

LUDOVICA CHIAVACCINI, DVM DES MS DACVAA

University of Florida College of Veterinary Medicine
Department of Comparative, Diagnostic, and Population Medicine
Gainesville, FL
Email: lchiavaccini@ufl.edu

RESEARCH and/or CLINICAL INTERESTS:

Anesthesia of the critically ill patient. Loco-regional anesthetic techniques. Neuropathic pain markers.
Animal models for neuropathic pain.

EDUCATION:

- 1998-2003 *DVM (summa cum laude), University of Pisa, College of Veterinary Medicine, I*
- 2002-2004 *Veterinary Traditional Chinese Medicine (VTCM) certification*
- 2005-2006 *Diplôme d'études spécialisées - Sciences Cliniques des Équidés, University of Liege, B*
- 2008-2010 *Master of Sciences in Clinical Sciences, Colorado State University, CO*
- 2015 *Diplomate of American College of Veterinary Anesthesia & Analgesia (Dip.ACVA)*

POSTDOCTORAL TRAINING and FELLOWSHIP APPOINTMENTS:

- 2005-2006 *Equine Rotating Internship, University of Liege, B*
- 2010-2011 *Internship in Equine Surgery and Anesthesia, Milton Equine Hospital, ON, Canada*
- 2011-2014 *Residency in Comparative Veterinary Anesthesia, Mississippi State University, MS*
- 2015-2016 *Postdoc in Veterinary Analgesia, University of California – Davis, CA*

SPECIALTY CERTIFICATION:

- 2018-2024 *Italian National Scientific Qualification (ASN-07/H5) – Professore II fascia (tenured associate professor position)*
To move up to a professorship position in the Italian academic system, a candidate needs to get the Italian National Scientific Qualification (ASN). The ASN is meant to attest that an individual has reached a suitable level of scientific maturity to apply for professorship positions. A five-peers panel oversees the evaluation of applicants by means of quantitative indicators of impact and productivity, and through an assessment of their research profile.
- 2017 Educational Commission for Foreign Veterinary Graduates (ECFVG) certification
 2016 North America Veterinary Licensing Exam (NAVLE) certification
 2015 American College Veterinary Anesthesia Analgesia (ACVAA) certification
 2005 Italian Veterinary Licensing Exam (esame di stato nazionale) certification

PROFESSIONAL EXPERIENCE:

- 2021-present *Associate Clinical Professor, University of Florida, Gainesville, FL*
 2019-2021 *Clinical Veterinary Instructor, North Carolina State University, Raleigh, NC*
 2018-present *Anesthesia consultant, Bay Area VCA Animal Hospitals, CA*
 2018-2019 *Clinical Anesthesiologist, VCA San Francisco Veterinary Specialist, San Francisco, CA*
 2016-2018 *Assistant Professor of Clinical Anesthesia and Chief of the Division of Pain Medicine, University of Pennsylvania – Philadelphia Campus, PA*
 2015-2016 *Anesthesia Staff Veterinarian, University of California – Davis, CA*
 2004-2007 *Equine Ambulatory Veterinarian, Ippodromo San Rossore, Pisa, I*
 2007-2008 *Equine Clinician, Clinique Vétérinaire du Grand Renaud, Le Mans, F*

RESEARCH EXPERIENCE:

- 2008-2010 *Graduate Research Assistant in Equine Gastroenterology, Colorado State University, CO*
Acquired proficiency in molecular and cellular biology techniques (PCR, IHC, TUNEL, cell culture and transformation, etc).
- 2004 *Scientist, Istituto Zooprofilattico Sperimentale delle Regioni Lazio e Toscana, Pisa, I*
- 2003 *Student Research Assistant, University of Pisa, Department of Clinical Sciences – Theriogenology, I*
- 2002-2003 *Student Research Assistant, University of Pisa, Department of Animal Pathology Prophylaxis and Food Hygiene, I*

RELATED EXPERIENCE AND SPECIALIZED VOCATIONAL TRAINING:

