

CURRICULUM VITAE

SHERMAN O. CANAPP JR., DVM, MS, CCRT
Diplomate, American College of Veterinary Surgeons – Small Animal
Diplomate, American College of Veterinary Sports Medicine and
Rehabilitation

CURRENT ADDRESSES:

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Sports Medicine Group (VOSM)
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Orthobiologic Innovations, LLC
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EDUCATION:

- 1995-1999 Kansas State University College of Veterinary Medicine, Manhattan, KS.
DVM/MS dual degree program, DVM, May 1999
- 1995-1999 Kansas State University College of Veterinary Medicine, Manhattan, KS.
Master's in Clinical Science in Surgery, MS, August 1999
- 1994-1995 Johns Hopkins University, Baltimore, MD.
Graduate studies in Biochemistry
- 1990-1994 University of Maryland Baltimore County - Towson University, Baltimore, MD.
Biology Major, Chemistry Minor

ACADEMIC TRAINING:

- 2000-2003 Residency in Small Animal Surgery, Resident Advisor: Dr. Dan D. Lewis,
University of Florida College of Veterinary Medicine, Gainesville, FL.
- 1999-2000 Internship in Small Animal Medicine & Surgery, Intern Advisor: Dr. James L.
Cook, University of Missouri-Columbia College of Veterinary Medicine,
Columbia, MO. Rotating internship through small animal medicine, surgery,
neurology, cardiology, anesthesia, ophthalmology, community practice, and
emergency services.
- Aug – Oct
1998 Comparative Orthopaedic Research, Drs. Paul Manley and Mark Markel,
Comparative Orthopaedic Research Laboratory, School of Veterinary Medicine,
University of Wisconsin-Madison, Madison, WI. Performing arthroscopic
procedures with the application of radiofrequency energy, fracture fixation,

biomechanical testing, force plate analysis, tissue processing, histological analysis, and confocal laser microscopy.

- 1997-1999 Graduate Student Master's Research, Major Professor: Dr. Ron McLaughlin (1995-98), Dr. James Roush (1998-99), Kansas State University College of Veterinary Medicine, Manhattan, KS. Scintigraphic evaluation of Cosequin DS and Cosequin DS -S-adenosyl-L- methionine as treatment for acute joint disease in dogs.
- May - Aug 1996 Small Animal Surgical Fellowship, Dr. Steven Swaim, Auburn University College of Veterinary Medicine/Scott-Ritchey Research Center, Auburn, AL. Performing reconstructive soft tissue surgery, experimental and clinical cases. Lectures and case discussions on reconstructive soft tissue surgical techniques. Research Project: The effects of locally injected Acemannan and Tripeptide-Copper Complex on the healing of full-thickness skin grafts.
- 1993-1995 Research Assistant, Drs. Phillip Brown and Nancy Ator, Johns Hopkins University School of Medicine, Bay View Research Center, Baltimore, MD. Responsibilities: Performed experimental surgical and pharmaceutical research.

ADVANCED COURSES:

- 2011 Prosthetic Cranial Cruciate Ligament Replacement Surgery Introductory Course & Wet Lab. 2011 ACVS Symposium, Chicago, IL. Sponsored by SECUROS. November 2, 2011.
- 2011 Advanced Lameness Clinical Exam & Diagnosis Symposium. Dr. Philippe Benoit. Advanced lameness evaluations and diagnostic musculoskeletal ultrasound. Hassler Dressage, Chesapeake City, MD. October 5, 2011.
- 2011 Advanced Canine Arthroscopy (Veterinary Arthrology Association; VA3). Advanced arthroscopic and joint stabilization techniques; Regenerative Medicine; Carpal and tarsal arthroscopy. Arthrex, Bonita Springs FL, August 18-20, 2011.
- 2010 Advanced Canine Arthroscopy (Veterinary Arthrology Association; VA3). Advanced arthroscopic and joint stabilization techniques; Meniscal repair; Regenerative Medicine; Uni-compartmental Elbow Resurfacing (CUE). Arthrex, Bonita Springs FL, August 12-14, 2010.
- 2009 Advanced Canine Arthroscopy. Advanced arthroscopic techniques for the shoulder and stifle. Arthrex, Bonita Springs FL, 34134 , August 16-17, 2009.
- 2008 Advanced Canine Arthroscopy (Veterinary Arthrology Association; VA3). Advanced arthroscopic and joint stabilization techniques; Tightrope shoulder and stifle stabilization; OATS procedure; meniscal repair. Arthrex, Bonita Springs FL, 34134 , August 21-22, 2008.

- 2007 Stem Cell Therapy Certification. Vet-Stem Regenerative Veterinary Medicine. Poway, CA. October, 19, 2007.
- 2007 Advanced Canine Arthroscopy. Advanced arthroscopic techniques for the shoulder and stifle. Arthrex, Bonita Springs FL, 34134 , August 16-17, 2007.
- 2006 Advanced Canine Arthroscopy. Advanced arthroscopic techniques for the shoulder, elbow, stifle, and hock; Osteochondral Allo-Autograft (OATS) workshop. Arthrex, Bonita Springs FL, 34134 , August 24-26, 2006.
- 2005 Certification in Canine Rehabilitation Therapy. Dr. Janet B. Van Dyke. Canine Rehabilitation Institute, Wellington, FL, March 11-17, April 9-19, 2005.
- 2002 Kyon Course on Zurich Cementless Canine Total Hip Replacement. Drs. Pierre Montavon, Slobodan Tepic, Jeff Peck, and Jacek deHaan. Affiliated Veterinary Specialists, Maitland, FL 32751, July 13-14, 2002.
- 2002 Tibial Plateau Leveling Osteotomy Course. Slocum Enterprises, Inc., Eugene, OR 97404, June 7-8, 2002.
- 2002 Minimally Invasive Surgery Laboratory. Techniques in laparoscopy and thoracoscopy. Dr. Clarence Rawlings (Univ. of Georgia). Gainesville FL, 32610, April, 2002.
- 2002 Minimally Invasive Surgery Course. Techniques in laparoscopy and thoracoscopy. Dr. Phillip Brown, Johns Hopkins University School of Medicine, Baltimore, MD 21231, March 11-14, 2002.
- 2001 Clinical Trials Workshop. Drs. Ralph Claxton (Novartis), Steve Budsberg (Univ. of Georgia), and Charles Cortney (Univ. of Florida). Gainesville, FL 32610, October, 2001.
- 2001 Surgical stapling laboratory. Provided by Kendall Sherwood-Davis & Geck. Instructor: Richard Scavo. University of Florida, College of Veterinary Medicine, Gainesville, FL, March, 2001.
- 2001 Surgical Fixation of Fractures Conference: AO/ASIF Techniques, The Ohio State University College of Veterinary Medicine, Columbus, OH, April 26-30, 2001.
- 2000 Techniques in Laparoscopy, Thoracoscopy, and Endoscopy. Provided by the Karl Storz Corporation. Instructors: Drs. Todd Tams and Colin Burrows, University of Florida College of Veterinary Medicine. Gainesville, FL 32610, September, 2000.

LABORATORY INSTRUCTOR:

- 2016 Sports Medicine Workshop. Drs. Debra and Sherman Canapp. Sports medicine evaluations in live dogs; diagnostic musculoskeletal ultrasound; regenerative medicine processing; intra-articular injections. Centre for Veterinary Education, University of Sydney. Sydney Australia. March 12-13, 2016.
- 2016 Companion University Regenerative Medicine Workshop. Lectures on regenerative medicine technologies, indications and treatments. Hands-on wet-lab for PRP and stem cell therapy collection, processing and administration. Sponsored by Companion Animal Health. Annapolis Junction, MD. February 12, 2016.
- 2015 Sports Medicine Workshop. Drs. Debra and Sherman Canapp and Brittany Jean Carr and David Mason. Sports medicine evaluations; objective gait analysis; orthopedic devices; diagnostic musculoskeletal ultrasound; regenerative medicine processing; intra-articular injections. NAVC Institute, Orlando, FL. July 27-30, 2015.
- 2015 Sports Medicine Workshop. Drs. Debra and Sherman Canapp and Brittany Jean Carr. Sports medicine evaluations; objective gait analysis; orthopedic devices; diagnostic musculoskeletal ultrasound; regenerative medicine processing; intra-articular injections. Oquendo Center, Las Vegas Nevada. April 17-19, 2015.
- 2015 Sports Medicine Workshop. Drs. Debra & Sherman Canapp. 2015 North American Veterinary Conference. Sponsored by Scil, Canine Regenerative Therapies, EmCyte, Hitachi-Aloka, Eversot. Orlando, Fl. January 19, 2015.
- 2014 Sports Medicine Workshop. 2014 American College of Veterinary Surgeons Surgery Summit. Sponsored by Scil, Canine Regenerative Therapies, EmCyte, Hitachi-Aloka. San Diego, CA. October 15, 2014.
- 2014 Intra-articular Injection and Regenerative Medicine Workshop. 8th International Symposium on Veterinary Rehabilitation / Physical Therapy and Sports Medicine. Oregon State University, Corvallis OR. August 4, 2014.
- 2014 Objective Gait Analysis Wet-Lab. 4th World Veterinary Orthopedic Congress (WVOC). March 2, 2014. Breckenridge, Colorado. Sponsored by Gair4 Dogs.
- 2014 VOSM Sports Medicine Academy; The Canine Forelimb. Drs. Debra & Sherman Canapp.
- 2014 Orthopedic & Sports Medicine Wet-lab. Drs. Debra and Sherman Canapp. North American Veterinary Conference. Orlando, FL. January 21, 2014. Sports medicine hands on evaluations; musculoskeletal ultrasound; ultrasound guided injections; intra-articular injections; objective gait analysis; orthopedic devices castings and applications.
- 2013 Canine Sports Medicine Workshop. Drs. Debra and Sherman Canapp. Western States Veterinary Conference, Oquendo Center. Sports medicine hands on evaluations; musculoskeletal ultrasound; ultrasound guided injections; intra-articular injections; objective gait analysis; orthopedic devices castings and applications.

- 2012 Intra-articular Injections in Dogs. IA Workshop. Mid-Atlantic States Veterinary Conference. Howard County Fairgrounds, West Friendship, MD. May 10, 2012.
- 2012 Rehabilitation Therapy Workshop (Drs. Debra and Sherman Canapp). NAVC Conference, Orlando FL. Sponsored by DogLeggs, k-9 orthotics and GaitRite. January 15, 2012.
- 2010 Canine Lameness Laboratory. Objective gait assessment techniques. International Association of Veterinary Rehabilitation & Physical Therapy (IAVRPT), Auburn University, Auburn, AL. August 4, 2010.
- 2010 Canine Orthopedic Diagnostics. Objective gait analysis; Orthopedic Devices; Orthopedic evaluations. American Veterinary Medical Association, Georgia World Congress Center, August 1, 2010.
- 2007 Canine Arthroscopy Laboratory. Arthroscopic techniques for the shoulder, elbow, stifle, and hock. 2007 Mid-Atlantic States Veterinary Clinic. 6 CE hours. Howard County Fairgrounds, West Friendship, MD Sponsored by the MVMA. May 10, 2007.
- 2007 Working Dog Seminar & Wet-lab. Police K-9, Search & Rescue, Bomb Squad, Water Rescue handlers and trainers. Veterinary Orthopedic & Sports Medicine Group. Marriott Hunt Valley Inn. Hunt Valley, MD. March 31, 2007.
- 2007 Canine Sports Medicine & Rehabilitation Therapy Laboratory (6 CE credits awarded). Veterinary Orthopedic & Sports Medicine Group. Crowne Plaza Valley Forge, King of Prussia. Sponsored by Nutramax Laboratories, Inc. February 15, 2007.
- 2006 Canine Sports Medicine & Rehabilitation Therapy Laboratory (6 CE credits awarded). Veterinary Orthopedic & Sports Medicine Group. Sheraton Hotel, Columbia, MD, September 24, 2006. Sponsored by Nutramax Laboratories, Inc.
- 2002 Small Animal Arthroscopy Course. Featured lecturer Dr. John Payne. University of Florida, Gainesville, FL 32610, December 15, 2002.
- 2002 K-9 Down: Emergency medical procedures for injured working dogs. Attended by state and local policemen, firemen, and dog handlers/trainers. University of Florida, Gainesville, FL 32610, July 27-28, 2002 and July 28-29, 2001.
- 2002 Seminar for Japanese Veterinarians: Advanced Cranial Abdominal Surgical Techniques, University of Florida, College of Veterinary Medicine, Gainesville, FL 32610, February 2002.

