

**Attachment 1A: Biographical Sketch (CV) of Principal Investigator Dr. James Bailey**

Program Director/Principal Investigator Bailey, James E.

<b>BIOGRAPHICAL SKETCH</b>			
NAME Bailey, James E.		POSITION TITLE President, Innovative Veterinary Medicine, Inc.	
COMMON USER NAME: Bailey			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Colorado State University	BS	1986	Microbiology
Colorado State University	BS	1986	Veterinary Science
Colorado State University	DVM	1989	Doctor of Vet Med
The Ohio State University	MS	1993	Vet Phys and Pharm
University of Florida	DACVAA	1996	Am Coll Vet Anest/Analg

**Personal Statement:**

Dr. James Bailey is the President and founder of Innovative Veterinary Medicine, Inc., a biomedical research and development firm in Gainesville, FL. He has a doctorate in veterinary medicine from Colorado State University, a Master of Science in veterinary physiology and pharmacology from The Ohio State University and is a diplomate of the American College of Veterinary Anesthesia and Analgesia. Further, he spent 11.5 years as a professor of veterinary anesthesia and analgesia at the University of Florida, College of Veterinary Medicine, leading the service as service chief for five of those years. He has served in academia, industry, private practice, marine mammal field research and as a marine mammal anesthesia specialist. Dr. Bailey has a long history in managing multi-disciplinary medical and research teams. He is currently the only veterinary anesthesiologist with experience in both sea lion and dolphin anesthesia, as well as experience with the APRV and AAV modes of ventilation. Dr. Bailey has been performing clinical anesthesia on marine mammals since 1993 when he joined the University of Florida, College of Veterinary Medicine.

**A. Positions and Honors.**

**Positions**

2006-2014	President of Innovative Veterinary Medicine Marine Mammal Veterinary Anesthesiologist Gainesville, Florida
2005-2010 1996-1999	Assistant Professor, Anesthesiology University of Florida College of Veterinary Medicine Gainesville, FL 32610
1993-1996	Clinical Instructor, Anesthesiology University of Florida College of Veterinary Medicine Gainesville, FL 32610
2005	Visiting Assistant Professor & Apprentice in Veterinary Administration Louisiana State University School of Veterinary Medicine Baton Rouge, LA 70803

2000-2005                    Veterinary Anesthesiologist & Director of Operations  
                                  VASC Corporation  
                                  Vet Pain Control, Anesth & Critical Management Specialists  
                                  Littleton, CO 80160

2004                            Visiting Professor, Anesthesiology  
                                  Ross University  
                                  College of Veterinary Medicine  
                                  West Farm, St. Kitts

1999-2000                    Anesthesiology Manager & Director of Operations  
                                  Pet Imaging Center (MRI)  
                                  Englewood, CO 80112

1992-1993                    Consulting Anesthesiologist, Professional Education  
                                  Ethicon Endo-Surgery  
                                  Cincinnati, OH 45242

1990-1993                    Clinical Instructor, Anesthesiology  
1991-1993                    Graduate Research Vet Physiol. & Pharm.  
                                  The Ohio State University  
                                  College of Veterinary Medicine  
                                  Columbus, OH 43210

1990-1991                    Clinical Instructor, Anesthesiology  
1989-1990                    Colorado State University  
                                  College of Veterinary Medicine  
                                  Clinical Instructor, Anesthesiology

**Honors**

1997                            UF Faculty Superior Accomplishment Award  
2009                            The Prudential - Davis Productivity Award