- Nov 2020 *PSP Medical Editors short course*

- June 2020 *Elsevier Certified Peer Reviewer Course*
- Sept 2019 *IVECCS Symposium, Washington DC*
- Sept 2017 *IVECCS Symposium, Indianapolis, IN*
- Sept 2014 *IVECCS Symposium, Nashville, TN*
- Feb 2014 *Wildlife Handling and Chemical Immobilization short course, Mississippi State University, MS*
- Sept 2013 *IVECCS Symposium, San Diego, CA*
- June 2012 *IVAPM Veterinary Pain Short Course, San Diego, CA*
- June 2008 *Basic Research Techniques with Mice & Rats, Colorado State University, CO*
- Oct 2006 *Visiting Practitioner, UF College of Veterinary Medicine LACS, FL*
- April 2005 *Externship in Equine Medicine and Surgery, University of Liege, B*
- March 2005 *Externship in Equine Medicine and Surgery, Ecole Nationale Vétérinaire de Lyon, F*
- Feb 2004 *Externship in Equine Medicine, Surgery and Intensive Care, Equine Clinic Day Hospital G. Fogliata, Pisa, I*
- Jan 2004 *Externship in Equine Medicine and Surgery, Beaufort Cottage Equine Hospital, Newmarket, UK*

OTHER SCHOLARLY ACTIVITIES:

- Apr 2018 *Visiting Scholar in Anesthesia and Critical Care, University of Napoli Federico II –*
- Oct 2016 *Naples, I*
Ongoing didactic and research collaboration with the University of Naples Federico II (I), consisting in teaching classes at undergraduate and graduate level, postgraduate anesthesia certification course, clinical activities with senior veterinary students and the development of collaborative clinical research projects.
- 2017-present *Instructor, Narkovet consulting, LLC - VetBloom*
<http://registernvc.vetbloom.com/sacourse>
- 2017- 2018 *Clinical Anesthesia Master Program – organizer, University of Pennsylvania, Philadelphia Campus, PA*
- 2017-2018 *Animal Behavior and Wellness Master Program – member, University of Pennsylvania, Philadelphia Campus, PA*

LICENSURE:

State of North Carolina – Faculty license	Active
State of California	Active
State of Pennsylvania	Inactive
Italy	Inactive

AWARDS, HONORS and MEMBERSHIP in HONORARY SOCIETIES:

- 2014 Foundation Resident Travel Grant for best abstract submitted ACVAA Conference; 1st place
- 2014 IVECCS: SmithsMedical/SurgiVet ACVAA Resident Abstract Awards - Honorable mention
- 2010 Colorado State University: 11th Annual CVMBS Research Day; 1st place
- 2004 University of Pisa: DVM summa cum laude

PROFESSIONAL ASSOCIATIONS:

- 2020 - present *Member*, The European Association of Science Editors (EASE)
- 2019 - present *Member*, Academy of Educators NCSU
- 2018 - present *Member*, International Association for the Study of Pain (IASP)
- 2015 - present *Member*, American College of Veterinary Anesthesia and Analgesia (ACVAA)
- 2014 - present *Member*, American Veterinary Medicine Association (AVMA)
- 2007 - present *Member*, Veterinary Committee: Italian Federation for Equestrian Sports (FISE)

NATIONAL COMMITTEES AND ACTIVITIES:

- 2018 - present *Board member*, SIAARTIVet (*Italian Society of Anesthesia Analgesia and Critical Care – Veterinary section*)
- 2017 - present *Board member*, ACVAA board exam cut score panel
- 2016 - present *Board member*, AVMA NAVLE exam review panel

EDITORIAL POSITIONS:

Associate Editor - Veterinary Anesthesia and Analgesia

Media Editor - Veterinary Anesthesia and Analgesia: the creator, curator and host of the Veterinary Anaesthesia and Analgesia Podcasts (<https://www.vaajournal.org/content/podcasts>)

AD HOC/INVITED REVIEWS:

American Journal of Animal and Veterinary Sciences
American Journal of Veterinary Research
BMC Veterinary Journal
Journal of Equine Veterinary Sciences
The New Zealand Veterinary Journal
The Veterinary Journal
Animals

PUBLICATIONS:

Peer-Reviewed Research Papers:

1. Chiavaccini L., D'Agostino C., Perrucci S. (2003). Parasitological and clinical aspects of coccidiosis and otacariasis in the ferret (*Mustela putorius furo*). *Veterinaria*, 17(3): 73-76.
2. Chiavaccini L., Vannozi I. (2005). Laparoscopic approach to Equine cryptorchidectomy. *Ippologia*, 16(3): 5-14.
3. Péters F, Franck T, Pequito M, de la Rebière G, Grulke S, Salccicia A, Verwilghen D, Chiavaccini L, Deby-Dupont G, Serteyn D. (2009). In vivo administration of acepromazine or promethazine to horse decreases the reactive oxygen species production response of subsequently isolated neutrophils to stimulation with phorbol myristate acetate. *J Vet Pharmacol Ther.* 32(6):541-7.
4. Chiavaccini L., Hassel D.M. (2010). Clinical features and prognostic variables in 109 horses with esophageal obstruction (1992-2009). *J Vet Intern Med.* 24(5):1147-52.
5. Chiavaccini L., Hassel D.M., Shoemaker M.L., Charles J.B., Belknap J.K., Ehrhart E.J. (2011). Detection of calprotectin and apoptotic activity within the equine colon from horses with black walnut extract-induced laminitis. *Vet Immunol Immunopathol.* 144(3-4):366-73.
6. Chiavaccini L., Claude A.K., Meyer R.E. (2014). An anesthetic protocol for adult heartworms removal in two cases of canine caval syndrome. *Vet Anaesth Analg.* 41(1):105-6.
7. Claude A.K., Dedeaux A., Chiavaccini L., Hinz S. (2014). Effects of Maropitant Citrate or Acepromazine on the Incidence of Adverse Events Associated with Hydromorphone Premedication in Dogs. *J Vet Intern Med.* 28(5):1414-7.
8. Chiavaccini L., Claude A.K., Lee J.H., Ross M.K., Meyer R.E., Langston V.C. (2015) Pharmacokinetics and pharmacodynamics comparison between subcutaneous and intravenous butorphanol administration in horses. *J Vet Pharmacol Ther.* 38(4):365-74.
9. Chiavaccini L., Claude A.K., Meyer R.E. (2017) Comparison of morphine, morphine-lidocaine and morphine -lidocaine-ketamine infusions in dogs using an incision-induced pain model. *J Am Anim Hosp Assoc.* 53(2):65-72.
10. Chiavaccini L., Micieli F., Meomartino L., Duffee L.R., Vesce G. (2017). A novel supra-temporal approach to retrobulbar anaesthesia in dogs: Preliminary study in cadavers. *Vet J.* 223: 68-70.
11. Duffee L.R., Clarke D.L., Mison M.B., Chiavaccini L. (2017). A Case of Postoperative Supraventricular Tachycardia after Pneumonectomy in a Dog. *JAVMA.* 251(5): 515-519.

12. Rodriguez J.C., Koticha T., Eubanks D.L., Rudek I., Molz F.J., Chiavaccini L., Claude A.K., Elder S., Wang H.L. (2018). Influence of Microtextured Implant Surfaces on Peri-implantitis and Its Treatment: A Preclinical Trial. *Int J Oral Maxillofac Implants*. 33(1):51–57.
13. Micieli F., Chiavaccini L., Lamagna B., Vesce G., Santangelo B. (2018). Comparison of intraocular pressure and pupil diameter after sedation with either acepromazine or dexmedetomidine in healthy dogs. *Vet Anaesth Analg*. 45(5): 667-672.
14. Floriano D., Sahagian M., Chiavaccini L. (2019). Impact of epidural bupivacaine on perioperative opioid requirements, recovery characteristics, and duration of hospitalization in dogs undergoing cystotomy: A retrospective study of 56 cases. *Vet Surg*. 48(7): 1330-1337.
15. Micieli F., Chiavaccini L., Paré M.D., Chagas J.B., Vesce G., Gianotti G. (2019). Comparison of the sedative effects of alfaxalone and methadone with or without midazolam in dogs. *Can Vet J*. 60(10), 1060-1064.
16. Micieli F, Chiavaccini L, Mennonna G, Della Valle G, Prisco F, Meomartino L, Vesce G, An ultrasound-guided subparaneural approach to the sciatic nerve in the dog: a cadaver study. *Vet Anaesth Analg*. 48(1):107-115.
17. Chiavaccini L (2021) REassessment Campaign On VEterinary Resuscitation: Has the time come for horses? *Equine Vet. Educ*. <https://doi-org.prox.lib.ncsu.edu/10.1111/eve.13472> [Epub ahead of print]
18. Chiavaccini, L., Schachar, J., Early, P.J., Bailey, K.M “(2021) Ultrasound-guided perineural injections for the medical management of thoracic limb root signature in a dog. *Vet Anaesth Analg*. 48(3): 480–482.
19. Gupta A, Chiavaccini L, Minnema LM, Chiu KW, Knazovicky D, Hash JA, Mishra SK, Lascelles BDX (2021) Serum artemin is not correlated with sensitivity within dogs with naturally occurring osteoarthritis pain. *Sci Rep*. Mar 23;11(1):6682.

