



UNIVERSITÀ
DEGLI STUDI DI BARI
ALDO MORO



Vincenzo TUFARELLI

CURRICULUM VITAE

PERSONAL DETAILS

Born: Taranto (Italy) 13th November, 1980

Citizenship: Italian

Home address: Largo San Benedetto 13, Valenzano 70010, Italy

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Education and Academic Position

2010 – to date	Research Fellow in Animal Nutrition at the University of Bari “Aldo Moro”, Faculty of Veterinary Medicine, Italy;
a.y. 2009	Ph.D. in “Hygiene, Public Health and Food Control” (area of specialization: <i>Animal and Feed Science</i>) at University of Bari, Faculty of Veterinary Medicine, Italy. Thesis: <i>Nutritional Evaluation of Durum Wheat Middlings in Poultry Diet</i> ;
a.y. 2006	Professional Qualification as Veterinarian (DVM);
a.y. 2006	University degree (5 years) in Veterinary Medicine at University of Bari, Italy.

Language Knowledge

- **Italian:** Mother tongue
- **English:** TOEFL (*iBT*) Test of English as a Foreign Language Certificate

Scientific Activity

The research activity conducted by Dr. Vincenzo Tufarelli started at the Faculty of Veterinary Medicine, University of Bari, under the supervision of Prof. Vito Laudadio (Prof. in Animal Nutrition). During the preparation of his thesis degree, Dr. Vincenzo Tufarelli focused his attention in the field of nutrition and feeding of poultry and, in particular, on the effects of diets with different feed form and exogenous enzymes supplementation (xylanase, β -glucanase, phytase, etc.) on poultry performance. The experimental work was supported by Roche Vitamins® and it brought to a conclusion with a thesis dissertation entitled: Effect of xylanase supplementation and particle-size on performance of guinea fowl fed wheat-based diets, with supervisor Prof. Vito Laudadio and Prof. Dario Cataldo (Prof. in Animal Breeding and Genetics).

After the degree in veterinary medicine, dr. Vincenzo Tufarelli continued to carry out research at the Laboratory of Animal Nutrition at the Department of Animal Health and Welfare, acquiring the techniques for chemical analysis of feeds for livestock species. He took part to many research collaborations, even with other international research institutions, in the field of feed quality, through the use of analytical equipments, such as HPLC, gas chromatograph and atomic absorption spectrophotometry and *in vitro* gas production. He acquired the methodologies for the determination of nutrients in feed and animal products (meat, milk, eggs), such as Kjeldahl, Soxhlet, Weende and Van Soest and the evaluation of the diet digestibility using *in vitro* incubation. To date, the research topics of Dr. Vincenzo Tufarelli mainly focused on the study of the quality of diets for livestock species, with particular reference to: the effects of feed technology in poultry feeding; the use feed by-products in sheep and goat feeding; the use of wheat and its by-products in poultry nutrition; the influence of feed particle size on poultry and rabbit performance; the use of protein sources in poultry nutrition and meat quality. The results of these trials have been published in scientific journals with impact factor and presented in international conferences. He obtained the certificate of attendance of “*Statistics in Animal Science*” at University of Perugia (Italy) organised by ASPA (Italian Scientific Association of Animal Production), and the Advanced Course in “*Poultry Production in Warm Climates*”, organized by the Mediterranean Agronomic Institute of Zaragoza (Spain), International Centre for Advanced Mediterranean Agronomic Studies.

Since the academic year 2008/2009 to date, as research fellow, dr. Vincenzo Tufarelli makes cycles of lessons of Animal Nutrition and Feed Science at the Faculty of Veterinary Medicine of Bari for undergraduate and postgraduate students. He recently received the Italian Professorship Qualification as Associate Professor for the sector 07/G1 (Animal Science and Technology).

