

# **Dr. Federica Raspa**

## **Actual position**

- 01/02/2023 - Present  
Junior Assistant Professor  
Department of Veterinary Sciences, University of Turin  
Project: NODES. SPOKE 2: Green Technologies and sustainable industry  
Scientific Disciplinary Sector: AGR/18 Animal Nutrition and Feeding  
Supervisor: Prof. Emanuela Valle

## **Qualifications**

- 29/10/2015  
Degree in Veterinary Medicine  
Department of Veterinary Sciences, University of Turin  
Thesis: "Assessment of the nutritional status of healthy lactating donkeys (*Equus asinus*) by an integrated approach as a tool for breeding management",  
Score: 110/110 with honour
- 26/11/2015  
Professional qualification to the veterinary profession with points 100/120
- 5/07/2022  
PhD with honor in Veterinary Sciences for Animal Health and Food Safety  
Thesis: "Integrated approach to the evaluation of the welfare and management in the equine meat farm"

## **Activities**

The activity of Dr. Federica Raspa in the Department of Veterinary Sciences is mainly focused on research in the field of animal welfare and animal nutrition.

- Relationship between milk composition, metabolic profile, welfare status, and body condition score in dairy donkeys
- Milk quality assessment of donkey milk for children affected by cow milk protein allergy (CMPA)
- Welfare assessment of horses reared for meat production with particular reference to the effects of high vs low starch diets on animal production, behavior, welfare, gut health (study of the volatile fatty acids, microbiota, histo-morphology of the intestinal wall)
- Evaluation of different slow feeding devices to improve the welfare and management of the feeding consumption time of ponies.
- Assessment of the welfare of local breed horses kept on pasture to increase sustainability and biodiversity
- Collaboration with the nutritional consulting service of the Veterinary Teaching hospital: diet formulation for equine species

## **Working experience and scientific awards**

- 01/01/2022 – 31/12/2022  
Research fellowship  
Department of Veterinary Sciences, University of Turin  
Project entitled: "Use of local chicken breeds in alternative production chain: welfare, quality and sustainability"

Scientific Disciplinary Section: AGR/17 General Animal Breeding and Genetic Improvement

Supervisor: Prof. Dominga Soglia

- EAAP Scholarship winner at the 72nd Annual Meeting of the European Association for Animal Science in Davos, Switzerland, from 30 August to 3 September 2021 with the work: "Influence of two feeding managements on behaviour and welfare in horses reared for meat production"

- 1/02/2020 – 16/03/2020

Period abroad

Institute of Animal Nutrition, Nutrition Diseases and Dietetics Faculty of Veterinary Medicine, University of Leipzig

Topic: feeding management of horse, laboratory analyses on hay and feedstuffs, research activity

Supervisor: Prof. Ingrid Vervuert

- 1/10/2018 – 31/12/2021

Research Doctorate in Veterinary Sciences for Animal Health and Food Safety

Department of Veterinary Sciences, University of Turin (Italy)

Supervisor: Prof. Emanuela Valle

- 15/04/2016 – 30/09/2018

Private Veterinarian Practitioner

- 1/01/2016 – 31/07/2016

Doctor student

Department of Veterinary Sciences of the University of Turin

Topic: collaborations in research projects in the field of donkey nutrition and donkey milk quality. Diet formulation and feeding management of donkeys

Supervisor: Prof. Emanuela Valle

- 28/05/2014 – 26/06/2014

Participation to the CNR Short Mobility Program

ISPA-CNR, Istituto di Scienze delle Produzioni Alimentari Largo Paolo Braccini 2, 10095, Grugliasco

Project entitled: "Relationship between milk composition, metabolic profile, welfare status, and body condition score in dairy donkeys"

Supervisors: Dr. Laura Cavallarin (ISPA-CNR), Prof. Amy McLean (University of California, Davis)

### **Scientific publications on ISI Journals**

1. Colombino, E.; Raspa, F.; Perotti, M.; Bergero, D.; Vervuert, I.; Valle, E.; Teresa Capucchio, M. Gut health of horses: effects of high fibre vs high starch diet on histological and morphometrical parameters. BMC Vet. Res. 2022, 18, 1–9.