CLINICAL INSTRUCTOR:

- 2009-2013 Canine Rehabilitation Institute: "Current Techniques in Canine Orthopedics and Rehabilitation" advanced elective. VOSM, Annapolis Junction, MD October 23-24, 2009; March 25-27, 2010; April 14-16, 2011.

2009 University of Tennessee / Northeast Seminars Canine Rehabilitation Program: “The Canine Athlete” with Deborah Gross Saunders, DPT, MPT, CCRP.

INSTRUCTIONAL MULTIMEDIA:

2016 Regenerative Medicine Webinar: Stem Cell 101. Companion Animal Health

2016 Regenerative Medicine Webinar: Platelet Rich Plasma Therapy. Companion Animal Health

2015 Sports Medicine Webinar: PAW; Blackmores.

2013 American Kennel Club Canine Health Foundation Webinar: Regenerative Medicine for Orthopedic Conditions in dogs: February 12, 2013.

2010 Nutramax Roundtable: Update on Joint Health Care. Roundtable Moderator: Dr. Sherman Canapp; Participants: Dr. Darryl Millis, Dr. Duncan Lascelles, et al. Veterinary Learning Systems. Atlanta, GA, August 1, 2010.

2007 Joint Preservation In Veterinary Practice: Evidence-Based Medicine. Dr. Sherman Canapp, Dr. Wayne McIlwraith, Dr. David Hungerford, Dr. Michael Orth. American College of Veterinary Surgeons Symposium, Sheraton Chicago Hotel, Chicago, Il., October 18, 2007.

2007 Nutramax Roundtable: Update on Joint Health Care. Roundtable Moderator: Dr. Darryl Millis; Participants: Dr. Sherman Canapp, Dr. Christy Redfearn, Dr. Duncan Lascelles, Dr. Larry Wallace. Veterinary Learning Systems. April 28, 2007.

2005 Production of an instructional video for surgeons on the uses and clinical application of a synthetic bone graft substitute (Consil ®). Nutramax Laboratories, Inc., Edgewood, MD.

CLINICAL EXPERIENCE & CONSULTING:

2016-present Veterinary Device Consultant: Zygood Company, LLC. Dr. Robert Fischell, Baltimore, MD

2016-present Veterinary Product Consultant: Vaton. Dr. Harry Goldberg. Baltimore, MD.

2016 – present Veterinary Device Product Consultant: Voyce Pro. I4C Innovations, Baltimore MD.

- 2015-present Sports Medicine Device Consultant: Trice Medical. King of Prussia, PA.
- 2015-present Regenerative Medicine & Sports Medicine Consultant: Owl Manor Veterinary. Warsaw, IN
- 2015-present Regenerative Medicine & Sports Medicine Consultant: Companion Animal Health.
- 2014-present Orthopedic & Sports Medicine Consultant, Dr. Alycia Lamb, SunSet Hills Veterinary Rehabilitation Center, Seattle, WA. Performing and teaching arthroscopic procedures; regenerative medicine treatments; diagnostic musculoskeletal ultrasound in clinical cases. (VOSM Affiliation location).
- 2014-present Regenerative Medicine Consultant. AVASstem; VETRA. Calgary, Canada.
- 2014-2016 Regenerative Medicine Consultant. ReCellerate Inc.
- 2014-2015 Canine Regenerative Therapies, LLC. Product development, validation and clinical testing of PRP and BMAC products.
- 2014-present Key Opinion Leader Regenerative Medicine Division. Elanco Companion Animal Health.
- 2013-present Regenerative Medicine Consultant. EmCyte Corporation. Fort Myers, FL. Platelet rich plasma (PRP) and bone marrow aspirate concentrate (BMAC) validation and clinical testing.
- 2013-present Sports Medicine Consultant. Everost Company. Research & development of sports medicine implants, instrumentation and technologies.
- 2013-present Regenerative Medicine Consultant; Advanced Cell Technology, Inc. Marlborough, MA. Allogeneic stem cell validation and clinical testing.
- 2013-present Regenerative Medicine Consultant; Harvest, Termuo Company. Boston, MA. Canine bone marrow and adipose derived stem cell validation and clinical testing; Canine platelet rich plasma validation and clinical testing.
- 2012-present Pfizer – Zoetis Osteoarthritis Advisory Board: Dr. Sharon Campbell, Veterinary Operations, Pfizer Animal Health, Madison NJ
- 2012-present Orthobiologic Innovations, LLC: President and CEO. Research & Development in Regenerative & Sports Medicine. Concept and product design and development for orthopedic and arthroscopic devices, instrumentations, biologics and regenerative medicine technologies. Gaithersburg, MD.
- 2011-2012 Orthopedic Implant and Devices Consultant; SECUROS/MWI. John F Francis, President/Managing Director. Fiskdale, MA 01518. Concept and product design and development for orthopedic and arthroscopic devices and instrumentation.

- 2011-present Orthopedic & Sports Medicine Consultant, Dr. Lori Cabell, Metropolitan Veterinary Associates, Valley Forge, PA. Performing and teaching arthroscopic procedures in clinical cases.
- 2010-2013 Orthopedic & Sports Medicine Consultant, Smith & Nephew, Inc., Orthopedics – Jeff Mebel, Memphis, TN; Endoscopy – Christos Monovoukas, Andover Massachusetts
- 2009-present Orthopedic Surgery & Sports Medicine Consultant, Johns Hopkins University School of Medicine, Department of Comparative Medicine and Research Animal Resources, Drs. Joanna Walker and Dawn Ruben, Baltimore, MD 21205
- 2009-present Orthopedic Surgery Consultant, National Aquarium. Drs. Leigh Clayton and Kat Hadfield, Baltimore, MD 21205
- 2006-present Veterinary Orthopedic & Sports Medicine Group (VOSM); Chief of Staff, Annapolis Junction, MD. Orthopedic and neurological surgical procedures, sports medicine, and rehabilitation therapy consulting.
- 2004-present Surgical Consultant, Smithsonian’s National Zoological Park, Department of Animal Health, Dr. Sharon Deem, Washington D.C. 2008.
- 2004-present Orthopedic Consultant, Nutramax Laboratories, Inc. Drs. Todd Henderson, Barbara Eves, and David Griffin. Edgewood, MD. Production of an instructional video for surgeons on the use of a synthetic bone graft substitute (Consil®); Performing a clinical trial on the use of Consil®.
- 2004-present Orthopedic Surgery and Sports Medicine Consultant, Montgomery County Police K-9 Unit. Officer Joseph Stanton, Gaithersburg, MD. Performing orthopedic and neurological surgical procedures; performing orthopedic/sports medicine consultations.
- 2004-present Orthopedic Surgery and Sports Medicine Consultant, Fly Ball and Frisbee Competition Team dogs, Columbia, MD. Team veterinarian.
- 2004-present Surgical Consultant, The Washington D.C. Animal Rescue League, Medical Director, Dr. Gary Weitzman, Washington D.C. 20011. Performing surgical consultations, orthopedic, soft tissue, and neurosurgery.
- 2004-present Surgical Consultant, Maryland Zoological Park, Department of Animal Health, Dr. Mary Denver, Baltimore, MD 21217.
- 2003-2006 Staff Surgeon, VCA Veterinary Referral Associates, Medical Director, Dr. Dave Saylor, 15021 Dufief Mill Road Gaithersburg, MD 20878. Orthopedic surgery and sports medicine, general surgery, and neurosurgery.
- 1998 Small Animal Orthopedic Surgical Externship, Drs. Simon Roe and Denis Marcellin-Little, North Carolina State University College of Veterinary Medicine, Raleigh, NC. Responsibilities: Primary casework up and management, anesthesia/surgery prep, assisted and performed surgical procedures under

supervision, post-op management, client and RDVM communication. Participated in house officer rounds, ICU, and primary emergency duties.

- 1997 Small Animal Medicine & Surgery Externship, Dr. Amanda Donnelly, Emergency Veterinary Clinic of Greater Kansas City, Overland Park, KS. Responsibilities: Performed surgical procedures, diagnostics, and medical treatments. Participated in interactive patient assessment and case discussions with emergency clinicians.
- 1993-1995 Veterinary Technician, Dr. Cooper Williams, Hampstead, MD. Equine practice. Responsibilities: Assisted with surgical procedures, medical treatments, diagnostics, and examinations.
- 1987-1995 Surgical Technician, Dr. Larry Gainsburg, The Greater Baltimore Veterinary Referral Service, Owings Mills, MD. Neurology/Neurosurgery. Responsibilities: Participated in surgical procedures as a technician and assistant surgeon. Assisted with diagnostics (MRI, CT Scans, EMG, myelograms), and neuro exams.
- 1987-1993 Emergency Veterinary Technician, Dr. Bill Benson, 24-Hour Veterinary Complex, Reisterstown, MD. Small animal emergency, surgical referral, and general practice. Responsibilities: Performed diagnostics, medical treatments, and patient care. Assisted as a technician and assistant surgeon in soft tissue and orthopedic surgical procedures.

BOARD CERTIFICATION:

- 2004 American College of Veterinary Surgeons
- 2010 American College of Veterinary Sports Medicine and Rehabilitation (Charter Diplomate)

LICENSED:

- 2012-present Pennsylvania
2003-present Maryland
1999 Missouri

SOCIETIES:

- 2012-present North American Veterinary Regenerative Medicine Association
2001-present Veterinary Orthopedic Society
2001-2010 Wound Healing Association
1999-present The American Veterinary Medical Association
1997-present American Canine Sports Medicine Association
1996-1999 The Student Chapter of The American Veterinary Medical Association
1996-1999 American Animal Hospital Association
1995-1999 Student Chapter Veterinary Emergency and Critical Care Society
1991-1994 Tri-Beta (Biological Honor Society), Towson State University, MD.