Other Scientific Activities:

Refereeing

Dr. Vincenzo Tufarelli is serving as reviewer for many indexed journals:

- *Journal of Dairy Science*
- *Animal Feed Science and Technology*
- *Journal of Animal Science*
- *Journal of Dairy Research*
- *Food Chemistry*

- *Asian-Australasian Journal of Animal Sciences*
- *Poultry Science*
- *World's Poultry Science Journal*
- *Meat Science*
- *Small Ruminant Research*
- *Journal of Animal Physiology and Animal Nutrition*
- *Italian Journal of Animal Science*
- *Tropical Animal Health and Production*
- *Biological Trace Elements Research*
- *African Journal of Biotechnology*
- *Animal Reproduction Science*
- *Animal Production Science*

Editorial Boards and Editorships

- *Research Opinions in Animal and Veterinary Sciences*
- *African Journal of Biotechnology*
- *Vitamins & Minerals*
- *Iranian Journal of Applied Animal Science*
- *Malaysian Journal of Animal Science*
- *Advances in Animal and Veterinary Sciences*
- *American Journal of Experimental Agriculture* (Editor-in-Chief)

Memberships

- *Poultry Science Association*
- *American Society of Animal Science.*

Research grants

Completed

Italian Ministry MiPAAF- CRA-PCM - "Allevamento dello yak per il recupero delle aree marginali: studio dell'adattamento e valutazione delle caratteristiche dei prodotti - YAK" (*Yak breeding for the recovery of marginal areas: study of adaptation and evaluation of products*)

Duration: 12 months; Role: Investigator (€ 60,000)

Apulia Region (Italy), P.O. PUGLIA 2007-2013 Linea 1.1 Azione 1.1.2 Bando Aiuti agli Investimenti della Ricerca per le PMI – “Valorizzazione del farinaccio di grano duro nell'alimentazione delle specie avicole mediante tecniche mangimistiche innovative” (*Enhancement of the middlings of durum wheat in the diet of poultry using innovative milling techniques*)

Duration: 18 months; Role: Investigator (€ 90,000)

On-going

Apulia Region (Italy), Progetto Regione Puglia, Università degli Studi di Bari e CNR-IRSA

"Programma integrato per la prevenzione e la riduzione dell'inquinamento da nitrati di allevamenti avicoli" (*Integrated program for the prevention and reduction of nitrate pollution from poultry farms*).

Duration: 24 months; Role: Investigator (€ 110,000)

International Collaborations: Department of Agricultural Sciences, Tennessee State University, Nashville, USA; Department of Botany and Microbiology, Faculty of Science, Minia University, Minia, Egypt; Department of Animal Science, Rasht Branch, Islamic Azad University, Rasht, Iran; Department of Animal Health, The University of Agriculture, Peshawar, Pakistan; Indian Veterinary Research Institute (IVRI) Izatnagar, Bareilly, Uttar Pradesh, India.

Publications

(Scopus Author ID: 24282077900; *h*-index: 13; at April 25, 2016)

Tufarelli, V., Ceci, E., & Laudadio, V. (2015). 2-Hydroxy-4-Methylselenobutanoic Acid as New Organic Selenium Dietary Supplement to Produce Selenium-Enriched Eggs. *Biological Trace Element Research*, 1-6. Doi: 10.1007/s12011-015-0548-4

Tufarelli, V., Bozzo, G., Perillo, A., & Laudadio, V. (2015). Effects of feeding different lipid sources on hepatic histopathology features and growth traits of broiler chickens. *Acta Histochemica*. 117: 780–783.

Deng, Y. F., Di Liao, X., Wang, Y., Liang, J. B., & **Tufarelli, V.** (2015). Prebiotics mitigate in vitro sulfur-containing odour generation in caecal content of pigs. *Italian Journal of Animal Science*, 14(1). Doi: 10.4081/ijas.2015.3762

Tufarelli, V., Laudadio, V., & Casalino, E. (2015). An extra-virgin olive oil rich in polyphenolic compounds has antioxidant effects in meat-type broiler chickens. *Environmental Science and Pollution Research*, 1-8. Doi: 10.1007/s11356-015-5852-1

Jahromi M.F., Altaher, Y.W., Shokryazdan, P., Ebrahimi, R., Ebrahimi, M., Idrus, Z., **Tufarelli, V.**, & Liang, J.B. (2015). Dietary supplementation of a mixture of Lactobacillus strains enhances performance of broiler chickens raised under heat stress conditions. *International Journal Of Biometeorology*, 1-12. Doi: 10.1007/s00484-015-1103-x

Tufarelli, V., Lacalandra, G. M., & Laudadio, V. (2015). Reproductive and Metabolic Responses of Early-lactating Dairy Cows Fed Different Dietary Protein Sources. *Reproduction in Domestic Animals*. Doi: 10.1111/rda.12566.

