

## **Doctor Carole CAMBIER, DVM, PhD**

Qualified as responsible for pharmacovigilance  
Member of the Belgian Regulatory Affairs Society  
Member of Association of Veterinary Consultants  
Member of European Association of Veterinary  
Pharmacology and Toxicology

### **Professional career**

**1995:** Diploma in Veterinary Medicine (University of Liège - Belgium)

Research Assistant at the Department of Pharmacology- Pharmacotherapy - Toxicology (University of Liège - Belgium) until 2004.

**1999:** Certificate in pharmacokinetics (workshop of the European College of Veterinary Pharmacology and Toxicology)

**2000:** Certificate in “creation of companies” and “entrepreneurship” (University of Liège - Belgium)

**2001:** Certificate in “rights of contracts” (University of Liège - Belgium)

**2001:** PhD in Veterinary Sciences (University of Liège - Belgium)

**2004:** Creation of PHARNIMAL sprl

### **Professional experience**

- Consultancy for private laboratories (Regulatory Affairs, study design, medical and scientific writing)
- Conduct of pre-clinical and clinical veterinary trials, as investigator and study director
- Co-promotor of Masters in Veterinary Medicine (University of Liège - Belgium)
- Writing of reports and Periodic Safety Update Reports for private industries
- Market research
- Judicial expert appraisements

### **Prices and distinctions**

- Winner of the SmithKline Beecham price for the dissertation: “Serological control of warble infestation (*Hypoderma bovis*): a study of the kinetics of antibodies in naturally infested cattle” (1995).
- Winner of the 1.2.3. Go international price for the project: “Creation of a center for the development of veterinary medicinal products” (2001).

### **Patent**

Medicinal composition and particularly its use in fluidtherapy. WO 02/32393 A2

## **Main publications**

### Pre-clinical studies

- Gustin P., Detry B., Robert A., Cao M.L., Lessire F., Cambier C., Katz V., Ansay M., Frans A. and Clerbaux T. Influence of age and breed on the binding of oxygen to red blood cells of bovine calves. *Journal of Applied Physiology*, 82 : 784-790, 1997.
- Cambier C., Ratz V., Rollin F., Frans A., Clerbaux T. and Gustin P. The effects of hypertonic saline in healthy and diseased animals. *Veterinary Research Communications*, 21 : 303-316, 1997.
- Cambier C., Detry B., Beerens D., Florquin S., Ansay M., Frans A., Clerbaux T. and Gustin P. Effects of hyperchloremia on blood oxygen binding in healthy calves. *Journal of Applied Physiology*, 85 : 1267-1272, 1998.
- Cambier C., Clerbaux T., Detry B., Beerens D., Frans A., and Gustin P. Blood oxygen binding in double-muscled calves and dairy calves with conventional muscle conformation. *American Journal of Veterinary Research*, 61 : 299-304, 2000.
- Cambier C., Clerbaux T., Moreaux B., Detry B., Beerens D., Frans A., and Gustin P. Blood oxygen binding in calves with naturally occurring diarrhoea. *American Journal of Veterinary Research*, 62 : 799-804, 2001.
- Cambier C., Clerbaux T., Detry B., Marville V., Frans A., and Gustin P. Blood oxygen binding in hypoxaemic calves. *Veterinary Research*, 33 : 283-290, 2002.
- Cambier C., Clerbaux T., Amory H., Detry B., Florquin S., Marville V., Frans A., and Gustin P. Mechanisms controlling the oxygen consumption in experimentally induced hypochloremic alkalosis in calves. *Veterinary Research*, 33 : 697-708, 2002.
- Detry B., Cambier C., Frans A., Gustin P., and Clerbaux T. Calculation of bovine haemoglobin oxygen saturation by algorithms integrating age, haemoglobin content, blood pH, partial pressures of oxygen and carbon dioxide in the blood and temperature. *Veterinary Journal*, 165 : 258-265, 2003.
- Cambier C., Wierinckx M., Clerbaux T., Detry B., Liardet M.-P., Marville V., Frans A. and Gustin P. Haemoglobin oxygen affinity and regulating factors of the blood oxygen transport in canine and feline blood. *Research in Veterinary Science*, 77: 83-88, 2004.
- Cambier C., Di Passio N., Clerbaux T., Amory H., Marville V., Detry B., Frans A. and Gustin P. Blood oxygen binding in healthy standardbred horses. *Veterinary Journal*, 16: 251-256, 2005.
- Kirschvinck N., Leemans J., Delvaux F., Snaps F., Jaspert S., Evrard B., Delattre L., Cambier C., Clercx, C., Gustin P. Inhaled fluticasone reduces bronchial responsiveness and airway inflammation in cats with mild chronic bronchitis. *Journal of Feline Medicine and Surgery*, 8, 45-54, 2006.

### Clinical studies

- Cambier C., Clerbaux T., Detry B., Liardet M.-P., Marville V., Frans A. and Gustin P. Alkalinizing agents and impairments of blood oxygen binding in calves with naturally occurring diarrhoea. *Veterinary record*, 28: 706, 710, 2005.
- Halloy D., Cambier C. and Gustin P. Efficacy of ceftiofur and flunixin in the early treatment of bronchopneumonia in weaners. *Veterinary record*, in press.

### R&D

- Moreaux B., Beerens D., Cambier C., Gustin P. Role of neurokinins, histamine and serotonin on the cough reflex in pigs. *Fundamental and Clinical Pharmacology*, 13/2, p 267, 1999.
- Moreaux B., Beerens D., Nemmar A., Cambier C., Gustin P. Effect of neurokinins and tachykinins and bradykinin receptors antagonists on the cough reflex in pigs. *American Journal of Respiratory and Critical Care Medicine*, 159/3 A 534, March 1999.

### **Continued education**

Update on pharmacovigilance. Belgian Regulatory Affairs Society, Essene, Belgium, September, 28, 2004.

A Regulatory Update on Animal Feed Additives. Management Forum Ltd, London, Great Britain, November, 5, 2004.

Pharmacovigilance for the veterinary industry. Management Forum Ltd, London, Great Britain, November, 16-17, 2004.

Preparing successful EU feed additive applications. Management Forum Ltd, London. Great Britain, March, 17, 2005.