COMMITTEE SERVICE:

- 2014-2015 President, American College of Veterinary Sports Medicine & Rehabilitation.
- 2013-2014 President Elect: American College of Veterinary Sports Medicine & Rehabilitation
- 2013-2014 Small Animal Symposium Program Chair: 2014 International Association of Veterinary Rehabilitation & Physical Therapy and the American College of Veterinary Sports Medicine & Rehabilitation combined Symposium. Oregon State University, Corvallis OR. August 3-8, 2014.
- 2013-2014 Small Animal Symposium PR/Marketing Chair: 2014 International Association of Veterinary Rehabilitation & Physical Therapy and the American College of Veterinary Sports Medicine & Rehabilitation combined Symposium. Oregon State University, Corvallis OR. August 3-8, 2014.
- 2013-present 2012 American College of Veterinary Sports Medicine & Rehabilitation Symposium Small Animal Chair.
- 2012 Seminar Chair, Lower Extremity Session, 2012 American College of Veterinary Surgeons Symposium.
- 2012 Laboratory Chair, Diagnostic Musculoskeletal Ultrasound, 2012 American College of Veterinary Surgeons Symposium.
- 2011 2012 American College of Veterinary Sports Medicine & Rehabilitation Symposium Small Animal Chair.
- 2011-present Chair Public Relations & Marketing Committee & Co-Chair Continuing Education Committee. American College of Veterinary Sports Medicine & Rehabilitation
- 2010-2012 Maryland Veterinary Medical Association. Director at Large.
- 2010-2012 Maryland Veterinary Medical Association Task Force. Ronald Sohn, Dr. Edward Jendrek
- 2010 Seminar Chair, Rehabilitation Therapy and Physical Medicine Lecture Forum, American College of Veterinary Surgeons Symposium, Seattle, WA, October 2010
- 2010 Seminar Chair, Small Animal Program, International Association of Veterinary Rehabilitation and Physical Therapy Symposium, Auburn, AL August 2010
- 2009 Seminar Chair, Sports Medicine Lecture Forum, American College of Veterinary Surgeons Symposium, Washington D.C., 2009

- 2009 Seminar Chair, Canine Rehabilitation Laboratory, American College of Veterinary Surgeons Symposium, Washington, D.C., 2009
- 2008-2011 Industry Liaison, American Association of Rehabilitation Veterinarians (AARV)
- 2008 Founding President, American Association of Rehabilitation Veterinarians (AARV)
- 2007 Seminar Chair, Canine Rehabilitation Laboratory, American College of Veterinary Surgeons Symposium, Chicago, IL, 2007
- 2006 Seminar Chair, Canine Rehabilitation Laboratory, American College of Veterinary Surgeons Symposium, Washington D.C., 2006
- 2006 Seminar Chair, Canine Rehabilitation Lecture Forum, American College of Veterinary Surgeons Symposium, Washington D.C., 2006

FACULTY ADVISOR:

- 2015-present Dr. Lauri-Jo Gamble (VOSM Sports Medicine & Rehab Intern)
- 2015-present Dr. Desmond Tan (VOSM Surgical Intern): Matched to surgical residency at The Animal Medical Center, NYC
- 2015-present Dr. Robert Cullen (VOSM Surgical Intern)
- 2014-present Dr. Britt Carr (VOSM ACVSMR Resident)
- 2014-2015 Dr. Shannon Heidorn (VOSM Surgical & Sports Medicine Intern): Matched to surgical residency at California Veterinary Specialists, LA, California
- 2014-2015 Dr. Julia Petrovich (VOSM Surgical & Sports Medicine Intern)
- 2013-2014 Dr. Britt Carr (VOSM Surgical & Sports Medicine Intern)
- 2013-2014 Dr. Erica O'Donnell (VOSM Surgical & Sports Medicine Intern): Obtained fellowship at Fitzpatrick's Veterinary Referral, UK.
- 2013-2014 Dr. Stephanie Mueller (VOSM Sports Medicine & Rehabilitation Intern)
- 2013-2014 Dr. Andra Kowalczyk (Sports Medicine & Rehabilitation Intern)
- 2012-2013 Dr. Juliette Hart (VOSM ACVSMR Resident)
- 2012-2013 Dr. Heather York (VOSM Sports Medicine & Rehabilitation Fellow)
- 2012-2013 Dr. Jessica Obrinsky (VOSM Surgical Intern): Matched to Surgical residency at Maitland Veterinary Specialists, Orlando Florida.

- 2012 Dr. Janice Heish (VOSM Surgical Intern)
- 2011-2012 Dr. Dan Balogh (VOSM Surgical Intern): Matched to surgical residency University of Minnesota College of Veterinary Medicine
- 2010-2011 Dr. Nina Kieves (VOSM Surgical Intern): Matched to surgical residency Iowa State University College of Veterinary Medicine

SCIENTIFIC REVIEWER:

- 2015-present Veterinary Regenerative Medicine, Editor-in-Chief, Dr. Jennifer Barrett
- 2013-present The American Kennel Club CHF OAK Grant reviewer, Dr. Shila Nordone
- 2013-present The Canadian Veterinary Journal, Dr. Carlton Gyles Associate Editor
- 2013-present American Kennel Club Canine Health Foundation Scientific Grant Reviewer
- 2012-present Journal of American Animal Hospital Association, Ann Everhart, Managing Editor
- 2009-present Veterinary Medicine, Managing Editor Alyson Collins
- 2007 Veterinary Orthopedics and Traumatology, Sophie Gillanders, Assistant editor
- 2007 Veterinary Therapeutics, Research in Applied Veterinary Medicine, Cheryl Hobbs, Senior Editor
- 2007-present Veterinary Surgery, Editor-in-Chief, Dr. John Pascoe
- 2007 Arthritis Care & Research, Co-Editor-in-Chief, Dr. Edward Yelin
- 2006 Revue de Médecine Vétérinaire; Assistant editor, Jean-Denis Bailly

HONORS & AWARDS:

- 2009 1st Place Dog Writers Association of America 2008 Writing Competition Regular Categories for Special Interest Magazine
- 2003 University of Florida Resident Seminar Award, 1st Place
- 2002 American College of Veterinary Surgeons Resident Research Presentation Award, 1st Place
- 2002 American College of Veterinary Surgeons Research and Education Foundation Award
- 2002 Veterinary Orthopedic Society Hohn-Johnson Research Award
- 2000 Intern Teaching Award, University of Missouri-Columbia CVM
- 2000 L.N. Atkinson, DVM, Intern Award for Proficiency in Medicine and Surgery
- 1999 American College of Veterinary Surgeons Proficiency in Small Animal Surgery Student Award
- 1999 UpJohn Schering-Plough Proficiency in Small Animal Medicine Award
- 1998 Eula C. Voirol Veterinary Student Scholarship
- 1998 The American Kennel Club Educational grant
- 1998 Phi Zeta Research Seminar Award, 2nd Place
- 1997 Dr. Harry L. Schultz, Jr. Memorial Scholarship, Maryland Veterinary Foundation
- 1996-1997 Vice President, The Student Chapter of The American Veterinary Medical Association, KSU College of Veterinary Medicine
- 1996 Dr. G. Roger Research Scholarship, KSU College of Veterinary Medicine
- 1996 Gladys Lichty Memorial Scholarship, KSU College of Veterinary Medicine

1995 Kathryn Ashbrook Scholarship, KSU College of Veterinary Medicine
1995 Maryland House of Delegates Higher Education Scholarship
1992 Outstanding Biology Student Award, U of Maryland, Towson State

SCIENTIFIC PRESENTATIONS:

Canapp SO. Sports Medicine Theory and Practice Program. Forelimb Lameness, Where do we start? Centre for Veterinary Education, University of Sydney. Sydney Australia. March 12-13, 2016.

Canapp SO. Sports Medicine Theory and Practice Program. Hind limb Lameness, Where do we start? Centre for Veterinary Education, University of Sydney. Sydney Australia. March 12-13, 2016.

Canapp SO. Sports Medicine Theory and Practice Program. How to Incorporate PRP into your Practice. Centre for Veterinary Education, University of Sydney. Sydney Australia. March 12-13, 2016.

Canapp SO. Sports Medicine Theory and Practice Program. How to Incorporate Stem Cell Therapy into your Practice. Centre for Veterinary Education, University of Sydney. Sydney Australia. March 12-13, 2016.

Canapp SO. Sports Medicine Theory and Practice Program. Intra-articular Injections for OA. Centre for Veterinary Education, University of Sydney. Sydney Australia. March 12-13, 2016.

Canapp SO. How to Incorporate Regenerative Medicine into your Practice: American Institute of Medical Laser Applications. Royal Caribbean Independence of the Seas Cruise Ship lecture series. February 26, 2016.

Canapp SO. Soft tissue injuries in sporting and working dogs. South European Veterinary Conference. Barcelona, Spain. October 17, 2015.

Canapp SO. How to incorporate regenerative medicine into your practice. South European Veterinary Conference. Barcelona, Spain. October 17, 2015.

Canapp SO. Orthopedic Devices. South European Veterinary Conference. Barcelona, Spain. October 17, 2015.

Canapp SO. Intra-articular injections for the treatment of osteoarthritis. South European Veterinary Conference. Barcelona, Spain. October 17, 2015.

Canapp SO. Panel Discussion: Cranial Cruciate Ligament Injury. South European Veterinary Conference. Barcelona, Spain. October 17, 2015.

Canapp SO. How to incorporate PRP therapy into your practice. Veterinary Sports Medicine & Rehabilitation Summit. Veterinary Teaching Academy. The Pacific Club, Honolulu, Hawaii. July 14, 2015.

Canapp SO. How to incorporate stem cell therapy into your practice. Veterinary Sports Medicine & Rehabilitation Summit. Veterinary Teaching Academy. The Pacific Club, Honolulu, Hawaii. July 14, 2015.

Canapp SO. Sports Medicine & Regenerative Medicine full day program. American Veterinary Medical Association Conference. Boston, MA. July 11, 2015.

Canapp SO. Meet the expert: Regenerative Medicine for tendon and ligament injuries in dogs. 24th Annual Scientific Meeting, European College of Veterinary Surgeons. Berlin, Germany. July 4, 2015.

Canapp SO. Biceps Injuries in Dogs. 24th Annual Scientific Meeting, European College of Veterinary Surgeons. Berlin, Germany. July 4, 2015.

Canapp SO. Supraspinatus Tendinopathy & Response to Regenerative Medicine Treatment. 24th Annual Scientific Meeting, European College of Veterinary Surgeons. Berlin, Germany. July 4, 2015.

Canapp SO. Platelet Rich Plasma, Stromal Vascular Fraction, Bone Marrow Aspirate Concentrate; What's in the soup? TOBI 6th Annual PRP & Regenerative Medicine Symposium. Red Rock Resort, Las Vegas, NV. June 13, 2015.

Canapp SO. Sports Medicine Workshop Lecture Series (Sports medicine injuries; Orthopedic devices; regenerative medicine). Oquendo Center, Las Vegas Nevada. April 17-19, 2015.

Canapp SO. Forelimb Lameness: Where do we start? Delaware Valley Academy of Veterinary Medicine. Plymouth Meeting, PA. April 8, 2015.

Canapp SO. Hind limb Lameness: Where do we start? Delaware Valley Academy of Veterinary Medicine. Plymouth Meeting, PA. April 8, 2015.

Canapp SO. How to incorporate PRP therapy into your practice. Delaware Valley Academy of Veterinary Medicine. Plymouth Meeting, PA. April 8, 2015.

Canapp SO. How to incorporate stem cell therapy into your practice. Delaware Valley Academy of Veterinary Medicine. Plymouth Meeting, PA. April 8, 2015.

Canapp SO. Forelimb Lameness: Where do we start? The Midwest Veterinary Conference. Columbus, Ohio. February 22, 2015.

Canapp SO. Hind limb Lameness: Where do we start? The Midwest Veterinary Conference. Columbus, Ohio. February 22, 2015.

Canapp SO. How to incorporate PRP therapy into your practice. The Midwest Veterinary Conference. Columbus, Ohio. February 22, 2015.

Canapp SO. How to incorporate stem cell therapy into your practice. The Midwest Veterinary Conference. Columbus, Ohio. February 22, 2015.

Canapp SO. Orthopedic Devices. The Midwest Veterinary Conference. Columbus, Ohio. February 22, 2015.

Canapp SO. Intra-articular injections for osteoarthritis. The Midwest Veterinary Conference. Columbus, Ohio. February 22, 2015.

Canapp SO. Master Class: Stem Cell Protocols That Actually Work. The North American Veterinary Conference. Orlando, Fl. January 17, 2015.

Canapp SO. Sports Medicine Approach to Shoulder Injuries. ACVSMR Program. The North American Veterinary Conference. Orlando, Fl. January 21, 2015.

Canapp SO. How to incorporate PRP into your practice. ACVSMR Program. The North American Veterinary Conference. Orlando, Fl. January 21, 2015.

Canapp SO. How to incorporate stem cell therapy into your practice. ACVSMR Program. The North American Veterinary Conference. Orlando, Fl. January 21, 2015.

Canapp SO. How to perform intra-articular injections in the canine. ACVSMR Program. The North American Veterinary Conference. Orlando, Fl. January 21, 2015.