**B. Selected peer-reviewed publications (in chronological order).**

1. **Bailey J**, Dunlop C, Chapman P, et al. Indirect Doppler ultrasonic measurement of arterial blood pressure results in a large measurement error in dorsally recumbent anaesthetized horses. *Equine Vet J* 1994;26:70-73.
2. Allen D, Schertel E, **Bailey J**. Reflex cardiovascular effects of continuous prostacyclin administration into an isolated in situ lung in the dog. *J Appl Physiol* 1993;74:2928-2934.
3. **Bailey J**, Muir W, Skarda R. Pulsus alternans during halothane anesthesia in a dog. *Vet Surg* 1993;22:79-84.
4. **Bailey J**, Pablo L, Hubbell J. Hyperkalemic periodic paralysis episode during halothane anesthesia in a horse. *JAVMA* 1996 Jun 1;208(11):1859-1865.
5. Bleyaert H, Madison J, **Bailey J**, et al. Evaluation of a biofragmentable anastomosis ring for small intestinal anastomosis in ponies. *Vet Surg* 1996 Jul-Aug;25(4):327-335.
6. Bleyaert H, Brown M, BonenClark G, **Bailey J**. Laparoscopic adhesiolysis in a horse. *Vet Surg* 1997, 26(6):492-496.
7. **Bailey J**, Pablo L. Anesthetic monitoring and monitoring equipment: Application in small exotic pet practice. *Seminars in Avian and Exotic Pet Medicine* 1998;7(1):53-60.
8. **Bailey J**, Freeman L, Hardie R. Endosurgery. In: M.J. Bojrab, ed. *Current Techniques in Small Animal Surgery*. 4th ed: Baltimore, Williams & Wilkins, 1998, pp.729-746.
9. **Bailey J**, Pablo L. Anesthetic and Physiologic Consideration for Veterinary Endo-Surgery. In: L. Freeman, ed. *Veterinary EndoSurgery*. 1st ed: Mosby, 1999, pp.24-43.
10. **Bailey J**, Pablo L. Practical Approach to Acid-base Disorders. In: Micheal Schaer, ed. *Veterinary Clinics of North America: Small Animal Practice*. W.B. Saunders, 1998; 28(3):645-662.

11. MacKay R, Brown C, Bleyaert H, **Bailey J**, et al. Effect of eltenac in horses with induced endotoxemia. *Equine Vet J Suppl.* 2000 Jun; (32): 26-31
12. **Bailey J**, Colahan P, Kubilis P, et al. Effect of inhaled beta 2 adrenoceptor agonist, albuterol sulphate, on performance of horses. *Equine Vet J Suppl.* 1999 Jul;30:575-80
13. Roberson S, **Bailey J**. Aerosolized salbutamol (albuterol) improves PaO<sub>2</sub> in hypoxaemic anaesthetized horses - a prospective clinical trial in 81 horses. *Vet Anesth & Analgesia* Oct;29(4):212-218.
14. Foerster SH, **Bailey JE**, Aguilar R, Loria DL, Foerster CR. Butorphanol/xylazine/ketamine immobilization of free-ranging Baird's tapirs in Costa Rica. *J Wildl dis.* 2000 Apr;36(2):335-41.
15. Hernandez-Divers S, **Bailey J**. Chemical Immobilization of Tapiridae. In: West G, Heard D, and Caulkett, N, eds. *Zoo Animal & Wildlife Immobilization and Anesthesia*. Blackwell Professional Publishing 2008: 533-541.
16. Colahan P, **Bailey J**, et al. Effect of flunixin meglumine on selected physiologic and performance parameters of athletically conditioned thoroughbred horses subjected to an incremental exercise stress test.. *Vet Ther.* 2002 Spring;3(1):37-48
17. Colahan P, **Bailey J**, et al. Effect of sufadiazine and pyrimethamine on selected physiologic and performance parameters of athletically conditioned thoroughbred horses during an incremental exercise stress test.. *Vet Ther.* 2002 Spring;3(1):49-63
18. **Bailey J**, Freeman L. Endosurgery. In: M.J. Bojrab, ed. *Current Techniques in Small Animal Surgery*. 5th ed: Baltimore, Williams & Wilkins, In Press 2014.
19. **Bailey J**. Cetacean Sedation & Anesthesia: Review & Update. 2013 American Association of Zoo Veterinarians Annual Conference Proceedings 2013; Salt Lake City, UT.
20. **Bailey J**. Arterial Blood Pressure Monitoring of Select Pinnipeds: Multi-Case Presentation. 44th Annual International Association for Aquatic Animal Medicine Conference Proceeding 2013; Sausalito, CA.
21. **Bailey J**, Flanagan, C, Meegan, J, et al. Cogent Evidence of Rhabdomyolysis in a California sea lion (*Zalophus californianus*) and a South African fur seal (*Arctocephalus pusillus pusillus*) during anesthesia. 43rd Annual International Association for Aquatic Animal Medicine Conference Proceedings 2012; Atlanta, Georgia.
22. **Moore M**, Walsh M, Bailey J, Brunson D, Gulland F, Landry S, Mattila D, Mayo C, Slay C, Smith J, Rowles T. Sedation at sea of entangled North Atlantic right whales (*Eubalaena glacialis*) to enhance disentanglement. *PLoS One.* 2010 Mar 9;5(3):e9597.
23. **Bailey J**, Overcoming challenges of dolphin anesthesia. Navy Marine Mammal Program, Office of Naval Research Clinical Research Planning Meeting held at Hubbs-SeaWorld Research Institute, San Diego, CA, 23-24 March 2009