Review Articles (Peer reviewed):

- 1: Bova T.L., Chiavaccini L., Cline G.F., Hart C.G., Matheny K., Muth A.M., Voelz B.E., Kesler D. and Memili E. (2014). Environmental stressors influencing hormones and systems physiology in cattle. *Reprod Biol Endocrinol*. 12(1):58.
- 2: Vesce G., Micieli F., Chiavaccini L. (2017). Preclinical imaging anesthesia in rodents. *Q J Nucl Med Mol Imaging*. 61(1):1-18.

CD Reference Sections, Videos:

1. <https://cvm.ncsu.edu/after-shooting-k-9-kilo-back-home-following-surgery-at-nc-state/>
2. <https://patch.com/pennsylvania/roxborough/watch-baby-gorilla-born-philadelphia-zoo>
3. **Ludovica Chiavaccini**, Kelli Matheny, Erdogan Memili. From Hormones to Herds (Farm and Family Radio Program, Mississippi State University Extension Service, Starkville). Aired on January 21st 2014. <http://msucares.com/news/radio/farmandfamily/index.html>

Published Abstracts:

1. Chiavaccini L., Péters F., Gangl M., Serteyn D., Grulke S. (2006). Preliminary analysis of the prognostic value of white blood cells drop in horses undergoing post-colic surgery intensive care. World Congress of Veterinary Anesthesiology.
2. Shoemaker M.L., Chiavaccini L., Belknap J., Charles B., Ehrhart E.J., Hassel D.M. (2010) Detection of calprotectin and its correlation to apoptosis within the equine gastrointestinal tract from horses with black walnut extract-induced laminitis. Clinical Research at 11th Annual CVMBS Research Day.
3. Chiavaccini L., Claude A.K., Lee J.H., Ross M.K., Meyer R.E., Langston V.C. (2014). Pharmacokinetics and pharmacodynamics comparison between subcutaneous and intravenous butorphanol administration in horses. IVECCS, ACVAA Resident Abstracts.
4. Chiavaccini L., Claude A.K., Meyer R.E. (2014). Comparison of the analgesic effects of morphine, morphine-lidocaine and morphine-lidocaine-ketamine infusions on post-incisional pain in dogs. IVECCS ACVAA Resident Abstracts.
5. Micieli F., Chiavaccini L., Lamagna B., Vesce G., Santangelo B. (2017). Comparison of intraocular pressure and pupil diameter after premedication with either acepromazine or dexmedetomidine in healthy dogs. *Vet Anaesth Analg.* 44(5): 1262.e13.
6. Micieli F., Chiavaccini L., Vesce G., Gianotti G. (2017). Evaluation of a combination of alfaxalone and methadone, with or without midazolam, for premedication in healthy dogs. *Vet Anaesth Analg.* 44(5): 1262.e9.
7. Siracusa C., Provoost L., Leanne L., Duda L., Benedicenti L., Chiavaccini L. (2017) Compulsive self-licking and self-biting in dogs with paraesthesia: 2 cases. In: Proceedings of the 11th International Veterinary Behaviour Meeting. Denenberg S. (ed). CABI, Nosworthy Way, Wallingford, Oxfordshire OX10 8DE, UK. 79-80.
8. Bini G., Bailey K., Voyvodic J., Chiavaccini L., Munana K., Keenihan E (2020) Effects of propofol, alfaxalone and isoflurane on cerebral blood flow and cerebrovascular reactivity to CO₂ in dogs. In: Proceeding of the American College of Veterinary Anesthesia and Analgesia Annual Meeting on September 12, 2020, Virtual Meeting, USA

GRANT ACTIVITY

Past grant activity:

Name of Grant & sponsor number	Funding Agency	Period of Grant	Type of Grant (see grant category below)	Role in Grant and percent effort	Annual Direct Cost	Annual Indirect Cost	Additional Comments
Pfizer Animal Health Grant	Pfizer	2012-2013	IG	Co-leader (30%)	\$26,233		Funding pending
Pfizer Animal Health Grant	Pfizer	2012-2013	IG	Co leader (30%)	\$136,947		Funding pending
Pfizer Animal Health Grant	Pfizer	2012-2013	IG	Co-leader (25%)	\$200		Single center, original study
House Officer Clinical Research Grant Program	Mississippi State University	2012-2013	TG	Co-PI (50%)	\$2,000		Single center, original study
CVM ORGS Internal Grants Program	Mississippi State University	2013-2014	PG	Co-PI (50%)	\$7,100		Single center, original study

ACADEMIC COMMITTEES:

DEPARTMENT COMMITTEES:

- 2017 - 2018 Integrated Rehabilitation & Regenerative Sciences division, University of Pennsylvania – Philadelphia Campus, PA
- 2017 - 2018 Exotic Companion Animals Medicine & Surgery champions team, University of Pennsylvania – Philadelphia Campus, PA
- 2017 Search Committee Member for the Lecturer position in Small Animal Surgery, University of Pennsylvania – Philadelphia Campus, PA
- 2017 Search Committee Member for the AC faculty position in Small Animal Primary Care, University of Pennsylvania – Philadelphia Campus, PA

STUDENT TRAINING:

Postdoctoral students:

- Dr. Alessia Cenani, DVM, MS, DACVAA
- Dr. Amber Wallace, DVM
- Dr. Amber Wallace, DVM
- Dr. Ben Gingold, DVM, DACVAA
- Dr. Ciara Barr, VMD, DACVAA
- Dr. Dario Floriano, DVM
- Dr. Fabiana Micieli, DVM, PhD
- Dr. Gianluca Bini, DMV, RCVS
- Dr. Jessica Briley, DVM
- Dr. Kelley Varner, DVM, DACVAA
- Dr. Kimberly Hassen, DVM, DACVAA
- Dr. Kristine Siao, DVM
- Dr. Lauren Duffie, VMD, DACVAA
- Dr. Matt Milloway, DVM, DACVAA
- Dr. Raphael Vezina-Audette, DVM, MSc., DACVAA
- Dr. Ryan Bailey, DVM, DACVAA
- Dr. Tyne Hovda, DVM
- Dr. Wen Wang, DVM, MS

Graduate students:

- Katherine Simon CVM 2024 - T35 Veterinary Scholars Program

Thesis committee member:

- Dr. Chiara Alterisio – Co-Advisor
- Dr. Alessandro Botta – Co-Advisor

SEMINARS AND ORAL PRESENTATIONS BY INVITATION:

- 2020 *Pharmacology Of Pain Treatment: NGF-Ab & The Next Generation Analgesics*, ICARE 2020, Online Conference, I
- 2019 *The Clinical Use of Locoregional Anesthetic Techniques in Small Animal Practice* (wetlab), North Carolina Veterinary Conference, Raleigh, NC
- 2019 *When and why to ventilate the veterinary patient*. SIAARTIVet, Bari, I
- 2018-19 Narkovet consulting LLC: *Veterinary Technician Certificate Course in Principle Techniques of Small Animal Anesthesia, Perioperative Analgesia & Critical Patient Care* (lectures 9 hrs)
- 2018 *Essential structures and equipment*, Basic course in Principles of Anesthesia Safety, SIAARTIVet, Naples, I
- 2018 *From the recovery to the discharge*, Basic course in Principles of Anesthesia Safety, SIAARTIVet, Naples, I
- 2017 Narkovet consulting LLC: *Veterinary Technician Certificate Course in Principle Techniques of Small Animal Anesthesia, Perioperative Analgesia & Critical Patient Care* (lectures 9 hrs)
- 2016 *Cancer pain: pathophysiology & therapeutic approach*, Penn Conference, Philadelphia, PA
- 2016 *Oncologic Pain: Mechanisms, Integrated Therapy in the Animals and Comparative Approach*, ICARE2016, Naples, I
- 2014 *What's the job for the DVM today?* Orientation Day – University of Pisa, Pisa, I
- 2013 *Analgesic options for the equine practitioner*, Music City Veterinary Conference, Nashville, TN
- 2013 *Local and regional anesthesia in the horse*, Music City Veterinary Conference, Nashville, TN
- 2012 *Anesthesia management of common cat disorders*, Advanced Cat Medicine, Mississippi State University, Starkville, MS