Canapp SO. Advanced Orthopedic Conditions (Advanced Shoulder Cases). 2014 American College of Veterinary Surgeons Surgery Summit. San Diego, CA. October 18, 2014.

Canapp SO. Supraspinatus Tendinopathy. 2014 American College of Veterinary Surgeons Surgery Summit. San Diego, CA. October 17, 2014.

Canapp SO. Stifles Braces for CCL Injuries. 2014 American College of Veterinary Surgeons Surgery Summit. San Diego, CA. October 16, 2014.

Canapp SO. Prosthesis: An alternative canine limb spare technique. 17th ESVOT Congress (European Society of Veterinary Orthopedics & Traumatology). Venice, Italy. October 3, 2014.

Canapp SO. Regenerative Medicine for Canine Orthopedic Conditions. 17th ESVOT Congress (European Society of Veterinary Orthopedics & Traumatology). Venice, Italy. October 3, 2014.

Canapp SO. Orthopedic Devices for Orthopedic Conditions in Dogs. An alternative canine limb spare technique. 17th ESVOT Congress (European Society of Veterinary Orthopedics & Traumatology - SCIVAC). Venice, Italy. October 3, 2014.

Canapp SO. Supraspinatus Tendinopathy & Other Shoulder Problems. 17th ESVOT Congress (European Society of Veterinary Orthopedics & Traumatology). Venice, Italy. October 3, 2014.

Canapp SO. Pressure Mats for Objective Outcome Measure in Practice. 17th ESVOT Congress (European Society of Veterinary Orthopedics & Traumatology). Venice, Italy. October 3, 2014.

Canapp SO. Stifle Braces for CCL Injury. 8th International Symposium on Veterinary Rehabilitation / Physical Therapy and Sports Medicine. Oregon State University, Corvallis OR. August 5, 2014.

Canapp SO. Regenerative Medicine in the Canine. 8th International Symposium on Veterinary Rehabilitation / Physical Therapy and Sports Medicine. Oregon State University, Corvallis OR. August 7, 2014.

Canapp SO, Canapp D, Lavine D, Baltzer W. Panel Discussions; Medial Shoulder Instability; Achilles Tendon Injury; Iliopsoas Strains. 8th International Symposium on Veterinary Rehabilitation / Physical Therapy and Sports Medicine. Oregon State University, Corvallis OR. August 8, 2014.

Canapp SO, Canapp D. Sports Medicine and Rehabilitation Conference. Nebraska Academy of Veterinary Medicine. La Vista Hotel and Conference Center. Omaha, Nebraska. March 9, 2014. Sponsored by Nutramax and Companion Therapy Lasers.

Canapp SO, Kirkby K, Cook C, Cook J, Drum M. Shoulder injuries in the canine athlete. Panel Session. 4th World Veterinary Orthopedic Congress (WVOC). March 2, 2014. Breckenridge, Colorado.

Canapp SO. Supraspinatus Tendinopathy in Dogs Retrospective Study: 327 Cases. 4th World Veterinary Orthopedic Congress (WVOC). March 2, 2014. Breckenridge, Colorado.

Canapp SO. Regenerative Medicine for Supraspinatus Tendinopathy in Dogs; Retrospective Study. 4th World Veterinary Orthopedic Congress (WVOC). March 6, 2014. Breckenridge, Colorado.

Canapp SO, Heggeness Michael, Nixon Alan, Smith Roger, McIlwraith Wayne. Expert Panel on Clinical Applications of Regenerative Medicine and Tissue Engineering. TERMIS-North American Veterinary Regenerative Medicine Conference. Atlanta, GA. November 13, 2013.

Canapp SO. Regenerative Medicine for Tendinopathies in the Canine. TERMIS-North American Veterinary Regenerative Medicine Conference. Atlanta, GA. November 13, 2013.

Canapp SO. Regenerative Medicine for Tendinopathies in the Canine. Regenerative Medicine Session. American College of Veterinary Surgeons Symposium. San Antonio, Tx. October 25, 2013.

Canapp SO. Supraspinatus Tendinopathy in the Canine; 203 Cases. American College of Veterinary Surgeons Symposium; ACVSMR Session. San Antonio, Tx. October 25, 2013.

Canapp SO. Sports Medicine Conditions & Treatments for Forelimb & Hind limb injuries. Sports Medicine & Rehabilitation Session. New England Veterinary Conference. Portland, Maine Sept 28-29 2013.

Canapp SO. Regenerative Medicine for Orthopedic Conditions in the Canine. American

Kennel Club Canine Health Foundation Symposium. St Louis, Missouri. August 10, 2013.

Canapp SO. Japan Lecture Tour. Orthopedic Conditions; Regenerative Medicine; Sports Medicine. Sponsored by NAHA. Fukuoka, Nagoya, Tokyo, Japan. March 6-20, 2013.

Canapp SO. Keynote Speaker AVO Germany. AVO Tagung Berlin. Sports Medicine Conditions and Regenerative Medicine. AVO Conference. Berlin, Germany, November 23-25, 2012.

Canapp SO. Regenerative Medicine for Tendinopathies in the Canine. North American Veterinary Regenerative Medicine Association. Savannah, Georgia. November 7-10, 2012.

Canapp SO. Sports Related Injuries & Regenerative Medicine. DPCTZ Sports Medicine Conference, Flanders, NJ. September 15, 2012.

Canapp SO. Shoulder Conditions in the Canine Athlete. Camden Yards, Orioles Stadium. Baltimore, MD. Sponsored by Merial. July 29, 2012.

Canapp SO. Regenerative Medicine for Orthopedic Conditions. Keynote speaker, AVORE Conference, Stevenson, Washington State. July 13-14, 2012.

Canapp SO. Supraspinatus Tendinopathy 122 Cases. Keynote speaker, AVORE Conference, Stevenson, Washington State. July 13-14, 2012.

Canapp SO. Keynote speaker AVORE. OA: Alternative Therapies. AVORE Conference, Stevenson, Washington State. July 13-14, 2012.

Canapp SO. Orthopedic Devices. Keynote speaker, AVORE Conference, Stevenson, Washington State. July 13-14, 2012.

Canapp SO. Soft Tissue Sports Related Injuries. Keynote speaker, AVORE Conference, Stevenson, Washington State. July 13-14, 2012.

Canapp SO. Regenerative Medicine for Canine Soft Tissue Injuries. University of Missouri College of Veterinary Medicine. Columbus Missouri. May 18, 2012.

Canapp SO. Keynote speaker. Regenerative Medicine in Canine Orthopedics. Music City Veterinary Conference, Nashville Tennessee. March 9, 2012.

Canapp SO. Challenging Forelimb Conditions; Challenging Hind Limb conditions; Orthopedic Devices. Music City Veterinary Conference, Nashville Tennessee. March 9, 2012.

Canapp SO. Joint Health Rehabilitation. Western States Veterinary Conference. Mandalay Bay. Las Vegas, Nevada. February 22, 2012

Canapp SO. Regenerative Medicine for Canine Sports Related Injuries. Canine Sports Medicine Symposium. NAVC Symposium. Orlando, FL January 15, 2012.

Canapp SO. New Biologic Treatments in Orthopedics. Dr. Antonio Pozzi. NAVC Symposium. Orlando, FL January 15, 2012.

Canapp SO. Challenging Shoulder Conditions. NAVC Symposium. Orlando, FL January 16, 2012.

Canapp SO. State of the Art Treatments for OA. NAVC Symposium. Orlando, FL January 16, 2012.

Canapp SO. Current treatments for elbow dysplasia. NAVC Symposium. Orlando, FL January 16, 2012.

Canapp SO. Intra-articular treatments in dogs. NAVC Symposium. Orlando, FL January 16, 2012.

Canapp SO. Stifle Rehabilitation. NAVC Symposium. Orlando, FL January 16, 2012.

Canapp SO. Supraspinatus Tendinopathy; Regenerative Medicine for Supraspinatus tendinopathy; Update on Canine Orthopedic Devices. Veterinary Arthrology Advancement Association; VA3 Annual Symposium. Arthrex, Bonita Springs FL, August 18-20, 2011.

Kieves N, Lotsikas P, Canapp S, TightRope Toggle Application for Coxofemoral Luxations in Dogs. Poster presentation. Veterinary Orthopedic Society, Steam Boat, Colorado, March 9, 2011.

Canapp SO. "Top 10 orthopedic questions asked by referring veterinarians". New York City, NY. Sponsored by Merial. March 3rd, 2011.

Canapp SO. Working Dog Seminar (Injuries, Therapies and Prevention). Maryland Search and Rescue Task Force. Howard County Training Facility, Howard County MD, February, 19, 2011.

Canapp SO. "Top 10 orthopedic questions asked by referring veterinarians". Flyers Stadium. Philadelphia, PA. Sponsored by Nutramax Laboratories. January 25, 2011.

Canapp SO. Canine Sports Medicine Program. Central Veterinary Conference (CVC) San Diego. San Diego Convention Center, San Diego, CA, November 6-7, 2010.

Canapp SO. Regenerative Medicine for Soft Tissue Injury. American College of Veterinary Surgeons Symposium, Seattle, Washington, October 22, 2010.

Canapp SO. Regenerative Medicine for Soft Tissue Injury. Veterinary Arthrology Advancement Association; VA3 Annual Symposium. Arthrex, Bonita Springs FL, August 12-14, 2010.

Canapp SO. Shoulder Update; Surgical Treatments and Diagnostics. International Association of Veterinary Rehabilitation & Physical Therapy (IAVRPT), Auburn University, Auburn, AL. August 4, 2010.

Canapp SO. Stifle Update; Surgical Treatments and Diagnostics. International Association of Veterinary Rehabilitation & Physical Therapy (IAVRPT), Auburn University, Auburn, AL. August 4, 2010.

Canapp SO, Fitch R. Canine Sports Medicine Program. American Veterinary Medical Association, Georgia World Congress Center, July 31, 2010.

Canapp SO. Regenerative Medicine for Soft Tissue Injury. American Veterinary Medical Association, Georgia World Congress Center, July 31, 2010.

Canapp SO, VanDyke J, Coats J. Canine Sports Medicine and Rehabilitation Therapy Program. Edmonton Rehab Conference. Edmonton, Canada, July 16-18, 2010.

Canapp SO. Canine Sports Medicine Program. Central Veterinary Conference (CVC) Baltimore. Baltimore Convention Center, Baltimore, MD, April 8-10, 2010.

Canapp SO. The Use of Nutraceuticals in Veterinary Sports Medicine and Rehabilitation. Western States Veterinary Conference. Las Vegas, Nevada. February 17, 2010.

Canapp SO. Rehabilitation Therapy for the Treatment of Orthopedic Conditions- Master Class. The North American Veterinary Conference (NAVC). Orlando, FL January 20, 2010.

Canapp SO. Challenging Forelimb Conditions. The North American Veterinary Conference (NAVC). Orlando, FL January 19, 2010. Sponsored by Merial.

Canapp SO. State of the Srt Treatments of OA. The North American Veterinary Conference (NAVC). Orlando, FL January 19, 2010. Sponsored by Merial.

Canapp SO. So Your Interested in Canine Rehab ? The North American Veterinary Conference (NAVC). Orlando, FL January 19, 2010. Sponsored by Merial.

Canapp SO. Orthopedic & Sports Medicine Program, Delaware Veterinary Medical Association Conference, Dover DE, November 18, 2009

Canapp SO. Advanced Orthopedic Elective (two day lecture series and wet lab); Canine Rehabilitation Institute, VOSM, Annapolis Junction, MD, October 23-24, 2009

Canapp SO. Sports Related injury in Performance Dogs. American College of Veterinary Surgeons Symposium, Washington, DC, Marriott Hotel, October 8, 2009

CanappSO. Arthroscopy in Cats. VA3 Conference. Arthrex, Naples, FL. August 20, 2009.

