



Roberta Di Prinzio

Born Chieti, Italy

DVM degree with honors in 2018 at the Faculty of Veterinary Medicine of Teramo. She carries out clinical and research activities at the Small Animal Internal Medicine



Giovanni Aste

UNITE tutor

VET 08

Scientific researcher operating activities in the Internal focusing on intensive hospitalized animals and



Liviana Prola

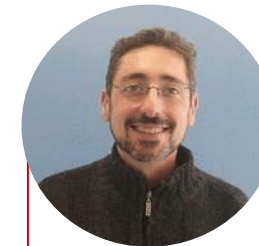
external academic tutor

President of the Italian Society Nutrition. Researcher at the Veterinary Sciences in Turin

Jan Suchodolski

Associate Professor of Small Medicine

Associate Director for Cat & Dog Microbiome



Pet food Project

Dr. Mario Agrillo

Administrator Petfood project srl

Dr. Liviana Prola

Scientific Director

Based in Rome, is a technical-scientific assistance company focused on pet-food, which deals with the design and development of complementary food and feed

Erythrocyte membrane lipidomics in dogs suffering from Sepsis - SIRS (Systemic Inflammatory Response Syndrome): evaluation of potential inflammation markers and development of food strategies

➤ General objectives of the project

- investigate new markers of inflammation during SIRS - Sepsis in dogs, studying the lipid metabolism of the erythrocyte membrane and the faecal microbiome to evaluate its clinical outcomes and therapeutic possibilities related to the use of nutrients or food supplements in early enteral nutrition.
- development of new nutritional and nutraceutical strategies aimed at restoring correct lipid metabolism and the complex microbiota-immune status-gastro-intestinal function relationship, in patients with sepsis or SIRS

➤ Industrial impact of the project

After the first phase of the clinical research project, on the basis of the data obtained, is expected the industrial and technological processing of raw materials and the marketing of the finished product.

Dissemination strategies are planned to involve the scientific world: publication in international journals and industry conferences, events with veterinary doctors, pharmacists and food industry operators for pets.



- *Petfood project* has collaborated in outlining the research protocol, will provide the PhD student with structure, tools and specialized personnel for her training.
- During the period in the company the PhD student will learn to select the raw materials for the formulation of a prototype pet food, to optimize the production processes checking the quality and stability of the food with due regard for technical and legislative aspects
- The research activity of *Petfood project* is focused on the development prototypes in pet nutrition and evaluation the production process. In support of this, there are numerous scientific articles and participations in international conferences. Some of the main papers are mentioned below
 - Cross-contamination in canine and feline dietetic limited-antigen wet diets. Pagani E, Soto Del Rio MLD, Dalmasso A, Bottero MT, Schiavone A, Prola L. BMC Vet Res. 2018 Sep 12;14(1):283. doi: 10.1186/s12917-018-1571-4.
 - Investigation of hallmarks of carbonyl stress and formation of end products in feline chronic kidney disease as markers of uraemic toxins. Valle E, Prola L, Vergnano D, Borghi R, Monacelli F, Traverso N, Bruni N, Bovero A, Schiavone A, Nery J, Bergero D, Odetti P. J Feline Med Surg. 2019 Jun;21(6):465-474.
 - Effect of Cage Type on Fecal Corticosterone Concentration in Buck Rabbits During the Reproductive Cycle. Cornale P, Macchi E, Renna M, Prola L, Perona G, Mimosi A. J Appl Anim Welf Sci. 2016;19(1):90-6. doi: 10.1080/10888705.2015.1072468. Epub 2015 Oct 9.
- The *Petfood project* aims to formulate a new complete or complementary feed to support critical patients. In achieving this goal, the student will gain research and technological development skills in petfood products



Scientific meeting

- Oral presentation ARNA , SISVET Olbia 2019. “Effects of Ribes Pet Symbio® on the canine intestinal microflora and production of short chain fatty acids”
B. Belà, R. Di Prinzio, G. Pignataro, A. Gramenzi, L. De Acetis, J.S. Suchodolski
- Poster presentation ESVCN , Torino 2019. “Effects of Carobin Pet Ultra® on the canine intestinal microflora and production of short-chain fatty acids”
B. Belà, R. Di Prinzio, G. Pignataro, A. Gramenzi, L. De Acetis

Publications

- 2 publication submitted