Tufarelli, V., Demauero R., & Laudadio, V. (2015). Dietary Micronized-Dehulled White Lupin (*Lupinus albus* L.) in Meat-Type Guinea Fowls and Its Influence on Growth Performance, Carcass Traits and Meat Lipid Profile. *Poultry Science*. Doi: 10.3382/ps/pev218

Puvača, N., Kostadinović, L., Popović, S., Lević, J., Ljubojević, D., **Tufarelli, V.**, ... & Lukač, D. (2015). Proximate composition, cholesterol concentration and lipid oxidation of meat from

chickens fed dietary spice addition (*Allium sativum*, *Piper nigrum*, *Capsicum annum*). *Animal Production Science*. Doi: 10.1071/AN15115.

- Rezaei S., Jahromi M.F., Liang J.B., Zulkifli I., Farjam A.S., Laudadio V., & **Tufarelli V.** (2015). Effect of Oligosaccharides Extract from Palm Kernel Expeller on Growth Performance, Gut Microbiota and Immune Response in Broiler Chickens. *Poultry Science*. Doi: 10.3382/ps/pev216.
- Tufarelli, V.**, Selvaggi, M., Dario, C., & Laudadio, V. (2015). Genetically Modified Feeds in Poultry Diet: Safety, Performance, and Product Quality. *Critical Reviews in Food Science and Nutrition*, 55(4), 562-569.
- Laudadio, V., Ceci, E., Lastella, N. M., & **Tufarelli, V.** (2015). Dietary high-polyphenols extra-virgin olive oil is effective in reducing cholesterol content in eggs. *Lipids in Health and Diseases*, 14(1), 1-7.
- Chen, W. L., Liang, J. B., Jahromi, M. F., Abdullah, N., Ho, Y. W., & **Tufarelli, V.** (2015). Enzyme Treatment Enhances Release of Prebiotic Oligosaccharides from Palm Kernel Expeller. *BioResources*, 10(1), 196-209.
- Aziz Mousavi, S. M. A., Seidavi, A. R., Dadashbeiki, M., Kilonzo-Nthenge, A., Nahashon, S. N., Laudadio, V., & **Tufarelli, V.** (2015). Effect of a synbiotic (Biomim® IMBO) on growth performance traits of broiler chickens. *European Poultry Science*, 79, 1-15.
- Boonyapakdee, A., Pootangon, Y., Laudadio, V., & **Tufarelli, V.** (2015). Astaxanthin extraction from golden apple snail (*Pomacea canaliculata*) eggs to enhance colours in fancy carp (*Cyprinus carpio*). *Journal of Applied Animal Research*, 43: 291-294.
- Maneerat, W., Prasanpanich, S., Tumwasorn, S., Laudadio, V., & **Tufarelli, V.** (2015). Evaluating agro-industrial by-products as dietary roughage source on growth performance of fattening steers. *Saudi Journal of Biological Sciences*, doi:10.1016/j.sjbs.2015.01.015
- Pourhossein, Z., Qotbi, A. A. A., Seidavi, A., Laudadio, V., Centoducati, G., & **Tufarelli, V.** (2015). Effect of different levels of dietary sweet orange (*Citrus sinensis*) peel extract on humoral immune system responses in broiler chickens. *Animal Science Journal*, 86(1), 105-110.
- Matitaputty, P. R., Wijaya, C. H., Bansil, H., Laudadio, V., & **Tufarelli, V.** (2015). Influence of duck species and cross-breeding on sensory and quality characteristics of Alabio and Cihateup duck meat. *CyTA-Journal of Food*, DOI:10.1080/19476337.2015.1011239
- Khan, Z. I., Ahmad, K., Ashraf, M., Naqvi, S. A. H., Seidavi, A., Akram, N. A., & **Tufarelli, V.** (2015). Evaluating pasture and soil allowance of manganese for Kajli rams grazing in semi-arid environment. *Tropical Animal Health and Production*, 47(3), 563-566.
- Laudadio, V., Lorusso, V., Lastella, N. M. B., Dharna, K., Karthik, K., Tiwari, R., & **Tufarelli, V.** (2015). Enhancement of Nutraceutical Value of Table Eggs Through Poultry Feeding Strategies. *International Journal of Pharmacology*, 11(3), 201-212.