CanappSO. Rehabilitation Therapy following CCL injury in Dogs. VA3 Conference. Arthrex, Naples, FL. August 21, 2009.

Canapp SO. The Use of Stem Cell Therapy in the Elite Canine Athlete or Weekend Warrior. The American Veterinary Medical Association Conference. Seattle Washington, July 11, 2009. Sponsored by Vet Stem.

Canapp SO, Gustafson S. The Use of Stem Cell Therapy on Arthritis and Tendon Injuries. The American Veterinary Medical Association Conference. Seattle Washington, July 11, 2009. Sponsored by Vet Stem.

Canapp SO, Canapp J, Gustafson S, Harman R, Hutchinson M. Using Stem Cells in Veterinary Practice: Panel Discussion. The American Veterinary Medical Association Conference. Seattle Washington, July 11, 2009. Sponsored by Vet Stem.

Canapp SO. Orthopedic Conditions in the Working Dog (Lectures and wet-lab). Seminar for National working K-9s. Veterinary Orthopedic & Sports Medicine Group, Annapolis Junction, MD. June 27, 2009. Sponsored by DogLeggs and Nutramax.

Canapp SO. Common Sports Medicine Injuries in Dogs; Current Treatments of Osteoarthritis in Dogs; Orthopedic Devices in Dogs; Rehabilitation Therapy of the Elbow and Stifle in Dogs. Orthopedic and Rehabilitation Therapy Wet-Lab. Pacific Veterinary Conference, June 18-20th, 2009. Sponsored by Merial.

Canapp SO. Sports Medicine Conditions in Dogs (Lecture and Wet-lab). The Student Chapter Veterinary Medical Association Symposium. Ohio State University, March 26, 2009. Sponsored by Merial.

Canapp SO. Common Forelimb and Hind limb Orthopedic Conditions. The Virginia Veterinary Medical Association Conference. Roanoke, VA February 27-28, 2009. Sponsored by Merial.

Canapp SO. Orthopedic Devices (Orthotics, prosthetics, Braces, etc). American College of Veterinary Surgeons Symposium. Manchester Grand, Hyatt. San Diego, CA. October 23, 2008.

Canapp SO. Rehabilitation Therapy and Intra-articular Treatments for the Elbow. American College of Veterinary Surgeons Symposium. Manchester Grand, Hyatt. San Diego, CA. October 23, 2008.

Canapp SO, Canapp DA. Orthopedic Surgery, Sports Medicine & Rehabilitation Therapy Seminar and Wet Lab (6 CE credits awarded). Veterinary Orthopedic & Sports Medicine Group. Fairfax, VA. October 12, 2008. Sponsored by Merial.

Canapp SO, Canapp DA. Orthopedic Surgery, Sports Medicine & Rehabilitation Therapy Seminar and Wet Lab (6 CE credits awarded). Veterinary Orthopedic & Sports Medicine Group. King of Prussia, PA. September 13, 2008. Sponsored by Nutramax.

Canapp SO. Orthopedic Devices (Orthotics, prosthetics, Braces, etc). Veterinary Arthrology Association; VA3 Conference). Arthrex, Bonita Springs FL, 34134 , August 21-22, 2008.

Canapp SO. Rehabilitation therapy for the elbow in dogs. Veterinary Arthrology Association; VA3 Conference). Arthrex, Bonita Springs FL, 34134 , August

21-22, 2008.

Canapp SO. Non-responsive Forelimb Lameness in Sporting Dogs. The Pennsylvania Veterinary Medical Association Keystone Conference. Hershey Lodge, Hershey, PA August 17, 2008. Sponsored by Nutramax.

Canapp SO. Non-responsive Hind Limb Lameness in Sporting Dogs. The Pennsylvania Veterinary Medical Association Keystone Conference. Hershey Lodge, Hershey, PA August 17, 2008. Sponsored by Nutramax.

Canapp SO, Acciani R. Medial Shoulder Instability in Dogs. International Veterinary Rehabilitation Therapy Conference. Hyatt Conference Center, Minneapolis, MN. August 14, 2008. Sponsored by DogLeggs.

Canapp SO. State of the Art Treatment Options for Osteoarthritis in Sporting Dogs. The American Veterinary Medical Association Annual Conference; Sports Medicine Section. New Orleans Convention Center, New Orleans, LA. July 19, 2008. Sponsored by Merial.

Canapp SO. Non-responsive Forelimb Lameness in Sporting Dogs. The American Veterinary Medical Association Annual Conference; Sports Medicine Section. New Orleans Convention Center, New Orleans, LA. July 19, 2008. Sponsored by Merial.

Canapp SO. Non-responsive Hind Limb Lameness in Sporting Dogs. The American Veterinary Medical Association Annual Conference; Sports Medicine Section. New Orleans Convention Center, New Orleans, LA. July 19, 2008. Sponsored by Merial.

Canapp SO. Sports Medicine and Rehabilitation Therapy Continuing Education Seminar. Integrative Pet Care, Chicago, IL. April 12, 2008. Sponsored by Ferno.

Canapp SO, McIlwraith WC, Hungerford DS, Orth M. Joint Preservation In Veterinary Practice: Evidence-Based Medicine. American College of Veterinary Surgeons Symposium, Sheraton Chicago Hotel, Chicago, IL, October 18, 2007. Sponsored by Nutramax Laboratories, Inc.

Canapp SO, Love N, Gavin P, Stoller N, Leasure C, Frondoza C. Effect of Bioceramic Material (Consil™) on the Healing of Tibial Plateau Leveling Osteotomy Sites in Dogs. Poster Presentation. American College of Veterinary Surgeons Symposium, Sheraton Chicago Hotel, Chicago, IL, October 18, 2007.

Canapp SO, Canapp DA. Orthopedic Surgery, Sports Medicine & Rehabilitation Therapy Seminar and Wet Lab (6 CE credits awarded). Veterinary Orthopedic & Sports Medicine Group. Hilton, Willington, DE, September 30, 2007. Sponsored by Merial.

Canapp SO, Canapp DA. Working Dog Seminar (Injuries, Therapies and Prevention). United States Police Canine Association (USPCA) National Training Seminar. Fredrick, MD, September 23, 2007.

Canapp SO, Canapp DA. Orthopedic Surgery, Sports Medicine & Rehabilitation Therapy Seminar and Wet Lab (6 CE credits awarded). Veterinary Orthopedic & Sports Medicine Group. Holiday Inn, Gaithersburg, MD, July 22, 2007. Sponsored by Merial.

Canapp SO, Canapp DA. State of the Art Treatment Options for Osteoarthritis in Dogs. Fredrick, MD. Sponsored by Merial 19, 2007.

Canapp SO, Canapp DA. State of the Art Treatment Options for Osteoarthritis in Dogs. Ellicott City, MD. Sponsored by Nutramax Laboratories, Inc, and Pfizer Animal Health. March 22, 2007.

Canapp SO, Love N, Gavin P, Stoller N, Leasure C, Frondoza C. Effect of Bioceramic Material (Consil™) on the Healing of Tibial Plateau Leveling Osteotomy Sites in Dogs. Podium Presentation. Veterinary Orthopedic Society, Sun Valley, Idaho. March, 2007.

Canapp SO. Agility Dog Seminar & Wet-lab. Sheraton Columbia Hotel. Columbia, MD. Sponsored by Nutramax Laboratories Inc. February 11, 2007.

Canapp SO. Orthopedic Conditions in Performance Dogs. American Physical Therapy Association, Combined Sections Meeting, The Animal Physical Therapy Special Interest Group. Boston, Massachusetts. February 15, 2007.

Canapp SO. Orthopedic Conditions in Performance Dogs. Continuing Education Seminar. Jefferson Hotel and Conference Center, Richmond, VA. January 28, 2007. Sponsored by Pfizer Animal Health.

Canapp SO. Injuries in Sporting and Working Dogs. The North American Veterinary Conference. Gaylord Conference Center, Orlando, FL, January 14, 2007.

Canapp SO. Non-responsive Forelimb Lameness: Shoulder Tendinopathies. American College of Veterinary Surgeons Symposium, Rehabilitation Therapy Scientific Session, Washington DC, October 5, 2006.

Canapp SO, Canapp DA. Canine Sports Medicine & Rehabilitation Therapy Seminar and Wet Lab (6 CE credits awarded). Veterinary Orthopedic & Sports Medicine Group. Sheraton Hotel, Columbia, MD, September 24, 2006. Sponsored by Nutramax Laboratories, Inc.

Canapp SO. MRI for Soft Tissue Injuries in Dogs. Regional Specialist's Forum. IAMS Imaging Center, San Francisco, CA. September 7, 2006.

Canapp SO. The Use of MRI for Orthopedic Conditions in the Dog. Regional Surgeon's Forum. IAMS Imaging Center, Vienna, VA. March 16, 2006.

Canapp, SO. Rehabilitation Therapy for the Canine Athlete. Lectures and workshop. York County Dog Training Club Seminar, PA. March 12, 2006. Sponsored by Nutramax Laboratories, Inc.

Canapp SO. Getting the Most Out of Your Orthopedic Examination. Montgomery County Continuing Education Seminar. Marriott, Gaithersburg, MD. February 26, 2006.

Canapp SO, Canapp DA. Orthopedic injuries in Agility Dogs; Rehabilitation Therapy for Agility Dogs. Lectures and workshop. Agility After Dark, Westminster Sports Complex, Westminster, MD, January 8, 2006.

Canapp SO. Orthopedic Conditions in Performance Dogs – Common Injuries, Preferred Treatments, and New Options. Montgomery County Veterinary Medical Association Continuing Education Meeting, Gaithersburg, MD, November 8, 2005. Sponsored by Merial Ltd.

Canapp SO. Getting the Most Out of Your Orthopedic Examination; Sports Medicine Injuries in the Canine Athlete. Continuing Education Meeting. Woof Watchers K-9 Rehab & Fitness Referral Centre, Halifax, Nova Scotia, Canada, November 5, 2005.

Canapp SO. Orthopedic Conditions in Performance Dogs – Common Injuries, preferred Treatments, and New Options. Annual American College of Veterinary Surgeons Symposium, San Diego, CA, October 29, 2005. Sponsored by Nutramax Laboratories, Inc.

Canapp SO. Getting the Most Out of Your Orthopedic Examination; Sports Medicine Injuries in the Canine Athlete. Blue Ridge K-9 Training Center Seminar, Blue Ridge Summit, PA, October 15, 2005.

Canapp SO. Orthopedic Conditions in Performance Dogs – Common Injuries, preferred Treatments, and New Options. Maryland Agility Group and Breakaway Action Dogs Seminar, Frederick, MD, July 31, 2005.

Canapp SO. Minimally Invasive Surgery “Where Less is Really More”. Annual American College of Veterinary Surgeons Symposium, Pet Owners Seminar, Denver Colorado, October 9, 2004.

Canapp SO, Cross AR, Brown MP, Lewis DD, Hernandez J, Tran-Son-Tay R. Examination of Synovial Fluid and Serum Following Intravenous Injections of Hyaluronan for the Treatment of Osteoarthritis in Dogs. The Veterinary Orthopedic Society Conference. Big Sky, Montana, February 25, 2004.

Canapp SO, Cross AR, Brown MP, Lewis DD, Hernandez J, Tran-Son-Tay R. Examination of Synovial Fluid and Serum Following Intravenous Injections of Hyaluronan for the Treatment of Osteoarthritis in Dogs. 13th Annual American College of Veterinary Surgeons Symposium, Orthopedic Scientific Session, Washington DC, October 13, 2003.

Canapp SO. Medical Management of Osteoarthrosis. The North American Veterinary Conference. Orlando, FL, January 19, 2003.

CanappSO, JP Farese, GS Schultz, SF Swaim, JM VanGilder, L Lee-Ambrose, FG Martin, AM Ishak. The Effect of Topical Tripeptide-Copper-Complex in a Model For Chronic Open Wounds. 12th Annual American College of Veterinary Surgeons Symposium, Resident Research Presentation Competition, San Diego, CA, October 17, 2002.

