Dear DoCS:

Ok, it’s my fault that this newsletter is a bit late. Justine tried to get me in line, but life has been a tad exciting. First my schedule got derailed by a new puppy being added to the house (and there will be no comments about "drunk adopting": it was just one glass of wine at the Saving Grace fundraiser that tipped that decision point). When Justine reminded me again that the newsletter was supposed to be ready to go out, a trip to celebrate Swedish Midsummer and all those annual review visits seemed to get in the way. Then the mountains beckoned over the 4th and here we are. I loved visiting with each of you to find out what you have been doing. As always, you are a busy lot! We continue to grow, with 2 Research Assistant Professor positions recently approved. We wished Suzanne Kennedy-Stoskopf and Rich Redding happy retirements and the Dean decided it was time to make my phased retirement news formal. You are stuck with me as Dept Head until June 30, 2020, but after that I will continue to teach surgery and advocate for my adopted group (EAMS/Aquatic/Zoo/Wildlife). Someone needs to keep reminding the University what a treasure CMAST is! And yes, Craig, I’m working on my bad habit of referring to the "beach" instead of the "coast". We are also formally starting the NCSU Equine Program as Reedy Creek Farm comes online. Please welcome back Jori Vasgaard, who has been tasked with making CVM and CALS play nicely (anyone up for a joint barn painting session?). Practice Plan is looking a bit healthier due to your hard work this spring. A Huge THANK YOU! I hope you have some time to enjoy steamy NC this summer: the students will be back before you know it.

--Lizette

Faculty & Staff Updates

New Employees

- Dr. Megan Burke, Assistant Clinical Professor of Equine Emergency.
- Dr. Kara Walker, Assistant Research Professor of Behavioral Ecology
Dr. John Bonagura, Associate Clinical Professor of Cardiology

**Departing Faculty and Staff**
- Judy Paps retired on January 1, 2019.
- Archana Sharma – March 1, 2019.
- Dr. Suzanne Kennedy-Stoskopf retired on July 1, 2019.
- Dr. Rich Redding retired on July 1, 2019.

**Faculty Recruitment Updates**
- Dr. Hepworth-Warren started as the Assistant Clinical Professor of Equine Internal Medicine on June 27, 2019.
- Dr. Tal Ben-Horin has been hired as the Assistant Professor of Shellfish Pathology and is starting on July 15, 2019.
- Dr. Sarah Townsend has been hired as an Assistant Professor in Small Animal Soft Tissue and Oncologic Surgery and is starting on August 29, 2019.
- We are currently in negotiations with the final candidates for the Equine Orthopedic Surgery and Emergency Critical Care positions.
- We are in the process of recruiting for faculty positions in Small Animal General Practice, Exotics, and Equine Internal Medicine.
- We have postponed the searches for Dentistry and Dermatology. Dentistry will reopen in September 2019 and Dermatology will reopen in January 2020.

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**Awards/Congratulations**

(December 2018 – May 2019)

Dr. Liara Gonzalez was reappointed to 2nd term Assistant Professor of Gastroenterology and Equine Surgery.

Dr. Tara Harrison was reappointed to 2nd Term Assistant Professor of Exotic Animal Medicine.

Dr. April Kedrowicz was promoted to Associate Professor with tenure in Communication Education.

Dr. Duncan Lascelles has been named a Fellow of the Royal College of Veterinary Surgeons. Fellowship is the highest status Membership of the College. Dr. Lascelles will receive the award at the RCVS Fellowship Day in September 2019.

Dr. Greg Lewbart received the 2019 Huffman Leadership Award.

Dr. Sara Lyle received tenure.

Dr. Freya Mowat was reappointed to 2nd Term Assistant Professor in Ophthalmology.

Dr. Sarah Musulin was promoted to Associate Clinical Professor of Emergency Critical Care.

Dr. Ken Royal was promoted to Associate Professor with tenure in Educational Assessment and Outcomes.

Dr. Lauren Schnabel was promoted to Associate Professor with tenure in Equine Orthopedic Surgery.

Dr. Lauren Schnabel was named an NC State University Faculty Scholar.

Dr. Brenda Stevens was promoted to Clinical Professor of General Practice.

Dr. Sandy Tou received the Annabelle Coat of Excellence.

Dr. Marine Traverson’s Cementoplasty Study was awarded $25,000. The funds were donated by Andy’s Army through the CMI Foundation Account.

Dr. Hans Westermeyer was reappointed to 2nd Term Assistant Professor in Ophthalmology.
Dr. Hiroto Yoshikawa was reappointed to 2nd Term Assistant Professor in Radiation Oncology.

Grants Received
(December 2018 – May 2019)


Duffy DJ (PI), Fisher M. Effect of increasing the bite depth of an epitendinous suture on the biomechanical strength of canine tendon repairs in a canine cadaveric translational laceration model. CVM Research Committee intramural grant $10,500.

Eby A, Duffy DJ (PI) Effect of barbed epitendinous suture in combination with a core locking loop pattern for flexor tendon repair in a translational canine cadaveric model. Firestone VPP Grant, $3,000.

