

**Michela CANTIELLO, DVM, PhD**

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## PROFESSIONAL ACTIVITIES

- *November 2020- present*

**Eurofins PSS France - Managing Director:** Manage, lead and coordinate Professional Scientific Services (PSS) teams to ensure that they are operating at the highest quality and productivity standards. Promote high levels of morale and retention by creating a positive work culture. Establish a proactive partnership with the client in order to meet and exceed client expectations.

- *December 2017- October 2020*

**AvogadroLS Managing Director:** responsible for providing strategic leadership for the French and US sites, working with the company Board to establish long-range goals, strategies, plans and policies.

- *October 2014 – October 2020*

**Avogadro LS Inc (former Amatsigroup Inc.) Facility Director:** implementation, complete set-up and development of US operations site in Terre Haute, IN.

### Missions and responsibilities:

- ✓ US CRO development according to GLP/GCP
- ✓ Management of US authorities' inspections (for ex. USDA)
- ✓ Compliance with US legislation, particularly on animal experimentation
- ✓ In site specific processes implementation
- ✓ Management and supervision of R&D projects to ensure the highest levels of customer satisfaction
- ✓ Management of the team (15 persons), resources and activities in line with the company's Business Plan
- ✓ Management of site budget. Contribution to business growth. 2016 Turnover corresponding to 35% of the total (France + US) in-life activity.
- ✓ Launch of new activities for Amatsi Group: clinical studies for vaccine development; ABSL2/BSL2 facility improvement; Coordination with the other Amatsi Group sites.
- ✓ Reporting to CEO. Involvement and contribution in the Group strategy definition

- *January 2009 – October 2014*

**Study Director:** R&D bioanalysis and in-life phase at Amatsi Avogadro (Fontenilles, France). Management of pharmacokinetics studies, residues and TAS (Target Animal Safety) studies. Species studied: rodents, rabbit, dog, cat, farm animals (cattle, sheep, goats, pig and poultry), and non-human primates. GLP (Good Laboratory Practice), FDA studies, performed according the AAALAC accreditation. Deputy Vet Care, deputy IACUC member.

- *February 2007 - December 2008*

**Post-doctoral fellow** at **INSERM U563** (Dr. X. COLLET, Lipoprotein and Lipid Mediators Department). "Intestinal absorption of the liposoluble micronutrients: regulation and interaction".

- *March 2005 - December 2006*

**Lecturer in Pharmacology and Toxicology** (University of Veterinary Medicine of Turin, Italy, Animal Pathology Department). Set-up of a molecular biology laboratory; Research on illicit treatments in farm animal using novel molecular biology tools; Teachings: molecular and cellular pharmacology and toxicology,

ruminant's toxicology; Management of doctoral students; grant writing; Congress organization (2<sup>nd</sup> ECVPT Workshop on Mycotoxins and 10th International Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT), Turin, Italy, 17-22 September 2006).

- *September - December 2004*

**Researcher in Pharmacology and Toxicology** (Pr A. Zaghini, Univ. Vet. Med. of Bologna, Animal Pathology and Veterinary Public Health Department). Analysis of residues of veterinary medicinal products in animal foodstuff. Bioanalysis, HPLC, ELISA.

- *November 2003 – July 2004*

**Researcher in Pharmacology and Toxicology** (Pr M. Dacasto, Univ. Vet. Med of Padua). Molecular biology of the xenobiotic-metabolizing enzymes in cattle.

- *May 2004 – July 2004*

**Researcher in Pharmacology and Toxicology** (Dr T. Pineau, Research institute in Pharmacology and Toxicology, INRA UR66). In collaboration with Pr. Mauro Dacasto, University of Padova, Italia. Funded by a Galileo grant. Development of molecular biology tools for the study of illicit treatment in the bovine species. Molecular biology of the xenobiotic-metabolizing enzymes in cattle.

- *November 1999 – November 2000*

**Scholarship holder in Pharmacology and Toxicology** (Pr A. Zaghini, Univ. Vet. Med. of Bologna). *In-vivo* studies in the rabbit, pig and cattle. Bioanalysis, HPLC.

## TRAINING and DEGREES

- *17<sup>th</sup> February 2020- On-going (Graduation on May 6<sup>th</sup>, 2022)*

**MBA on-line program at the Kelley Business School, Bloomington Indiana.** Selected for a Kelley Direct Scholarship. The scholarship carried with it a remission of \$200 per credit hour of enrollment per term for a total reward amount of 10,800\$.