2. Raspa F., Tarantola M, Muca E, Bergero D, Soglia D, Cavallini D, et al. Does Feeding Management Make a Difference to Behavioural Activities and Welfare of Horses Reared for Meat Production? Animals. 2022; 12:1740. doi:10.3390/ANI12141740.

3. Raspa, F.; Vervuert, I.; Capucchio, M.T.; Colombino, E.; Bergero, D.; Forte, C.; Greppi, M.; Cavallarin, L.; Giribaldi, M.; Antoniazzi, S.; et al. A high-starch vs. high-fibre diet: effects on the gut environment of the different intestinal compartments of the horse digestive tract. BMC Vet. Res. 2022 181, 2022, 18, 1–11.

4. Cavallini, D.; Penazzi, L.; Valle, E.; Raspa, F.; Bergero, D.; Formigoni, A.; Fusaro, I. When Changing the Hay Makes a Difference: A Series of Case Reports. *J. Equine Vet. Sci.* 2022, 113, 103940.
5. Raspa, F.; Dinardo, F.R.; Vervuert, I.; Bergero, D.; Bottero, M.T.; Pattono, D.; Dalmaso, A.; Vinassa, M.; Valvassori, E.; Bruno, E., De Palo, P.; Valle, E. A Fibre- vs. cereal grain-based diet: Which is better for horse welfare? Effects on intestinal permeability, muscle characteristics and oxidative status in horses reared for meat production. *Journal of Animal Physiology and Animal Nutrition.* 2021, 00, 1–14.
6. Raspa, F.; Roggero, A.; Palestini, C.; Canavesio, M.M.; Bergero, D.; Valle, E. Studying the Shape Variations of the Back, the Neck, and the Mandibular Angle of Horses Depending on Specific Feeding Postures Using Geometric Morphometrics. *Animals.*, 2021, 1–15.
7. Tassone, S.; Fortina, R.; Valle, E.; Cavallarin, L.; Raspa, F.; Boggero, S.; Bergero, D.; Giammarino, M.; Renna, M. Comparison of In Vivo and In Vitro Digestibility in Donkeys. *Animals.*, 2020, 10, 2100.
8. Raspa, F.; Tarantola, M.; Bergero, D.; Nery, J.; Visconti, A.; Mastrazzo, C.M.; Cavallini, D.; Valvassori, E.; Valle, E. 2020. Time-Budget of Horses Reared for Meat Production: Influence of Stocking Density on Behavioural Activities and Subsequent Welfare. *Animals.*, 2020, 10, 1334.
9. Raspa, F.; Tarantola, M.; Bergero, D.; Bellino, C.; Mastrazzo, C.M.; Visconti, A.; Valvassori, E.; Vervuert, I.; Valle, E. 2020. Stocking Density Affects Welfare Indicators in Horses Reared for Meat Production. *Animals.*, 2020, 10, 1103.
10. Vinassa, M.; Cavallini, D.; Galaverna, D.; Baragli P.; Raspa F.; Nery, J.; Valle, E. Palatability assessment in horses in relation to lateralization and temperament. *Applied animal behaviour science.*, 2020, 232.
11. Raspa, F.; Cavallarin, L.; McLean, A. K.; Bergero, D.; Valle, E., 2019: A Review of the Appropriate Nutrition Welfare Criteria of Dairy Donkeys: Nutritional Requirements, Farm Management Requirements and Animal-Based Indicators. *Animals.*, 9, 315.
12. Dezzutto, D.; Barbero, R.; Valle, E.; Giribaldi, M.; Raspa, F.; Biasato, I.; Cavallarin, L.; Bergagna, S.; McLean, A.; Gennero, M. S., 2018: Observations of the Hematological, Hematochemical, and Electrophoretic Parameters in Lactating Donkeys (*Equus asinus*). *Journal of Equine Veterinary Science.*, 65, 1–5.
13. Valle, E.; Raspa, F.; Giribaldi, M.; Barbero, R.; Bergagna, S.; Antoniazzi, S.; Mc Lean, A. K.; Minero, M.; Cavallarin, L., 2017: A functional approach to the body condition assessment of lactating donkeys as a tool for welfare evaluation. *PeerJ.*, 5, e3001