Canapp SO. Joint Protective Agents for the Treatment of Osteoarthritis; Arthroscopic Applications in Joint Disease. 73rd Annual Florida Veterinary Medical Association Convention, Orlando, FL, September 15, 2002.

Canapp SO. The Use of Minimally Invasive Surgery in Veterinary Medicine. Peter Piper Memorial Continuing Education Conference, Caloosa Veterinary Society, Sanibel Island, FL., August 3, 2002.

SO Canapp, JP Farese, GS Schultz, SF Swaim, JM VanGilder, L Lee-Ambrose, FG Martin, AM Ishak. The Effect of Topical Tripeptide-Copper-Complex in a Model For Chronic Open Wounds. Veterinary Wound Healing Seminar, University of Edinburgh, Scotland, May 9, 2002.

Canapp SO. Joint Protective Agents for the Treatment of Osteoarthritis. Alachua County Veterinary Society Continuing Education Conference. Gainesville, FL 32610, September 14, 2001.

Canapp SO. The Use of Arthroscopy in Small Animal Surgery. 1st Annual Referring Veterinarian Continuing Education and Appreciation Day. Gainesville, FL 32610, September, 2001.

Canapp SO. Chondroprotective Agents: *Fact or Fiction?* Peter Piper Memorial Continuing Education Conference, Caloosa Veterinary Society, Sanibel Island, FL., August 4, 2001.

Canapp SO, McLaughlin RM, Roush JK, Kawcak CE, Lillich JD. Serologic levels of Hyaluronan, Osteocalcin, and Collagen 2 ³/₄ in normal dogs and dogs with synovitis. 10th Annual American College of Veterinary Surgeons Symposium, Small Animal Orthopedic Surgery Scientific Session, Crystal City Arlington, Virginia, September 22, 2000.

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK, Butine MD. Scintigraphic evaluation of Cosequin DS and Cosequin DS – S-adenosyl-L-methionine as treatments for acute synovitis in dogs. 8th Annual American College of Veterinary Surgeons Symposium, Small Animal Orthopedic Surgery Scientific Session, Chicago, IL. October 9, 1998.

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK. Scintigraphic evaluation of Cosequin as treatment for acute synovitis in dogs. Annual Phi Zeta Research Seminar, Kansas State University College of Veterinary Medicine. March 18, 1998.

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK. Scintigraphic evaluation of Acute Joint Disease in Dogs. Pilot study presentation for Nutramax Laboratories Inc., Kansas State University College of Veterinary Medicine. June 10, 1997.

Canapp SO, Swaim SF. The effects of locally injected Acemannan and Tripeptide-Copper Complex on the healing of full-thickness skin grafts. Proposal presentation, Scott-Ritchey Research Center, Auburn University College of Veterinary Medicine. July 29, 1996.

SCHOLARLY WRITINGS:

Original Reviewed Publications:

Carr BJ, Canapp SO, Mason D, Cox K, Hess T. Canine Platelet Rich Plasma Systems: A Multicenter, Prospective Analysis. *The Journal of Veterinary Regenerative Medicine*, Accepted for publication

Carr BJ, Canapp SO, Zink C. Quantitative comparison of the walk and trot of Border Collies and Labrador Retrievers, breeds with different performance requirements. *Plus One*, Accepted for publication.

O'Donnell EM, Canapp SO, Cook JL, Pike F. Surgical treatment of medial shoulder syndromes using a minimally invasive prosthetic ligament stabilization technique in 39 dogs. *Vet Surg*, Submitted.

Tan Desmond, Canapp SO, Leasure C. Traumatic Fragmented Medial Coronoid Process (Jump Down Syndrome) in 24 Dogs. *VCOT*, Submitted.

Heidorn S, Canapp SO, Zink C, Leasure C. Return to Competitive Sport in Agility Dogs with Cranial Cruciate Ligament Rupture Treated with Tibial Plateau Leveling Osteotomy. *Vet Surg*, Submitted

Kieves N, Canapp SO, Christopher S, Lotsikas P, Leasure C, Canapp D, Gavin P,. The Effects of Low Intensity Pulsed Ultrasound on Radiographic Healing of TPLO Sites in Dogs: A Prospective, Double Blinded Study. *Vet Surg*, Accepted for publication

Meilleur S, Canapp SO, Carr BJ, Christopher S, Collins J, Cox K. The use of canine stifle braces for cranial cruciate ligament insufficiency. *Vet Evidence*, accepted.

Cook JL, Schulz KS, Karnes GJ, Franklin SP, Canapp SO, et al. Clinical outcomes associated with the initial use of the Canine Unicompartamental Elbow (CUE) Arthroplasty System. *Can Vet J*. 2015 Sept;56(9):971-7.

Petrovich J, Canapp SO, Campana D. The use of forelimb and hind limb prosthesis for partial amputations in dogs. *JAVMA*, In Progress

Canapp S, Barrett J, Canapp D, Gavin P. Supraspinatus Tendinopathy in Dogs; 327 cases. *Vet Evidence*, In Review

Kives N, Lotsikas P, Schulz K, Canapp S, Hip Toggle Stabilization Using the TightRope® System in 21 Dogs: Technique and Long-Term Outcome, *Vet Surg*, Accepted.

Hadfield CA, Canapp SO, Clayton LA, Fishman EK, Zink MC. Fluoroscopic-guided shoulder arthroscopy in a yellow-headed snapping turtle (*Eseya irwini*) with focal degenerative joint disease. *Journal of Herpetological Medicine and Surgery* (Accepted January 2012)

Canapp SO, Acciani D, Hulse D, Schulz K, Canapp D. Rehabilitation Therapy for the Elbow in Dogs. *Veterinary Surgery*, 38:300-306, 2009

Canapp SO, Love N, Gavin P, Stoller N, Leasure C, Frondoza C. Effect of Bioceramic

Material (Consil™) on the Healing of Tibial Plateau Leveling Osteotomy Sites in Dogs. Submitted to the *Journal of the American Veterinary Medical Association* January 2008.

Canapp SO, Cross AR, Brown MP, Lewis DD, Tran-Son-Tay R, Hernandez J. The Evaluation of Synovial Fluid and Serum Following Intravenous Injections of Hyaluronan for the Treatment of Osteoarthritis in Dogs. *Veterinary Orthopedic and Traumatology*, 2005;18:169-74.

Canapp SO, Farese JP, Schultz GS, Swaim SF, Van Gilder JM, Lee-Ambrose L, Martin FG, Ishak AM. The Effect of Topical Tripeptide-Copper-Complex in a Model for Chronic Open Wounds. *Veterinary Surgery* 2003; 32:515-523.

LaFurtune M, Canapp SO, Heard D. A Vasectomy Technique for Egyptian Fruit Bats (*Rousettus aegyptiacus*). *Journal of Zoo and Wildlife Medicine*, 2004;35:104-106.

Vinson JA, Canapp SO, Cook CR, Lattimer JC. Kartagener's Syndrome in a Dachshund Dog. *Journal of the American Animal Hospital Association*, 2002;38:45-49.

Canapp SO, Cohn LA, Maggs DJ, Miller MA, O'Brien PO, Kerl ME. Xerostomia and Xerophthalmia in a Cat with Sjogren's-Like Syndrome. *Journal of the American Veterinary Medical Association* 2001;218:59-65.

Canapp SO, Mann FA, Henry CJ, Lattimer JC. The Use of a Latissimus Dorsi Muscle Flap for Scapular Reconstruction in a Cat Following Fibrosarcoma Excision. *Journal of the American Animal Hospital Association*, 2001; 37:283-289

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK, Butine MD. Scintigraphic evaluation of Glucosamine Hydrochloride and Chondroitin Sulfate as treatment for acute synovitis in dogs. *American Journal of Veterinary Research* 1999;60:1549-1553.

Published Abstracts and Proceedings:

Canapp SO. Orthopedic Devices (Orthotics, prosthetics, Braces, etc). American College of Veterinary Surgeons Symposium. Manchester Grand, Hyatt. San Diego, CA. October 23, 2008.

Canapp SO. Rehabilitation Therapy and Intra-articular Treatments for the Elbow. American College of Veterinary Surgeons Symposium. Manchester Grand, Hyatt. San Diego, CA. October 23, 2008.

Canapp SO. Orthopedic Devices (Orthotics, prosthetics, Braces, etc). Veterinary Arthrology Association; VA3 Conference). Arthrex, Bonita Springs FL, 34134, August 21-22, 2008.

Canapp SO. Rehabilitation therapy for the elbow in dogs. Veterinary Arthrology Association; VA3 Conference). Arthrex, Bonita Springs FL, 34134, August 21-22, 2008.

Canapp SO. Non-responsive Forelimb Lameness in Sporting Dogs. The Pennsylvania Veterinary Medical Association Keystone Conference. Hershey Lodge, Hershey, PA August 17, 2008.

Canapp SO. Non-responsive Hind Limb Lameness in Sporting Dogs. The Pennsylvania Veterinary Medical Association Keystone Conference. Hershey Lodge, Hershey, PA August 17, 2008.

Canapp SO, Acciani R. Medial Shoulder Instability in Dogs. International Veterinary Rehabilitation Therapy Conference. Hyatt Conference Center, Minneapolis, MN. August 14, 2008.

Canapp SO. State of the Art Treatment Options for Osteoarthritis in Sporting Dogs. The American Veterinary Medical Association Annual Conference; Sports Medicine Section. New Orleans Convention Center, New Orleans, LA. July 19, 2008.

Canapp SO. Non-responsive Forelimb Lameness in Sporting Dogs. The American Veterinary Medical Association Annual Conference; Sports Medicine Section. New Orleans Convention Center, New Orleans, LA. July 19, 2008.

Canapp SO. Non-responsive Hind Limb Lameness in Sporting Dogs. The American Veterinary Medical Association Annual Conference; Sports Medicine Section. New Orleans Convention Center, New Orleans, LA. July 19, 2008.

Canapp SO, McIlwraith WC, Hungerford DS, Orth M. Joint Preservation In Veterinary Practice: Evidence-Based Medicine. American College of Veterinary Surgeons Symposium, Sheraton Chicago Hotel, Chicago, Il., October 18, 2007. Sponsored by Nutramax Laboratories, Inc.

Canapp SO, Love N, Gavin P, Stoller N, Leasure C, Frondoza C. Effect of Bioceramic Material (Consil™) on the Healing of Tibial Plateau Leveling Osteotomy Sites in Dogs. Poster Presentation. American College of Veterinary Surgeons Symposium, Sheraton Chicago Hotel, Chicago, Il., October 18, 2007.

Canapp SO. Injuries in Sporting and Working Dogs. The North American Veterinary Conference. Gaylord Conference Center, Orlando, Fl, January 14, 2007.

Canapp SO. Non-responsive Forelimb Lameness: Shoulder Tendinopathies. American College of Veterinary Surgeons Symposium, Rehabilitation Therapy Scientific Session, Washington DC, October 5, 2006

Canapp SO. Minimally Invasive Surgery “Where Less is Really More”. Annual American College of Veterinary Surgeons Symposium, Pet Owners Seminar, Denver Colorado, October 9, 2004.

Canapp SO, Cross AR, Brown MP, Lewis DD, Hernandez J, Tran-Son-Tay R. Examination of Synovial Fluid and Serum Following Intravenous Injections of Hyaluronan for the Treatment of Osteoarthritis in Dogs. The Veterinary Orthopedic Society Conference. Big Sky, Montana, February 25, 2004.

Canapp SO, Cross AR, Brown MP, Lewis DD, Hernandez J, Tran-Son-Tay R. Examination of Synovial Fluid and Serum Following Intravenous Injections of Hyaluronan for the Treatment of Osteoarthritis in Dogs. 13th Annual American College of Veterinary Surgeons Symposium, Washington DC, October 13, 2003.