- Barakat, N.A.M., El-Gawad, A.M.A., Laudadio V, Kabiell, H.F., **Tufarelli, V.**, Cazzato, E. (2014). A contribution to the ecology and floristic markers of plant associations in different habitats of Sinai Peninsula, Egypt. *Rendiconti Lincei. Scienze Fisiche e Naturali*, ISSN: 2037-4631
- Barakat, N.A.M., Cazzato, E., Nedjimi, B., Kabiell, H.F., Laudadio V, **Tufarelli, V.** (2014). Ecophysiological and species-specific responses to seasonal variations in halophytic species of the chenopodiaceae in a Mediterranean salt marsh. *African Journal of Ecology*, ISSN: 0141-6707
- Cazzato, E., Laudadio V, Ceci, E., **Tufarelli, V.** (2014). Effect of sulphur fertilization on fatty acid composition of faba bean (*Vicia faba* L.), white lupin (*Lupinus albus* L.) and pea (*Pisum sativum* L.) grains. *Journal of Food, Agriculture & Environment*, 12 (3&4), 136-138.
- Laudadio V, Ceci, E., Lastella, N.M.B., Introna, M., Tufarelli, V. (2014). Low-fiber alfalfa (*Medicago sativa* L.) meal in the laying hen diet: Effects on productive traits and egg quality. *Poultry Science*, ISSN: 1525-3171
- Laudadio V., Bastoni E., Introna M., **Tufarelli V.** (2013). Production of low-fiber sunflower (*Helianthus annuus* L.) meal by micronization and air classification processes. *CyTA - Journal of Food*. 11, 398-403.
- Tufarelli V.**, Introna M., Cazzato E., Mazzei D., Laudadio V. (2013). Suitability of partly destoned exhausted olive cake as byproduct feed ingredient for lamb production. *Journal of Animal Science*. 91 (2), 872-877.
- Barakat, N., Laudadio, V., Cazzato, E., **Tufarelli, V.** (2013). Antioxidant Potential and Oxidative Stress Markers in Wheat (*Triticum aestivum*) Treated with Phytohormones under Salt-Stress Condition. *International Journal of Agriculture and Biology*, 15(5), 843-849.
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- Barakat, N. A., Laudadio, V., Cazzato, E., & Tufarelli, V. (2013). Potential Contribution of *Retama raetam* (Forssk.) Webb & Berthel as a Forage Shrub in Sinai, Egypt. *Arid Land Research and Management*, 27(3), 257-271.
- Poorghasemi M., Seidavi A., Qotbi A.A., Laudadio V., **Tufarelli V.** (2013). Influence of dietary fat source on growth performance responses and carcass traits of broiler chicks. *Asian-Australasian Journal of Animal Sciences*. 26(5), 705-710.