TEACHING RESPONSIBILITIES:

- 2020 VMC 991: A Virtual Introduction to Pain Recognition and Management in Companion Animals (lecture 2.5 hours) North Carolina State University, Raleigh, NC
- 2020 VMB 900: Veterinary Pain Physiology and Clinical Problem Solving (lectures 1 hour), North Carolina State University, Raleigh, NC
- 2020 VMB 930: Anesthesiology (lectures 2 hours), North Carolina State University, Raleigh, NC

2020 VMC 932: Junior Veterinary Student Surgery Labs (instructor 35+ hrs), North Carolina State University, Raleigh, NC

2019 Corso di perfezionamento in Anestesiologia Rianimazione e Terapia Intensiva degli animali da compagnia (*Postgraduate certification course in Small Animal Anesthesia and Critical Care*) (lectures 2 hr), University of Napoli Federico II – Naples, I

2019 CBS 585: Respiratory physiology (lectures 1 hr), North Carolina State University, Raleigh, NC

2019 VMB 900: Veterinary Pain Physiology and Clinical Problem Solving (lectures 1 hour), North Carolina State University, Raleigh, NC

2019 VMB 930: Anesthesiology (lectures 3 hours), North Carolina State University, Raleigh, NC

2019 VMC 932: Junior Veterinary Student Surgery Labs (instructor 35+ hrs), North Carolina State University, Raleigh, NC

2018 Anestesiologia, Clinica Chirurgica e Medicina operatoria Veterinaria (*Veterinary Anesthesiology, Clinical Surgery and Surgical Intervention*) (lectures 2 hr), University of Napoli Federico II – Naples, I

2018 Corso di perfezionamento in Anestesiologia Rianimazione e Terapia Intensiva degli animali da compagnia (*Postgraduate certification course in Small Animal Anesthesia and Critical Care*) (lectures 9 hr), University of Napoli Federico II – Naples, I

2017 – 2018 VCSP 648: SA Anesthesia Elective Seminar Series (lectures 9 hrs). University of Pennsylvania, PA. *Course organizer*

2016 – 2018 VSUR 604: Principles of Veterinary Anesthesia and Analgesia (VSUR604) (lectures 10+ hrs). University of Pennsylvania, PA. *Course organizer*

2016 – 2018 VCSP 647: Sophomore Veterinary Student Surgery Labs (instructor 35+ hrs), University of Pennsylvania, PA

2016 Anestesiologia, Clinica Chirurgica e Medicina operatoria Veterinaria (*Veterinary Anesthesiology, Clinical Surgery and Surgical Intervention*) (lectures 2 hr), University of Napoli Federico II – Naples, I

2016 Corso di perfezionamento in Anestesiologia Rianimazione e Terapia Intensiva degli animali da compagnia (*Postgraduate certification course in Small Animal Anesthesia and Critical Care*) (lectures 4 hrs), University of Napoli Federico II – Naples, I

2011-2014 CVM 5186: Sophomore Veterinary Student Surgery Labs (instructor 35+ hrs), Mississippi State University, MS

2009 VS662: Applied Research – Planning / Design / Data Analysis (lab TA 35+ hours), Colorado State University, CO

2008-2009 LIFE 102: Attributes of Living Systems Laboratory (lab TA 56+ hrs), Colorado State University, CO

2009 BZ 350: Molecular & General Genetics (lab TA 56+ hrs), Colorado State University, CO

OTHER EXPERIENCES AND HOBBIES:

2016-present	<i>Board of Directors member, PI-Philly, Philadelphia, PA</i>
2001-present	<i>Volunteer, The Marine Mammals Center, San Francisco, CA</i>
2009-1998	<i>L.E.O. District 1081a (International Association of Lions), I</i>
2004-2005	<i>District press-officer</i>
2003-2005	<i>Chapter President Leo Club Livorno</i>
1998	<i>Charter member Leo Club Livorno</i>

Horse riding: 3-day events and show jumping. Salsa dancing, Trekking and Hiking,
Yoga