

5th Scientific Meeting ECVSMR 2024

EUROPEAN COLLEGE OF VETERINARY
SPORT MEDICINE AND REHABILITATION

16th-18th of October
CORDOBA | SPAIN

ORGANIZING COMMITTEE

Jose Luis López Rivero
María Martín Cuervo
David Argüelles Capilla
Ana Muñoz Juzado
Tatiana Hernández Fernández
Mila Benito
Joao Alves
Juan Manuel Domínguez Pérez

PRELIMINARY PROGRAM ECVSMR CÓRDOBA 2024

EQUINE PROGRAM

Workshops (Rabanales University Campus)

Wednesday October 16, 2024

09-12:30 h	Muscular wet lab (University Clinical Veterinary Hospital)	
	Muscle biopsy: how to do it and sent it	R. Piercy
	EMG examination: indications and how to do it	I. Wijnberg
	Imaging muscle disorders	J. M. Denoix

12:30-14:00 h **Lunch**

14:00-16:30 h	Rehabilitation techniques (University Equine Sports Medicine Center)	
	Physical therapies	A. Muñoz and D. Argüelles
	Updating of rehabilitation techniques	K. Haussler
	Devices available to rehabilitate horses	S. Cokelaere

16:30-17:00 h Coffee break

17:00-16:30	Resident forum (University Clinical Veterinary Hospital)
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Main program (Rectorate of the University of Cordoba - Former Faculty of Veterinary Medicine)

Thursday October 17, 2024

08:00-08:45 h **Registration**
08:45-09:00 h **Opening ceremony**

SESSION I Muscular problems

<i>Chair</i>	E. Aguilera-Tejero, University of Cordoba	
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09:00-09:30 h	<i>Keynote speaker.</i> Diagnosis and management of exertional rhabdomyolysis	S. Valberg
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09:30-10:00 h	Oral presentations x2	
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10:00-10:30 h **Coffe break**

10:30-11:00 h	Assessment of skeletal muscle oxidative capacity for training monitoring, fitness evaluation and detection of mitochondrial dysfunction in sport horses.	D. Votion
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11:00-11:30 h	Phenotypic variation in equine recurrent exertional rhabdomyolysis	R. Piercy
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11:30-12:00 h	Diagnosis and management of other external myopathies	S. Valberg
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12:00-13:00 h **Annual General Meeting**

13:00-14:00 h **Lunch, Poster session**

SESSION II Sport medicine

<i>Chair</i>	A. Muñoz, University of Cordoba	
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14:00-14:30 h	<i>Keynote speaker.</i> Nutrition in high level sport horses: speed vs endurance	I. Vervuert
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14:30-14:50 h	Hot topics in endurance horses (thumbs, cardio, etc..) from the point of view of internal medicine	E. J. Cunilleras
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14:50-15:10 h	Hot topics in dressage horses from of point view of musculoskeletal system	A. Boado
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15:10-15:30 h	Hot topics in showjumpers and three-day eventers from of point view of musculoskeletal system	J. M. Romero
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15:30-16:00 h **Coffee break**

16:00-16:20 h	Hot topic in dressage, showjumpers and three-day eventers from of point view of internal medicine	E. van Erck
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16:20-16:40 h	Oral communications, x2	
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16:40-17:00 h	<i>Round table:</i> Dopping in sport horses FEI vs racehorses regulations?	C. Termine, M. J. Rodríguez and M. Varela
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Main program (Rectorate of the University of Cordoba - Former Faculty of Veterinary Medicine)

Friday October 18, 2024

SESSION III Updating diagnosis

<i>Chair</i>	M. J. Rodríguez, Spain	
09:00-09:30 h	<i>Keynote speaker.</i> Flash diagnosis of the cardiac problems (Flash US thorax and heart; Flash ECK)	C. Navas
09:30-10:00 h	Imaging head and neck in the neurological sport horse	G. Manso