### C. Relevant Field Marine Mammal Work:

Species: Steller sea lion (*Eumetopias jubatus*)  
Location: Gulf of Alaska and Bering Sea  
Organization: National Marine Mammal Laboratory (NMML) of the Alaska Fishery Science Center  
Point of Contact: Dr. Brian Fadley  
Dates: February 23 - March 15, 2003

Species: Neonatal Steller sea lion (*Eumetopias jubatus*)  
Location: Gulf of Alaska and Bering Sea  
Organization: National Marine Mammal Laboratory (NMML) of the Alaska Fishery Science Center  
Point of Contact: Dr. Tom Loughlin  
Dates: June 29 – July 7, 2003

Species: Juvenile Steller sea lion (*Eumetopias jubatus*)  
Location: Prince William Sound  
Organization: Alaska SeaLife Center  
Point of Contact: Dr. Jo-Ann Mellish  
Dates: February 23 - March 15, 2003  
Species: Harbor Seals (*Phoca vitulina richardii*)  
Location: Prince William Sound  
Organization: Alaska Department of Fish and Game; Alaska SeaLife Center

Point of Contact: Dr. Gail Blundell; Dr. Anne Hoover-Miller, respectively

- Dates: June 21 - July 2, 2004  
Species: Harbor Seals (*Phoca vitulina richardii*)  
Location: Prince William Sound and Glacier Bay  
Organization: Alaska Department of Fish and Game; Alaska SeaLife Center  
Point of Contact: Dr. Gail Blundell  
Dates: April 19 – May 3, 2005
- Species: Harbor Seals (*Phoca vitulina richardii*)  
Location: Prince William Sound and Glacier Bay  
Organization: Alaska Department of Fish and Game; Alaska SeaLife Center  
Point of Contact: Dr. Gail Blundell  
Dates: September 27 – October 9, 2005
- Species: Harbor Seals (*Phoca vitulina richardii*)  
Location: Prince William Sound and Glacier Bay  
Organization: Alaska Department of Fish and Game; Alaska SeaLife Center  
Point of Contact: Dr. Gail Blundell  
Dates: September 3 – September 15, 2006
- Species: Juvenile Steller sea lion (*Eumetopias jubatus*)  
Location: Prince William Sound  
Organization: Alaska SeaLife Center  
Point of Contact: Dr. Jo-Ann Mellish  
Dates: August 1 - March 9, 2007
- Species: Bearded seal (*Erignathus barbatus*)  
Location: Peard Bay and Chukchi Sea  
Organization: North Slope Borough in cooperation with National Marine Mammal Laboratory (NMML) of the Alaska Fishery Science Center  
Point of Contact: Jason Herreman and Dr. Micheal Cameron, respectively  
Dates: June 24 - July 17, 2010
- Species: Bearded seal (*Erignathus barbatus*)  
Location: Chukchi Sea  
Organization: North Slope Borough in cooperation with National Marine Mammal Laboratory (NMML) of the Alaska Fishery Science Center  
Point of Contact: Jason Herreman and Dr. Micheal Cameron, respectively  
Dates: October 9 – October 23, 2010

**D. Relevant Marine Mammal Species Sedation and Anesthesia  
In Managed Populations and the Wild, Worldwide.**

California sea lion (*Zalophus californianus*) - sedation and anesthesia  
Grey seal (*Halichoerus grypus*) - sedation and anesthesia  
Harbor [harbour] seal (*Phoca vitulina*) - sedation and anesthesia  
Hawaiian monk seal (*Monachus schauinslandi*) - sedation and anesthesia  
South American fur seal (*Arctocephalus australis*) - sedation and anesthesia  
South African [brown] fur seal (*Arctocephalus pusillus*) - sedation and anesthesia  
Florida Manatee (*Trichechus manatus latirostris*) – capture, sedation and/or anesthesia  
Walrus (*Odobenus rosmarus*) - sedation and anesthesia  
Common bottlenose dolphin (*Tursiops truncatus*) - sedation and anesthesia  
Pacific white-sided dolphin (*Lagenorhynchus obliquidens*) - anesthesia  
Melon-headed whale (*Peponocephala electra*) – anesthesia  
North Atlantic Right Whale (*Eubalaena japonica*) – open water sedation