- *13 March 2018 – 04 October 2019*

**Master Degree in “Executive Profession”, TBS Business School, Toulouse, France.**

- *7-12 July 2016*

**Biosafety and Biosecurity Training Course – Fort Collins, Colorado, USA**

- *8-11 Sep 2014*

**Pharmacokinetic: key role in the pharmaceutical industry** (training) – University of Strasbourg, France

- *Sept 2013*

**Level I (highest) on the Use and Care of Laboratory animals** (School of Vet. Med. of Toulouse, France)

- *December 2000 – October 2003*

**Doctoral fellowship (PhD)** in Pharmacology-toxicology - Basic Science and Veterinary Biotechnology (Pr. M. Dacasto, Univ. Vet. Med. of Turin) « *Effects of illegal treatments on the animal welfare and on the liver metabolizing enzymes in food producing species* ». PK-Tox. Metabolism. Molecular biology.

- January 1998-November 1999

**Preparation and defense of the Veterinary Medicine degree** (Pr. A. Zaghini, Univ. Vet. Med. of Bologna).  
«Research of mycotoxins in the turkey feed ». Bioanalysis, HPLC.

September 1992-January 1998. University academic training at the Univ. Vet. Med. of Bologna, Italy.

September 1991- July 1992. Biological Science training at University of Bologna.

1991. **Bachelor degree** at the Classic Lyceum “Giacomo Leopardi” of Pordenone, Italy.

## RESEARCH ACTIVITIES

- ✓ 12 publications in peer-reviewed international journals (Listed hereafter)
- ✓ 12 oral communications (9 international congresses, 3 national) - 4 as first author
- ✓ 15 posters (7 international congresses, 8 national) - 5 as first author
- ✓ 12 bovine DNA sequences posted on the database GenBank/NCBI
- ✓ 1 book chapter on “Regulatory Pharmacology”, M. Cantiello, C. Nebbia (2008)

## PROFESSIONAL SKILLS

- ✓ Team and resources management
- ✓ Project management, quality assurance (GLP, GCP, AAALAC), regulatory studies
- ✓ Client Management (national / international)
- ✓ Team spirit. Interpersonal skills. Conflict management
- ✓ Expertise on animal health, pharmacology and toxicology of food producing species
- ✓ Skills in both zootechnics and bioanalysis
- ✓ Compliance with the regulations on animal experimentation
- ✓ Results analysis and presentation. Reporting, Study documentation, Publication
- ✓ Self-Discipline, motivation and availability
- ✓ Collective investment (CHSCT: Health and safety committee; CE: Works’ Council; IACUC)
- ✓ Informatic skills (office tools, statistic, bioinformatic, on-line database)

## LANGUAGE SKILLS

Italian: mother tongue; English and French: Fluent (reading, writing and speaking).

## MEMBERSHIP and *Pro Bono* ACTIVITIES

Member of the American Association of Industry Veterinarians

Member of the American Association of Swine Veterinarians

President Elect of the American Academy of Pharmacology and Therapeutics, *pro bono*:

- ✓ Support and promotion of the educations of current and future veterinary professionals
- ✓ Organization of 22nd Biennial Symposium (May 22 - 25, 2022 in Bethesda, MD)

Biosafety Chairperson for LFM Quality Laboratories, Inc. Institutional Biosafety Committee, *pro bono*:

- ✓ Evaluate the projects in term of biosecurity, biosafety, and personnel training
- ✓ Verification and support to update the USDA APHIS Permit, USDA APHIS for importation and transportation of controlled materials and organism and vectors (compliant with the ABSL2 facility)

## PUBLICATIONS

Soayfane Z, Tercé F, Cantiello M, Robenek H, Nauze M, Bézirard V, Allart S, Payré B, Capilla F, Cartier C, Peres C, Al Saati T, Théodorou V, Nelson DW, Yen CL, Collet X, Coméra C. Exposure to dietary lipid leads to rapid production of cytosolic lipid droplets near the brush border membrane. *Nutr Metab (Lond)*. 2016 Jul 28;13:48.

Seyer A, Cantiello M, Bertrand-Michel J, Roques V, Nauze M, Bézirard V, Collet X, Touboul D, Brunelle A, Coméra C. Lipidomic and spatio-temporal imaging of fat by mass spectrometry in mice duodenum during lipid digestion. *PLoS One*. 2013;8(4):e58224. doi: 10.1371/journal.pone.0058224. Epub 2013 Apr 3. PubMed, PMID: 23560035; PubMed Central PMCID: PMC3616127.