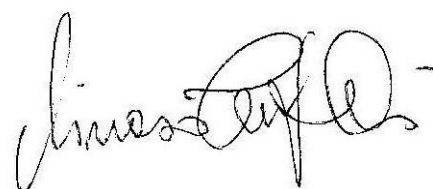
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- Cazzato E., **Tufarelli V.**, Ceci E., Stellacci A.M., Laudadio V. (2012). Quality, yield and nitrogen fixation of faba bean seeds as affected by sulphur fertilization. *Acta Agriculturae Scandinavica, Section B - Soil & Plant Science*, 62 (8), 732-738.
- Khan, R.U., Naz, S., Nikousefat, Z., Selvaggi, M., Laudadio, V., **Tufarelli, V.** (2012). Effect of ascorbic acid in heat-stressed poultry. *World's Poultry Science Journal*, 68 (3) , pp. 477-489.
- Cazzato E., Laudadio V., Stellacci A.M., Ceci E., **Tufarelli V.** (2012). Influence of sulphur application on protein quality, fatty acid composition and nitrogen fixation of white lupin (*Lupinus albus* L.). *European Food Research and Technology*. 235 (5), 963-969.
- Khan, R.U., Nikousefat, Z., **Tufarelli, V.**, Naz, S., Javdani, M., Laudadio, V. (2012). Garlic (*Allium sativum*) supplementation in poultry diets: Effect on production and physiology. *World's Poultry Science Journal*, 68 (3) , pp. 417-424.
- Laudadio V., **Tufarelli V.** (2012). Effect of treated field pea (*Pisum sativum* L. cv Spirale) as substitute for soybean meal in a wheat middlings-based diet on egg production and quality of early laying brown hens. *Archiv für Geflügelkunde*. 76 (1), 1-5.
- Tufarelli, V.**, Khan, R.U., Mazzei, D., Laudadio, V. (2012). Performance and carcass measurements of ewe lambs reared in a feedlot and fed wheat (*Triticum durum* Desf.) middlings total mixed rations in the summer season. *Tropical Animal Health and Production* 44 (4), 779-784.
- Laudadio V., **Tufarelli V.** (2012). Micronized-dehulled lupin (*Lupinus albus* L. cv. Multitalia) as the main protein source for broilers: Influence on growth performance, carcass traits and meat fatty acid composition. *Journal of the Science of Food and Agriculture*. 91 (11), 2081-2087.
- Khan, R.U., Laudadio, V., **Tufarelli, V.** (2012). Semen traits and seminal plasma biochemical parameters in white leghorn layer breeders. *Reproduction in Domestic Animals* 47 (2), 190-195.
- Khan, R.U., Rahman, Z.U., Nikousefat, Z., Javdani, M., **Tufarelli, V.**, Dario, C., Selvaggi, M., Laudadio, V. (2012). Immunomodulating effects of vitamin E in broilers. *World's Poultry Science Journal* 68 (1), 31-40.
- Tufarelli, V.**, Khan, R.U., Laudadio, V. (2012). Evaluating the suitability of field beans as a substitute for soybean meal in early-lactating dairy cow: Production and metabolic responses. *Animal Science Journal* 83 (2), 136-140.
- Khan, R.U., Naz, S., Javdani, M., Nikousefat, Z., Selvaggi, M., **Tufarelli, V.**, Laudadio, V. (2012). The use of Turmeric (*Curcuma longa*) in poultry feed. *World's Poultry Science Journal* 68 (1), 97-103.

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- Khan R.U., S. Naz, Z. Nikousefat, **V. Tufarelli**, M. Javdani, M.S. Qureshi, Laudadio V. (2012). Potential applications of ginger (*Zingiber officinale*) in poultry diets. *World's Poultry Science Journal*, 68(2) 245-252.
- Laudadio, V; Dambrosio, A; Normanno, G; Khan, RU; Naz, S; Rowghani, E; **Tufarelli, V.** (2012). Effect of reducing dietary protein level on performance responses and some microbiological aspects of broiler chickens under summer environmental conditions. *Avian Biology Research* 5(2) 88-92.
- Laudadio, V., Passantino, L., Perillo, A., Lopresti, G., Passantino, A., Khan, R.U., **Tufarelli, V.** (2012). Productive performance and histological features of intestinal mucosa of broiler chickens fed different dietary protein levels. *Poultry Science* 91 (1), 265-270.
- Tufarelli, V.**, Naz, S., Khan, R.U., Mazzei, D., Laudadio, V. (2012). Milk quality, manufacturing properties and blood biochemical profile from dairy cows fed peas (*Pisum sativum* L.) as dietary protein supplement. *Archiv fur Tierzucht* 55 (2), 132-139.
- Erjaei K., Zali A., Ganjkanloo M., Dehghan-Banadaky M., **Tufarelli V.**, Laudadio V. (2012) Effects of wheat processing and dietary fat sources on performance, ruminal and blood parameters, and steak fatty acids profile of Holstein steers. *Livestock Science* 149: 74–82.
- Cazzato E., Laudadio V. and **V. Tufarelli** (2012) Effects of harvest period, nitrogen fertilization and mycorrhizal fungus inoculation on triticale (*×Triticosecale* Wittmack) forage yield and quality. *Renewable Agriculture and Food Systems*, 27 (4) , 278-286.
- Tufarelli V.**, G.M. Lacalandra, G. Aiudi, F. Binetti and V. Laudadio (2011). Influence of feeding level on live body weight and semen characteristics of Sardinian rams reared under intensive conditions. *Tropical Animal Health and Production* 43, 339-345
- Tufarelli V.** and Laudadio V. (2011). Effect of wheat middlings-based total mixed ration on milk production and composition responses of lactating dairy ewes. *Journal of Dairy Science*. 94, 376-81
- Tufarelli V.** and Laudadio V. (2011). Dietary Supplementation with Selenium and Vitamin E Improves Milk Yield, Composition and Rheological Properties of Dairy Jonica Goats. *Journal of Dairy Research*. 78 (2), 144-148.
- Laudadio V., Ceci E., **Tufarelli V.** (2011). Productive traits and meat fatty acid profile of broiler chickens fed diets containing micronized faba beans (*Vicia faba* L. var. minor) as the main protein source. *Journal of Applied Poultry Research*. 20, 12-20.
- Laudadio V., **Tufarelli V.** (2011). Pea (*Pisum sativum* L.) Seeds as an Alternative Dietary Protein Source for Broilers: Influence on Fatty Acid Composition, Lipid and Protein Oxidation of Dark and White Meats. *Journal of the American Oil Chemists' Society*. 88 (7), 967-973.