Canapp SO. Medical Management of Osteoarthrosis. The North American Veterinary Conference. Orlando, FL, January 19, 2003.

Canapp SO, JP Farese, GS Schultz, SF Swaim, JM VanGilder, L Lee-Ambrose, FG Martin, AM Ishak. The Effect of Topical Tripeptide-Copper-Complex in a Model For Chronic Open Wounds. 12th Annual American College of Veterinary Surgeons Symposium, Scientific Presentation, San Diego, CA., 2002:4.

Canapp SO. Joint Protective Agents for the Treatment of Osteoarthritis; Arthroscopic Applications in Joint Disease. 73rd Annual Florida Veterinary Medical Association Convention, Orlando, FL, 2002:97-107.

Canapp SO. The Use of Minimally Invasive Surgery in Veterinary Medicine. Proceedings for the Peter Piper Memorial Continuing Education Conference, Caloosa Veterinary Society, Sanibel Island, FL., 2002: 114-121.

SO Canapp, JP Farese, GS Schultz, SF Swaim, JM VanGilder, L Lee-Ambrose, FG Martin, AM Ishak. The Effect of Topical Tripeptide-Copper-Complex in a Model For Chronic Open Wounds. Veterinary Wound Healing Seminar, University of Edinburgh, Scotland, 2002:6.

Canapp SO. Chondroprotective Agents: *Fact or Fiction?* Proceedings of the Peter Piper Memorial Continuing Education Conference, Caloosa Veterinary Society, Sanibel Island, FL., 2001:162-175.

Canapp SO, McLaughlin RM, Roush JK, Kawcak CE, Lillich JD. Serologic levels of Hyaluronan, Osteocalcin, and Collagen 2 $\frac{3}{4}$ in normal dogs and dogs with synovitis. 10th Annual American College of Veterinary Surgeons Symposium, Small Animal Orthopedic Surgery Scientific Session, Crystal City Arlington, Virginia, 2000:4

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK. The effects of Cosequin on acute carpal synovitis in dogs. Proceedings of the Veterinary Orthopedic Society 26th Annual Conference. Sun Valley, Idaho, 1999:43

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK. Scintigraphic evaluation of Cosequin as treatment for acute synovitis in dogs. *Vet Surg* 27:502, 1998

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK. Scintigraphic evaluation of Cosequin as treatment for acute synovitis in dogs. Proceedings of the American College of Veterinary Surgeons Symposium, Small Animal Orthopedic Surgery Scientific Session, Chicago, IL., 1998:5.

Canapp SO, McLaughlin RM, Hoskinson JJ, Roush JK. Scintigraphic evaluation of Cosequin as treatment for acute synovitis in dogs. Proceedings of the Annual Phi Zeta Research Seminar, 1998:15-16.

Book Chapters

Millis, Marcellin-Little DJ, Levine D, Canapp SO. Canine Sports Related Injuries. *Canine Rehabilitation and Physical Therapy, second edition. Published 2013.*

Canapp SO, Kirkby K. Canine Sports Medicine. Forelimb Orthopedic Conditions in the Canine; Hind limb Orthopedic Conditions in the Canine. Zink C & VanDyke J editors. Wiley-Blackwell Publishing. *Published 2013*

Canapp SO,. Orthopedic Surgery Self Assessment. Manson Publishing 2nd Edition. *In progress*

Canapp SO, Canapp D. Complications On Small Animal Surgery. Complications Associated With Rehabilitation. Dominique Griffon, Editor. Wiley Publishing. Chapter 17. *In progress*

Canapp SO, Collins J. Complications On Small Animal Surgery. Complications Resulting From Bandaging, Splints And Orthotics. Dominique Griffon, Editor. Wiley Publishing. Chapter 16. *In progress*

Canapp SO, Gross-Saunders D. Common Orthopedic Conditions in Performance Dogs. *Canine Rehabilitation and Physical Therapy 2nd Edition. In progress*

Canapp SO, Campana D. External Coaptation and Orthopedic Devices. *Small Animal Surgical Practices 1st Edition. Tobias & Johnston. Elsevier Publishing, 2012. Chapter 45.*

Canapp SO. The Canine Stifle. *Clinical Techniques in Small Animal Practice, 22: 195-205, 2007.*

Marcellin-Little DJ, Levine D, Canapp SO. The Canine Shoulder: Selected Disorders and Their Management with Physical Therapy. *Clinical Techniques in Small Animal Practice, 22:171-182, 2007.*

Canapp SO. External Fracture Fixation; Techniques for the Management of Long Bone Fractures. *Clinical Techniques in Small Animal Practice, 2004; 19 (3): 114-119*

Original Non-reviewed Publications:

Canapp SO. Canine Orthopedic Devices. *Clean Run Magazine. In press*

Canapp SO. Osteochondrosis Dissecans (OCD) in Agility Dogs. *Clean Run Magazine. April 2009.*

Canapp SO. Carpal and Tarsal Injuries in Performance Dogs. *Clean Run Magazine. April 2008.*

Canapp SO. Glucosamine and Chondroitin Sulfate with ASU – Joint Health Beyond NSAIDs. Veterinary Forum, April 2008: 34-35

Canapp SO. Hulse D. Jump Down Syndrome. Clean Run Magazine. April 2008.

Canapp SO. On Thin Ice (The Dangers of Winter Injuries Resulting in Hip Flexor Strains). Baltimore Dog Magazine. December 2007.

Canapp SO. Medial Shoulder Instability (Rotator Cuff Injury). Clean Run Magazine. November 2007.

Canapp SO. Rehabilitation Therapy for Cranial Cruciate Ligament Injury in Agility Dogs; Part II. Clean Run Magazine. September 2007.

Canapp SO. Medial Shoulder Instability. Wizard of Paws Journal (Dedicated to Canine Physical therapy), 2007.

Canapp SO. Cranial Cruciate Ligament Injury in Agility Dogs; Part I. Clean Run Magazine. July 2007.

Canapp SO. Joint Protect Agents for Performance Dogs. Clean Run Magazine. May 2007

Canapp SO. Non-responsive Hind Limb Lameness in Agility Dogs: Iliopsoas Strains. Clean Run Magazine. March 2007

Canapp SO. Shoulder Conditions in Agility Dogs. Clean Run Magazine. January 2007;13:65-69.

Canapp SO. Orthopedic Conditions in Sporting and Working Dogs. Wizard of Paws Journal (Dedicated to Canine Physical therapy), 2006; 7: 2-6.

Canapp SO. Canine Arthroscopy: “Where Less Really is More”. American Canine Sports Medicine Association Newsletter, 2005;11:1-3.

GRANT SUPPORT

Canapp SO, Carr BJ, Cox K. Interleukin-1 Receptor Antagonist Protein (IRAP) for the treatment of elbow OA in the canine. Sponosred by Owl Manor. \$20,000. (*in progress*)

Canapp SO, Carr BJ, Cox K. The use of stromal vascular fraction for the treatment of osteoarthritis in dogs. VetraLife Company. \$100,000. (*in progress*).

Canapp SO, Carr BJ, Cox K. The use of OMEGA 7 fatty acids for the treatment of osteoarthritis in dogs. Tersus Pharmaceuticals. \$10,000.

Canapp SO, Mueller S, Cook J. The use of Allogeneic Stem Cells for the Treatment of Elbow Osteoarthritis in Dogs. Sponsored by Advanced Cell Technology, Marlborough,

MA. 2013. \$125,000.

Canapp SO, Barrett J, Canapp D, Ibrahim V, Gavin P. The Effects of Adipose Derived Progenitor Cells and Platelet Rich Plasma Combination on the Healing of Supraspinatus Tendinopathies in Dogs. Orthobiologic Innovations & VOSM Annapolis Junction, MD & VA Tech. Supported by The American Kennel Club Canine Health Foundation. 2013. \$254,509. (*in progress*)

Canapp SO, Love N, Stoller NB. Effect of Bioceramic Material (Consil™) on the Healing of Tibial Plateau Leveling Osteotomy Sites in Dogs. Nutramax Laboratories, Inc., Edgewood, MD. November 2004, \$7500

Canapp SO, Cross AR, Brown MP, Lewis DD, Cook JL, Tran-Son-Tay R, Kawcak CE, Billingham CR, Armstrong D, Hernandez J. Examination of Synovial Fluid and Serum Following Intravenous Injections of Hyaluronan for the Treatment of Osteoarthritis in Dogs. Univ. of Florida Intramural Research Competition, October 2001, \$7,500; American College of Veterinary Surgeons Grant, February 2002, \$2,400; Veterinary Orthopedic Society Grant 2002, \$2,500.

Canapp SO, Farese JP, Detrisac C, Armstrong D, Jones G, Swaim SF. The Effect of Topical Tripeptide-Copper-Complex in a Model for Chronic Open Wounds. University of Florida College of Veterinary Medicine, Resident Research Competition, October 2000, \$4700

Canapp SO, Kuroki K, Kenter K, Tomlinson JL, Cook JL. Examination of Synovial Fluid Following Intra-articular Injections of Hyaluronan for the Treatment of Osteoarthritis in Humans. University of Missouri-Columbia College of Veterinary Medicine Committee on Research, November 1999, \$6,000

Canapp SO, McLaughlin RM, Lillich JD, Roush JK, Hoskinson JJ. Serologic Evaluation of Markers in Articular Disease in Dogs Following Administration of Cosequin DS. Nutramax Laboratories, Inc., May 1999, \$9,989

RESEARCH ACTIVITY:

- 2015-present Interleukin-1 Receptor Antagonist Protein (IRAP) for the treatment of elbow OA in the canine. Sponsored by Owl Manor.
- 2014-present Stromal Vascular Fraction Validation in the Canine. Sponsored by Vetra.
- 2014-present Stem Cell Therapy (Cultured adipose derived or Bone marrow aspirate concentrate) & PRP Combination for the Treatment of Partial Cranial Cruciate Ligament Injury in Dogs. Drs. Jennifer Barrett, Britt Carr, Victor Ibrahim.
- 2014-2015 The Use of Self Suspension Prosthetics in dogs. Drs. Julia Petrovich, Britt Carr, Derrick Campana.