Gonzalez LM (PI). The Effects of Storage Method on Intestinal Allograft Immune Profile and Viability, DOD, 2019 (2YR, $1.5M).

Gonzalez LM (PI). Modulation of Reserve Stem Cells in Regeneration of Ischemic-injured intestine, NIH (ORIP, 1R03OD026598-01), 2018 (2YR, $114,000).

Hare B (PI), Gruen M (PI). Longitudinal Cognitive and Emotional Development in Working Dogs. NIH. 5YR, $1.9M.


Lewbart GA (PI). Tourist-Induced Stress in Seabirds in Ecuador. NC State-CVM Global Health Travel Award, 2019, $3,000.


Vadum Inc PR, Olby NJ (PI) for subcontract with NCSU. Working Dog Hearing Protection /Active Communication System. Funded by DOD for $19,461.


Abstracts, Books, Papers Published and Accomplishments
(December 2018 – May 2019)


Schlein LJ, Connolly SL, Moran C, Duffy DJ. Pathology in Practice: Gossypiboma; clinical presentation and diagnostic evaluation in dogs. Manuscript Accepted JAVMA-18-04-0180. Role: Duffy- PI.


Hanley AA, Kedrowicz AA, Hammond S, Hardy EM. (2019). The impact of team communication training on students’ behaviors, perceptions, and team functioning during an introductory surgery course. Journal of
Veterinary Medical Education, 46(1), 45-55. Role: Kedrowicz-Corresponding author.


Maggi RG, Toliver M, Richardson T, Mather T, Breitschwerdt EB. 2018. Regional prevalences of Borrelia burgdorferi, Borrelia bissettiae, and Bartonella henselae in Ixodes affinis, Ixodes pacificus and Ixodes scapularis in the USA. Ticks Tick Borne Dis. 10:360-364.


Castillo A, Hodorovich D, Foster ML, Woychik R, Mowat FM. Characterizing the role of PGC1a transcripts and their effects on mitochondrial function and retinal aging. NC State Undergraduate Research Symposium April 24th 2019 *winner, undergraduate research award, Sigma XI Scientific Research Honor Society.

Parslow V, Avelino J, Bowyer A, Oh A, Foster ML, Bizikova P, Mowat FM. Identification of circulating antiretinal antibodies in dogs with sudden acquired retinal degeneration syndrome using indirect immunofluorescence. NC State Undergraduate Research Symposium April 24th 2019


Mowat FM, Foster ML, Xu F, Loyoza O, Santos J, Woychik R. The role of a neuronal expressed fusion transcript of PGC1a in premature aging of retinal photoreceptors. Gordon Research Conference Mitochondrial Dynamics and Signaling, March 17-22nd 2019, Ventura CA.


Sweet KA, Nolan MW, Yoshikawa H (corresponding author), Gieger TL. Stereotactic radiation therapy for canine multilobular osteochondrosarcoma: 8 cases. Veterinary and Comparative Oncology, 2019 Apr 15. doi: 10.1111/vco.12481. [Epub ahead of print].

Yoshikawa H. Dosimetric assessment of reduction of gross tumor volume by two radiation delivery techniques identifies dosimetric changes to organs at risk. Veterinary Radiology and Ultrasound, in print.

In the News

Dr. Ed Breitschwerdt discusses the ever-fascinating bacteria Bartonella in the NC State podcast.

Dr. Callie Fogle Research Connection.

Dr. Brian Gilger Research Connection.

A stem cell therapy first used in a study by Drs. Brian Gilger and Lauren Schnabel shows strong promise in treating a chronic equine eye disease.

How do pets show love? Dr. Margaret Gruen counts the ways.

Dr. Margaret Gruen Research Connection.

Dr. Steve Marks talks with WRAL about what to do if your pet is bitten by a snake.

Dr. Freya Mowat earns NIH career grant for innovative eye research.

A study led by Dr. Kate Meurs has identified a gene associated with a common cause of heart disease in Dobermans, which would lead to new therapies for dogs and humans.

Dr. Amy Snyder, Amanda Bates and Andrew Rotz launch PawCast, a podcast with advice on career development, personal finance and veterinary business skills.

Study co-authors Drs. Brenda Stevens and Ken Royal discuss using salivary science to measure student stress during surgery training.

Dr. Brenda Stevens talks with ABC 11 about what pet owners should know about CBD products.

Dr. Marine Traverson Research Connection.

Clinical study from Drs. Matthew Breen, Shelly Vaden and Claire Wiley to test innovative cancer detection tool, seeks participants.

What is it like to give polar bear anesthesia for 8 hours? Dr. Alessio Vigani is on the few veterinarians who know.
Cataract surgery performed by Dr. Hans Westermeyer restores vision for two beloved pet rabbits.

Dr. Hans Westermeyer discusses launching a study identifying anatomical features that predict when a glaucoma attack will occur.

