

## BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.  
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NAME Jeff C. Ko	POSITION TITLE Professor		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
National Pingtung University of Science and Technology, Pingtung, Taiwan	D.V.M.	1981	Veterinary Medicine
University of Illinois, Urbana, IL	M.S.	1987	Veterinary Medical Sci
College of Veterinary Medicine, Iowa State University, Ames, IA	Resident	1987-89	Theriogenology
American College of Theriogenology	Board Eligible	1989	Theriogenology
College of Veterinary Medicine, University of Illinois, Urbana, IL	Resident	1990-92	Anesthesiology
American College of Veterinary Anesthesiologists	Board Certified	1995	Anesthesiology

### **Positions and Employment**

- July 1992-July 1998 Assistant Professor of Anesthesiology, Department of Small Animal Clinical Sciences, Virginia-Maryland Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, Virginia
- July 1994-July 1998 Assistant Professor of Anesthesiology, Department of Large Animal Clinical Sciences, College of Veterinary Medicine, University of Florida, Gainesville, FL
- July 1998- Aug. 2000 Associate Professor of Anesthesiology, Department of Veterinary Clinical Sciences, Center for Veterinary Health, Oklahoma State University, Stillwater, OK
- Aug. 2000-July 2005 Associate Professor with tenure, Department of Veterinary Clinical Sciences, Center for Veterinary Health, Oklahoma State University, Stillwater, OK
- July 2005-Jan. 2006 Professor, Department of Veterinary Clinical Sciences, Center for Veterinary Health, Oklahoma State University, Stillwater, OK
- Jan. 2006-Present Professor, Department of Veterinary Clinical Sciences, School of Veterinary Medicine, Purdue University, West Lafayette, IN

### **Honors**

- 2012 Pfizer Animal Health Excellence in Research Award
- 1992 Langley Prize Recipient for Best Research Paper of the Year
- 1991 Seventh Annual Veterinary Midwest Anesthesia Conference, best food animal abstract and Presentation
- 1987-1990 Poster winner, American College of Theriogenologists Annual Meeting

### **C. Selected Peer-reviewed Publications**

#### ***Peer Reviewed Publications (selection from 100)***

##### **Relevant to Proposed Research**

1. **Ko JC**, Barletta M, Ismail S, Weil AB, Krimins RA, Payton ME, Constable PD. Influence of ketamine on the cardiopulmonary effects of intramuscular administration of dexmedetomidine-buprenorphine with subsequent reversal with atipamezole in dogs. *J Am Vet Med Assoc.* 2013 Feb 1;242(3):339-45.

2. Krimins RA, \***Ko JC**, Weil AB, Payton ME. Evaluation of anesthetic, analgesic and cardiorespiratory effects in dogs after intramuscular administration of dexmedetomidine-butorphanol-tiletamine-zolazepam or dexmedetomidine-tramadol-ketamine drug combination. *Am J Vet Res.* 2012 Nov; 73(11):1707-14.
3. Krimins, RA, \***Ko JC**, Weil AB, Payton ME, Constable PD. Hemodynamic effects of tiletamine/zolazepam-butorphanol-dexmedetomidine and ketamine-butorphanol-dexmedetomidine in dogs. *Am J Vet Res.* 2012 Sep;73(9):1363-70.
4. \***Ko JC**, Freeman LJ, Barletta M, Weil AB, Payton ME, Johnson BM, Inoue T. Efficacy of oral transmucosal and intravenous administration of buprenorphine before surgery for postoperative analgesia in dogs undergoing ovariohysterectomy. *J Am Vet Med Assoc.* 2011;238(3):318-328.
5. Barletta M, Austin BR, \***Ko JC**, Payton ME, Weil AB, Inoue T. Evaluation of dexmedetomidine and ketamine in combination with opioids as injectable anesthesia for castration in dogs. *J Am Vet Med Assoc.* 2011;238(9):1159-1167.

Other peer-reviewed publications (in the past 5 years)

1. \***Ko JC**, Austin BR, Barletta M, Weil AB, Krimins RA, Payton ME. Evaluation of dexmedetomidine and ketamine in combination with opioids as injectable anesthetic combinations for castration in cats. *J Am Vet Med Assoc.* 2011;239(11):1453-1462.
2. \***Ko JC**, Berman AG. Anesthesia in shelter medicine. *Top Companion Anim Med.* 2010;25(2):92-97.
3. [Lee MS](#), [Ko J](#), [Lee AR](#), [Lee IH](#), [Jung MA](#), [Austin B](#), [Chung H](#), [Nahm S](#), [Eom K](#). Effects of anesthetic protocol on normal canine brain uptake of <sup>18</sup>F-FDG assessed by PET/CT. [Vet Radiol Ultrasound.](#) 2010;51(2):130-135.
4. Johnson BM, \***Ko JC**, Hall PJ, Saunders AT, Lantz GC. Analgesic effect of bupivacaine eluting porcine small intestinal submucosa (SIS) in ferrets undergoing acute abdominal hernia defect surgery. *J Surg Res.* 2011;167(2):e403-e412. Epub 2010 May 22.
5. Wehrenberg AP, Freeman L, \***Ko JC**, Payton ME, Spivack RE. Evaluation of topical epidural morphine for postoperative analgesia following hemilaminectomy in dogs. [Vet Ther.](#) 2009;10(4):E1-E12.

## D. Research Support

### Current & Pending Support

Jeff Ko					
Name (List/PD #1 first)	Supporting Agency & Agency Active Award or Pending Proposal Number	Award Amount	Effective & Expiration Dates	% of Time Committed	Title of Project
<b>Current</b>					
Amy Fauber- otlewski	C Laser Inc. 14011982	\$9,988	08/08/2013 - 02/07/2014	2%	Pilot Study Testing Safety and Efficacy of Low Intensity Laser
Jeff Ko	CTSI	\$23,915	08/01/2013- 07/31/2014	2%	The Influence of Carbamazepine on Morphine and Isoflurane Sparing Effects in Canine Patients
Jeff Ko	C Laser Inc.	\$12,000	01/01/2013- 01/31/2014	2%	Testing of Low Intensity Laser Ablation (LILA) in dogs with chronic pai
Ann Weil	C Laser Inc.	\$10,000	09/01/2013 - 03/31/2014	2%	Pilot testing of Low Intensity Laser Ablation (LILA) in Horses with Chronic Pain
<b>Pending</b>					
*No Known Pending Support at This Time*					