- 2014 The use of Omega 7 Fatty Acids for the Treatment of Osteoarthritis in Dogs. Sponsored by Lochlainn Ó hAimhirgín at Tersuspharma.
- 2014-2015 Canine Platelet Rich Plasma Systems; A Multicenter Prospective Analysis. Drs Britt Carr, David Mason, Katie Cox. VOSM & Las Vegas Veterinary Specialists.
- 2014-2015 Breed Specific Objective Gait Analysis. Drs. Britt Carr, Chris Zink, Katie Cox.
- 2013 The use of Allogeneic Stem Cells for the Treatment of Elbow Osteoarthritis in Dogs. Drs. Stephanie Mueller, James Cook. Sponsored by Advanced Cell Technology, Marlborough, MA.
- 2013-present The Effects of Adipose Derived Progenitor Cells and Platelet Rich Plasma Combination on the Healing of Supraspinatus Tendinopathies in Dogs. Drs. Jennifer Barrett, Debra Canapp, Victor Ibrahim, Christine Zink. VOSM Annapolis Junction, MD. Supported by the AKCCHF; Orthobiologic Innovations, LLC & VOSM.
- 2013 Validation and clinical testing of canine boné marrow and adipose derived stem cell systems; Validation and clinical testing of canine PRP system. Sponsored by Harvest / Terumo, Boston, MA.
- 2013 Validation of Platelet Rich Plasma System in Dogs. Drs. Juliette Hart, Stephanie Mueller. Sponsored by Arthrex, Naples Florida.
- 2012 The Use of Intra-articular Hyaluronic Acid for the Treatment of Elbow Osteoarthritis in Dogs. Drs. Britt Carr, Debra Canapp, Chris Leasure. Supported by Navexx, Orthobiologic Innovations and VOSM, Annapolis Junction, MD.
- 2012 Evaluation of Platelet Rich Plasma for the Treatment of Elbow Osteoarthritis in Dogs. Drs. Stephanie Mueller, Debra Canapp, Christopher Leasure. Supported by PulseVet and VOSM, Annapolis Junction, MD.
- 2012-2014 The Effects of Functional Stifle Braces for Cranial Cruciate Ligament Insufficiency in Dogs. Jeff Collins, OT, Dr. Stephanie Mueller. Supported by k-9 Orthotics.com and VOSM Annapolis Junction, MD.
- 2012 Traumatic Fragmented Medial Coronoid Process (Jump Down Syndrome) in Dogs. Retrospective Study. Drs. Erica O'Donnell, Chris Leasure. VOSM, Annapolis Junction, MD.
- 2012 The Effects of Shock Wave Therapy on Frozen Shoulders in Dogs. Drs. Stephanie Mueller, Erica O'Donnell, Britt Carr, Debra Canapp. Supported by PulseVet and VOSM, Annapolis Junction, MD.
- 2012-present The Effects of Intra-articular Blocking for Assessment of Lameness in Dogs. Drs. Erica O'Donnell, Debra Canapp, Britt Carr, Chris Leasure. VOSM, Annapolis Junction, MD.
- 2011-2012 Supraspinatus Tendinopathy in Dogs; 203 cases. Retrospective study. Drs. Jen

- Brown, Jen Barrett, Debra Canapp, Pat Gavin. VOSM, Annapolis Junction
- 2011 The effects of EXOGEN on the healing of TPLOs in dogs. Drs. Nina Keives, Erica O'Donnell, Juliette Hart. Sponsored by Smith & Nephew.
- 2010 Canine Uni-compartmental Elbow Resurfacing (CUE). Drs. James Cook, Kurt Schulz, Peter Lotsikas. VOSM, Annapolis Junction, MD. Sponsored by Arthrex, Naples Fl.
- 2010 FDA Multi-center Efficacy Trial: Zydax (glucuronoxylan sulfate sodium) for the Treatment of Osteoarthritis in Dogs. Drs. Peter Lotsikas, Debra Canapp. VOSM, Annapolis Junction, MD. Sponsored by Parnell; Fenella Cochrane BVSc, Director, Regulatory & Clinical Science, Alexandria NSW 2015
- 2009-2013 Evaluation of Cultured Adipose Derived Progenitor Cells & PRP Combination for the Treatment of Tendinopathies in Dogs. Drs. Jennifer Barrett, Jenifer Brown. Debra Canapp, Pat Gavin. Marion DuPont Equine Medical Center, Virginia Tech, VA and VOSM, Annapolis Junction, MD.
- 2009 Effect of TRMatrix on the Healing of Tibial Plateau Leveling Osteotomy Sites in Dogs. Drs. Peter Lotsikas, Pat Gavin, Debra Canapp. Supported by IMEX and VOSM, Annapolis Junction, MD
- 2004 Effect of Bioceramic Material (Consil™) on the Healing of Tibial Plateau Leveling Osteotomy Sites in Dogs. Drs. Nancy Love, Pat Gavin, Nicole Stoller, Chris Leasure, C Frondoza VOSM, Ellicott City MD and Dark Horse Telemedicine, Carey NC.
- 2003 Examination of Synovial Fluid and Serum Following Intravenous Injections of Hyaluronan for the Treatment of Osteoarthritis in Dogs. Drs. Alan R. Cross, Murray P. Brown, Daniel D. Lewis, Roger Tran-Son-Tay, Christopher E. Kawcak, R. Clark Billingham, Donald Armstrong, Jorge Hernandez. Departments of Small and Large Animal Clinical Sciences College of Veterinary Medicine, Aerospace Engineering, University of Florida, Gainesville, FL; and the Orthopaedic Research Laboratory, Colorado State University College of Veterinary Medicine and Biomedical Sciences, Fort Collins.
- 2003 The Effect of Topical Tripeptide-Copper-Complex in a Model for Chronic Open Wounds. Drs. James P. Farese, Carol Detrisac, Donald Armstrong, Galin Jones, Steven F. Swaim, Department of Small Animal Clinical Sciences, and Pathobiology, College of Veterinary Medicine, University of Florida; and the Scott-Ritchey Research Center, University of Auburn, College of Veterinary Medicine.
- 1999 Serologic Evaluation of Markers in Articular Disease in Dogs Following Administration of Cosequin DS. Drs. Ron McLaughlin, Jim Roush, Christopher Kawcak*, Jim Lillich, Kansas State University College of Veterinary Medicine, Manhattan, KS, *Colorado State University College of Veterinary Medicine and Biomedical Sciences, Fort Collins, CO. Responsibilities: Writing grant proposal, collecting and processing samples, and analyzing data.

- 1998 Effect of Application Mode of Radiofrequency Energy on Joint Capsular Healing: An *In Vivo* Comparative Study of Treatment by Multiple Passes vs. Paint-Brush Like Motion in a Sheep Model. Drs. Paul Manley, Mark Markel, Yan Lu. Comparative Orthopaedic Research Laboratory, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI. Responsibilities: Assisting and performing arthroscopic procedures with the application of radiofrequency energy, tissue processing and histologic analysis.
- 1998 The Effect of Coxofemoral Joint Modification to Prevent Hip Dysplasia. Drs. Mark Markel, Mandi Lopez, Kei Hayashi, Ryland Edwards. Comparative Orthopaedic Research Laboratory, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI. Responsibilities: Assisting and performing arthroscopic procedures with the application of radiofrequency energy, and subsequent force plate analysis.
- 1998 An *In Vitro* Biomechanical Comparison of Two Interlocking Nail Systems of Osteotomized Equine Third Metacarpal Bones. Drs. Mandi Lopez, David Wilson, Ray Vanderby, Mark Markel. Comparative Orthopaedic Research Laboratory, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI. Responsibilities: Specimen collection and processing, performing interlocking nail placement and osteotomies, and biomechanical testing.
- 1998 The Effect of Monopolar Radiofrequency Energy on Partial Thickness Defects of articular Cartilage. Drs. Mark Markel, Yan Lu, Kei Hayashi. Comparative Orthopaedic Research Laboratory, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI. Responsibilities: Specimen collection, tissue processing, assisting and performing histological analysis and confocal laser microscopy.
- 1996-1998 Scintigraphic Evaluation of Cosequin DS and Cosequin DS – S-adenosyl-L-methionine as Treatments for Acute Synovitis in Dogs. Drs. Ron McLaughlin, James Hoskinson, James Roush, Mike Butine. Kansas State University, College of Veterinary Medicine. Responsibilities: Performing intra-articular injections, administering ^{99m} Technetium-methylene diphosphonate complex, assisting and performing nuclear scintigraphy, performing lameness examinations, maintaining daily records, collecting and analyzing data.
- 1996 The Use of Bioglue Applied Topically For Closure of Skin Incisions. Dr. Steven Swaim, Scott-Ritchey Research Center, Auburn University College of Veterinary Medicine. Responsibilities: Assisting and performing surgical procedures, scanning lesions with the Laser Doppler Perfusion Imager, performing tensiometry, and collecting data.
- 1996 The Effects of Collagen Gel and Collagen Pads on The Healing of Open Wounds. Dr. Steven Swaim, Auburn University College of Veterinary Medicine. Responsibilities: Assisting and performing surgical procedures, treating wounds with collagen dressing, performing planimetry, and collecting data.

- 1996 The Use of Bioelastic-Thromboxane Synthetase Inhibitor-Matrix (B-TSI-M) to Prevent Decubital Ulcers. Dr. Steven Swaim, Auburn University College of Veterinary Medicine. Responsibilities: Anesthetizing dogs, placing casts over the calcaneal tuberosity and evaluating cutaneous pressures.
- 1994 Surgical Procedures and Tethering Systems For Intravenous and Intra-gastric Drug Administration. Dr. Phillip Brown, Johns Hopkins University School of Medicine, Bayview Research Center. Responsibilities: Assisting and performing surgical procedures, constructing intravenous and intra-gastric tethering drug administration systems.
- 1993 Self-injection, Drug Discrimination, and Physical Dependence on Benzodiazepines and Other Anxiolytic/Sedative Drugs. Dr. Nancy Ator, Johns Hopkins University School of Medicine, Bayview Research Center. Responsibilities: Preparing and administering compounds, dependence assessment, physical examinations, programming administration systems and collecting data.
- 1992 Growth Hormone Releasing Hormone Gene Expression in The Hypothalamus. Dr. Larry Walker, Johns Hopkins University School of Medicine, Ross Research Center. Responsibilities: Computer mapping immunocytochemically labeled neuropeptides within the hypothalamus.

ORTHOBIOLOGIC INNOVATIONS, LLC R&D:

- 2016 TransCutaneous Magnetic Stimulation (TCMS) device for the treatment of chronic OA and pain in animals - Zygood Animal Health
- 2016 Veton – Web portal for patient – doctor communications, data collection and diagnostics.
- 2015 Arthroscopic system (Full tower). VIMEX - Everost
- 2015 Arthroscopic instrumentation (Canine specific): Graspers; meniscal punch; cannulas; osteotomes; scissors; suture passer; cannula set - Everost
- 2015 CarpoLock; 316L Stainless steel; low profile, limited contact, pre-contoured, locking pancarpal arthrodesis plate – Everost
- 2015 Mi-Eye Needle Scope; Trice Medical. King of Prussia, PA.
- 2104 EVERVISC; High molecular weight canine specific Hyaluronic Acid as a post-surgical synovial fluid replacement; Anika - Everost
- 2014 PURE Platelet Rich Plasma (PURE-PRP) canine specific; High platelet and monocyte, low neutrophil and red cell; The EmCyte Corporation – Canine Regenerative Therapies

- 2014 Bone marrow aspirate concentrate (BMAC) canine specific. The EmCyte Corporation – Canine Regenerative Therapies
- 2014 Liberty Lock Tibial Plateau Leveling Osteotomy Plate; 316L Stainless steel, pre-contoured, limited contact, locking; 3.5mm Broad; 3.5mm; 3.5mm Mini; 2.7mm; 2.4mm; 2.0mm. Everost.
- 2012 OrthoFiber; Number 2 (5.0 metric) 36” (90 cm) Polyethylene Polyblend Braided Fiber-wire on double ended-straight (2) 60mm Keith Straight needle for Achilles tendon repair; SECUROS Company

VOSM ACADEMY, LLC:

- 2014-present Educational training programs for veterinarians, technicians, and rehabilitation therapists in the areas of sports medicine, regenerative medicine, rehabilitation therapy, diagnostic musculoskeletal ultrasound, arthroscopic procedures.

VOSM ACADEMY CERTIFICATION PROGRAMS:

Seattle, Washington (*in progress*): Dr. Alycia Lamb, Sunset Hills Veterinary Rehabilitation Center, Seattle, Washington.

New Jersey (*in progress*): Mark Magazu, JD, MPA, Saint Francis Veterinary Center, Woolwich Township, NJ.

Germany (*in progress*): Dr. Gereon Viefhues, Tierarztliche Klinik Ahlen. Hamm, Germany.

Italy (*in progress*): Dr. Lili Asnal. Ambulatorio Veterinario “Patagonia”, Nencia, Italy.

Finland (*in progress*): Dr. Tiiu Toijala, Kouvola Finland

Japan (*in progress*): Dr. Taka Kobayashi, Tokyo, Japan.

Australia (*in progress*): Dr. Stephen Fearnside, Small Animal Specialty Hospital (SASH), Sydney, Australia.

NON-PROFIT ORGANIZATION:

Orthopedic Assistance for Animals (OAA): Founder & Chairman

Founded in 2015, OAA is a non-profit foundation dedicated to helping animals with musculoskeletal injuries from rescue organizations, owners with financial hardship and working dog government organizations with significant budget constraints.