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**Staff, Post-doc, Graduate Student & Resident News**

Dr. Nanelle Barash, Internal Medicine Resident, received the Honeycutt Coat of Excellence.

Dr. Alix Berglund was awarded an AAII Careers in Immunology Fellowship.

Dr. Kaori Davis won the best abstract prize for her oral abstract presentation at the European Academy of Allergy and Clinical Immunology Annual Congress.

Dr. Lauren Green, Neurology Resident, received the Cooper Aikin Coat of Excellence.

Hedgpeth M. (2019, January). Multiple-choice questions: Do yours make the cut? Session presented to the Eshelman School of Pharmacy faculty at the University of North Carolina, Chapel Hill, NC.

Hedgpeth M. (2019, May). Multiple-choice questions: Do yours make the cut? A hands-on workshop for the Eshelman School of Pharmacy’s Center for Innovative Pharmacy Education & Research at the University of North Carolina, Chapel Hill, NC.

Julie Nettifee was the recipient of the Earl Rippie Veterinary Nurse Scholarship through NAVC in January 2019.

In March, Laura Ruterbories’ Veterinary Technician Specialist application in Laboratory Animal Medicine was accepted by the ALAVTN - one of just two in the country for the 2018 application year. She is the first and currently only registered veterinary technician in North Carolina to pursue this specialty!

Alicia Schubert from the Schnabel Lab was awarded the Richard L Blanton Outstanding Capstone Award 2019.

Alicia Schubert from the Schnabel Lab won 1st place at the NC State University CALS Undergraduate Research Day Competition 2019.

Alicia Schubert from the Schnabel Lab was awarded outstanding poster at the Undergraduate Research Symposium, Spring 2019.

Dr. Amy Stewart, PhD Candidate, received the Boehringer Ingelheim Veterinary Graduate Award.

Dr. Amy Stewart, PhD Candidate, also received the Monica Menard Memorial Award for Excellence in Veterinary Pathobiology Research.

Dr. Amy Stewart, PhD Candidate, also received the AAEP Past Presidents’ Research Fellow Award.

Sara Tuft, Veterinary Student, AVMA/AVMF proposal selected for competition.

Dr. Amanda Zielger presents her findings on how firocoxib can help equine colic patients.

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**Personal News**

Eva and Jay Cook welcomed baby boy Wilkins Paul on March 8th!
Kent and Danielle Passingham welcomed baby boy Hayden on May 17th!

Drs. Stephanie Williams and Andy Stringer welcomed baby boy Henry Arthur Stringer on Valentine’s Day!

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**Who Am I**

**Dr. John Bonagura, Associate Clinical Professor of Cardiology**

John Bonagura, DVM, DACVIM (Cardiology, Internal Medicine) is Professor Emeritus of Veterinary Clinical Sciences at the Ohio State University College of Veterinary Medicine, where he has spent the majority of his career. Dr. Bonagura has been Visiting Research Fellow at the University of Edinburgh and served as Gilbreath-McLorn Endowed Professor of Veterinary Cardiology at the University of Missouri from 1996 through 2001 before returning to Ohio State. His research interests include echocardiography and his clinical cardiologic interests extend across species.

Dr. Bonagura is a native North Carolinian who was raised in New Jersey and has spent most of his life residing in Columbus Ohio. He is excited about coming to Raleigh and is looking forward to working with faculty, staff and students at the NC State College of Veterinary Medicine. Dr. Bonagura enjoys skiing, board sailing, and travel.

**Dr. Megan Burke, Assistant Clinical Professor of Equine Emergency**

She transitioned from her Clinical Veterinarian position to her new role!
Dr. Kara Walker, Assistant Research Professor of Behavioral Ecology

Dr. Walker completed her undergraduate degree in Animal Behavior at Bucknell University and her Ph.D. in Evolutionary Anthropology at Duke University. Following graduation she continued on as a post-doctoral researcher at Duke and became a Lecturer in the Department of Anthropology at NCSU until coming to the CVM. Her research specialty is in behavior and ecology of mammals and her doctoral and post-doctoral work focused on understanding sociality in female chimpanzees at Gombe National Park, Tanzania.

When Dr. Walker is not at work, she enjoys hiking, reading and traveling to far-flung places. She shares her home with her husband, Chris, son Bennett (3.5 years) and daughter, Madeleine (18 months).

Other News and Updates

Drs. Clarke Atkins and Bruce Keene discuss the impact of the Jane Lewis Seaks Distinguished Professorship in Companion Animal Medicine.

Two research projects with CVM authors among those cited as the most innovative equine studies of past year.

Dr. Sathya Chinnadurai, former Zoological Medicine and Anesthesia resident at NCSU CVM accepted the position of Director of Animal Health at the St. Louis Zoo.

ezyVet has been selected as the core program for the VH’s electronic medical record and hospital information system.

UNC-TV visits the Turtle Rescue Team for an inside look at rehabilitation efforts.

Dr. Kyle Mathews celebrated a big birthday this year!

Justine Tillerson, Newsletter Editor
Next Issue: Summer/Fall 2019