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- Cazzato, E., Laudadio, V., Corleto, A., **Tufarelli, V.** (2011). Effects of harvest date, wilting and inoculation on yield and forage quality of ensiling safflower (*Carthamus tinctorius* L.) biomass. *Journal of the Science of Food and Agriculture* 91 (12), 2298-2302.
- Khan, R.U., Naz, S., Nikousefat, Z., **Tufarelli, V.**, Javdani, M., Rana, N., Laudadio, V. (2011). Effect of vitamin E in heat-stressed poultry. *World's Poultry Science Journal* 67 (3), 469-478.
- Tufarelli, V.**, Khan, R.U., Laudadio, V. (2011). Effect on milking performance of vitamin-trace element supplements to early lactation Italian brown cows grazing ryegrass (*Lolium multiflorum*) pasture. *Asian-Australasian Journal of Animal Sciences* 24 (9), 1227-1232.
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- Tufarelli, V.**, E. Cazzato, A. Ficco, V. Laudadio. (2010). Assessing nutritional value and in vitro digestibility of Mediterranean pasture species using yak (*Bos grunniens*) faeces as alternative microbial inoculum in a Daisy^{II} incubator. *Journal of Food, Agriculture & Environment* 8: 477-481.
- Laudadio V., **Tufarelli V.** (2010). Effects of pelleted total mixed rations with different rumen degradable protein on milk yield and composition of Jonica dairy goat. *Small Ruminant Research* 90: 47–52.
- Tufarelli V.**, L. Valentini, M. Dario and V. Laudadio. (2010). Effect of n-3 and n-6 polyunsaturated fatty acids on hare reproductive performances. *Animal* 4-5: 763–766.
- Tufarelli V.**, S. Desantis, S. Zizza and V. Laudadio. (2010). Performance, gut morphology and carcass characteristics of fattening rabbits as affected by particle size of pelleted diets. *Archives of Animal Nutrition*. 64, 373–382.
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- Tufarelli V.**, Dario M., Laudadio V. (2009). Milk yield and composition of lactating Comisana ewes fed total mixed rations containing nitrogen sources with different ruminal degradability. *Livestock Science*. 122: 349-353.
- Laudadio V., **Tufarelli V.**, Dario M., Hammadi M., Seddik M.M., Lacalandra G.M., Dario C. (2009). A survey on chemical and nutritional characteristics of halophytes plants used by camels in Southern Tunisia. *Tropical Animal Health and Production*. 41 (2): 209-215.
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Signature

A handwritten signature in black ink, appearing to read 'Dario M. Tufarelli', with a horizontal line extending from the end of the signature.