sup>rd</sup> National Conference of Greek Animal Science Association, Preveza, 3-5 October 2018
7. Foskolos A. (2017). Mitigation of the environmental impact of dairy farming through improved nitrogen use efficiency. 6th Panhellenic Conference of Animal Production Technology, Thessaloniki, 3 February 2017

➤ *Invited speaker – conferences*

1. Foskolos A. (2017) Mejora de la eficiencia del uso del nitrógeno de la leche a través del manejo acelerado de la nutrición del ganado lechero. (Improvement of milk nitrogen use efficiency through accelerated nutrition management of dairy cattle). III Jornada FEDNA - ANEMBE sobre nutrición de ruminantes: 55-61, Madrid, Spain
2. Foskolos A. (2017). Mitigation of the environmental impact of dairy farming through improved nitrogen use efficiency. 6th Panhellenic Conference of Animal Production Technology, Thessaloniki, 3 February 2017

➤ *Invited speaker in seminars of continuous education*

1. AMTS, The Nutritionist Webinar Series, Webinar 10 December 2020: Feeding the dairy goat: from formulation to feeder.
2. AMTS, The Nutritionist Webinar Series, Webinar 12 November 2020: Genetics, nutrition and production systems for dairy goats.
3. NDS workshop, Campogalliano, Modena, Italy 30 November – 2 December 2016: A. CNCPS: Evaluation of the version 6.5, B. Strategies to reduce nitrogen excretion from ruminants, C. Formulating for improved nitrogen and amino acid efficiency

➤ *Organization of scientific meetings*

1. 2<sup>nd</sup> Workshop on Ruminant Livestock production, Department of Animal Science, University of Thessaly, Tuesday 10<sup>th</sup> of November 2020, virtual meeting
2. 1<sup>st</sup> Workshop on Ruminant Livestock production, Department of Animal Science, University of Thessaly, Monday 7<sup>th</sup> of October 2019, Campus Gaipolis, Larisa

➤ *Invited speaker – Scientific meetings*

Έτος	Συνάντηση	Τίτλος
2014	Pacific Northwest Nutrition Conference, Vancouver, British Columbia, 8-9 October 2014	Animal Changes in the Cornell Net Carbohydrate and Protein Model: How low we can drive crude protein in the ration?

---

2016	NDS workshop, Campogalliano, Modena, Italy 30 November – 2 December 2016	<p>A. CNCPS: Evaluation of the version 6.5</p> <p>B. Strategies to reduce nitrogen excretion from ruminants</p> <p>C. Formulating for improved nitrogen and amino acid efficiency</p>
2017	6th Pan-Hellenic Congress in Technology of Animal Production, Thessaloniki, Greece, 3 February 2017	Reducing the environmental impact of the dairy farms through efficient use of nitrogen intake
2017	School Seminar Talk Series, School of Biological Sciences, Queen’s University of Belfast, 6 March 2017	CowficieNcy: How can we improve nitrogen efficiency of dairy cattle?
2017	Italian Society of Buiatrics, Seminar: “Il bilancio azotato nella vacca da latte: eccessi e carenze e loro ripercussioni su produzione, fertilità edambiente”, Cremona on April 20 <sup>th</sup> 2017	Nitrogen balance and use efficiency in dairy cattle.
2017	III Jornada FEDNA - ANEMBE sobre nutrición de ruminates, 6 November 2017, Madrid, Spain	Mejora de la eficiencia del uso del nitrógeno de la leche a través del manejo acelerado de la nutrición del ganado lechero.
2018	Department Seminar, University of Parma, 14 February 2018	CowficieNcy project: towards the improvement of the efficiency of nitrogen utilisation in dairy cattle

---

➤ *Member of organization committees of international conferences*

Vice-president of the Cattle Commission of the European Federation of Animal Science (EAAP) από το 2019. Organization and chairman: 71<sup>st</sup> Annual Meeting of European Federation of Animal Science

➤ *Special issue editor*

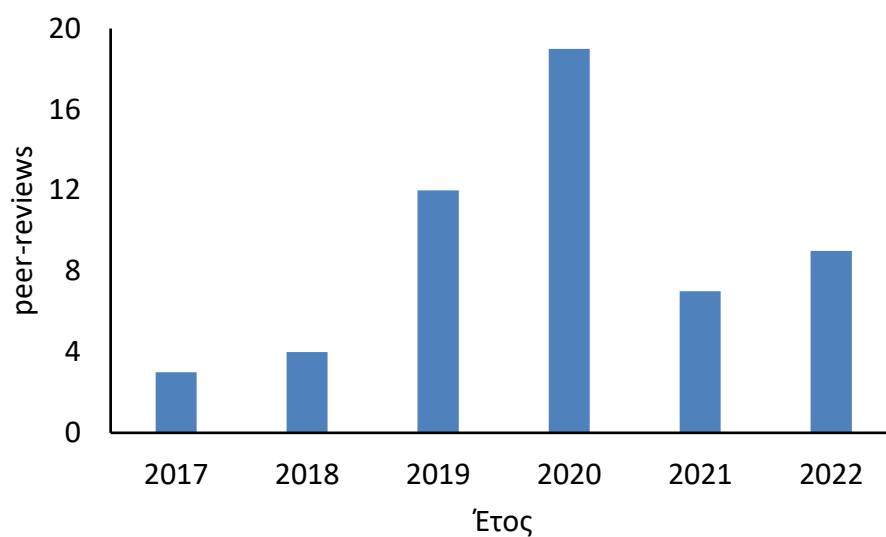
Animals, Special Issue "The Responsiveness of the Dairy Cattle Sector to Societal Challenges",

➤ *Reviewer in scientific journals*

List of Journals:

1. Animal
2. Animals
3. Animal Feed Science and Technology
4. Grass and Forage Science

5. Italian Journal of Animal science
6. Journal of Dairy Science
7. Journal of Endocrinology
8. Livestock Science
9. Mathematics
10. Plos One
11. Sustainability



**Figure 2.** Reviews per year (recording: Publons.com).

➤ *Citations*

Source: Google Scholar

	<b>Total</b>	<b>Since 2018</b>
Citations	745	617
h-index	13	13
I10-index	17	16

➤ *Cumulative impact factor of scientific publications*

114.3 (4,96/ paper)