Reboul E, Soayfane Z, Goncalves A, Cantiello M, Bott R, Nauze M, Tercé F, Collet X, Coméra C. Respective contributions of intestinal Niemann-Pick C1-like 1 and scavenger receptor class B type I to cholesterol and tocopherol uptake: in vivo v. in vitro studies. *Br J Nutr*. 2012 May;107(9):1296-304. doi: 10.1017/S0007114511004405. Epub 2011 Sep 20. PubMed PMID: 21929836.

Virkel G, Carletti M, Cantiello M, Della Donna L, Gardini G, Girolami F, Nebbia C. Characterization of xenobiotic metabolizing enzymes in bovine small intestinal mucosa. *J Vet Pharmacol Ther*. 2010 Jun 1;33(3):295-303.

Cantiello M, Giantin M, Carletti M, Lopparelli RM, Capolongo F, Lasserre F, Bollo E, Nebbia C, Martin PG, Pineau T, Dacasto M. Effects of dexamethasone, administered for growth promoting purposes, upon the hepatic cytochrome P450 3A expression in the veal calf. *Biochem Pharmacol*. 2009 Feb 1;77(3):451-63. doi: 10.1016/j.bcp.2008.10.025. Epub 2008 Oct 31. PubMed PMID: 19022227.

Cantiello M, Carletti M, Dacasto M, Martin PG, Pineau T, Capolongo F, Gardini G, Nebbia C. Cytochrome P450 inhibition profile in liver of veal calves administered a combination of 17beta-estradiol, clenbuterol, and dexamethasone for growth-promoting purposes. *Food Chem Toxicol*. 2008 Aug;46(8):2849-55. doi: 10.1016/j.fct.2008.05.018. Epub 2008 May 29. PubMed PMID: 18602204.

Giantin M, Carletti M, Capolongo F, Pegolo S, Lopparelli RM, Gusson F, Nebbia C, Cantiello M, Martin P, Pineau T, Dacasto M. Effect of breed upon cytochromes P450 and phase II enzyme expression in cattle liver. *Drug Metab Dispos*. 2008 May;36(5):885-93. doi: 10.1124/dmd.107.019042. Epub 2008 Feb 11. PubMed PMID: 18268077.

Cantiello M, Carletti M, Cannizzo FT, Nebbia C, Bellino C, Pié S, Oswald IP, Bollo E, Dacasto M. Effects of an illicit cocktail on serum immunoglobulins, lymphocyte proliferation and cytokine gene expression in the veal calf. *Toxicology*. 2007 Dec 5;242(1-3):39-51. Epub 2007 Sep 8. PubMed PMID: 17936467.

Carletti M, Cantiello M, Giantin M, Nebbia C, Cannizzo FT, Bollo E, Dacasto M. Serum antioxidant enzyme activities and oxidative stress parameters as possible biomarkers of exposure in veal calves illegally treated with dexamethasone. *Toxicol In Vitro*. 2007 Mar;21(2):277-83. Epub 2006 Sep 14. PubMed PMID: 17055215.

Cantiello M, Giantin M, Nebbia C, Lasserre F, Martin P, Pineau T and Dacasto M. Cloning and sequencing of some relevant drug metabolism genes in cattle: The Programma Galileo 2003 summary report. *Pharmacologyonline*, 3: 66-76, 2005.

Martin PG, Lasserre F, Calleja C, Van Es A, Roulet A, Concordet D, Cantiello M, Barnouin R, Gauthier B, Pineau T. Transcriptional modulations by RXR agonists are only partially subordinated to PPARalpha signaling and attest additional, organ-specific, molecular cross-talks. *Gene Expr*. 2005;12(3):177-92. PubMed PMID: 16128002.

Biolatti B, Bollo E, Cannizzo FT, Zancanaro G, Tarantola M, Dacasto M, Cantiello M., Bioloatti PG and Barbarino G. Low-dose Dexamethasone on Thymus Morphology and Immunological Parameters in Veal Calves. *J. Vet. Med. A* 52, 202–208 (2005).

Cantiello M, Zaghini A, Nebbia C, Carletti M, Dacasto M and Anfossi P. Effects of the Administration of Spiramycin and Tiamulin on In Vivo Complex Formation and Hepatic Cytochrome P4503A (CYP3A)-dependent Monooxygenases in Rabbits. *Veterinary Research Communications*, 27 Suppl. 1 (2003) 377–379.