10:00-10:30 h **Coffee break**

10:30-11:00 h	Poor performance: specific tests according with the discipline	E. van Erck
11:00-11:30 h	Diagnosis of the cervicothoracicobrachial syndrome	J. M. Denoix
11:30-12:00 h	Oral communications, x 2	
12:00-12:30 h	The horse that collapses	C. Navas
12:30-13:00 h	Diseases that can be diagnosed by EMG	I. Wijnberg

13:00-14:00 h **Lunch, Poster session**

SESSION IV Rehabilitation and therapies

<i>Chair</i>	D. Argüelles, Univesirty of Cordoba	
14:00-14:45 h	<i>Keynote speaker.</i> Update of rehabilitation techniques	K. Haussler
14:45-15:15 h	Regenerative therapies: state of the art and critical update	S. Cokelaere
15:15-15:45 h	Oral communications, x2	

15:45-16:15 h **Coffee break**

16:15-16:45 h	Equine myofascial therapy/techniques	K. Haussler
16:45-17:15 h	Biomechanical bases of equine rehabilitation	J. M. Denoix
17:15-17:45 h	Kinesiotaping applications on sport horses	S. Mikail

17:45-18:00 h **Closing ceremony**



SMALL ANIMALS PROGRAM

Workshops (Rabanales University Campus)

Wednesday October 16, 2024

09-12:30 h	Electroacupuncture: complementary therapy for pain management and neuropathies (University Clinical Veterinary Hospital)	
	<ul style="list-style-type: none"> • Analgesic electrotherapy options: how to apply invasive TENS • Neuromodulation for axial pain management • Neuromodulation for hip pain management • Acupoints for neuropathies management 	Z. Vrbanac, M. Mucha and T. Hernández

12:30-14:00 h **Lunch**

14:00-16:30 h	Exercise tests for monitorization of training (University Clinical Veterinary Hospital)	
	<ul style="list-style-type: none"> • Introduction to monitorization of training • Understanding exercise test: practice examples • Elaboration of training program based on results • How the to introduce the companion dog to sport exercise 	J. Alves, M. Mila and N. Pastor

16:30-17:00 h **Coffee break**

17:00-17:30 **Resident forum** (University Clinical Veterinary Hospital)

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Main program (Rectorate of the University of Cordoba - Former Faculty of Veterinary Medicine)

Thursday October 17, 2024 / Sport Medicine

08:00-08:45 h **Registration**
08:45-09:00 h **Opening ceremony**

SESSION I Sport dogs: dogs with a big heart

<i>Chair</i>	D. Grandjean, France	
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09:00-09:30 h	<i>Keynote speaker.</i> Sport and working dogs: historical veterinary vision	D. Grandjean
09:30-10:00 h	Oral presentations x2	

10:00-10:30 h **Coffe break**

10:30-11:00 h	The role of veterinarians in dog sports competitions	S. Maffi
11:00-11:30 h	Cardiovascular system in sporting dogs: physiological adaptations and their recognition	M. Benito
11:30-12:00 h	Round table on Comparative sports medicine - Cardiology	A. Boraita, S. Maffi and C. Zink

12:00-13:00 h **Annual General Meeting**

13:00-14:00 h **Lunch, Poster session**

SESSION II Training and introduction to sport

<i>Chair</i>	G. del Pueyo, University Complutense of Madrid	
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14:00-14:30 h	<i>Keynote speaker.</i> Rehabilitation of sport dogs: how to return to competing	S. Maffi
14:30-15:00 h	Elaboration of training programs: how to apply in our practice	J. Alves
15:00-15:30 h	Oral communications, x2	

15:30-16:00 h **Coffee break**

16:00-16:30 h	Hot topics in agility dogs	C. Zink
16:30-17:00 h	Hot topics in canicross dogs	C. Zink

Main program (Rectorate of the University of Cordoba - Former Faculty of Veterinary Medicine)

Friday October 18, 2024 / Rehabilitation

SESSION III Neurology rehabilitation

Chair B. Bockstahler, University of Veterinary Medicine Vienna

09:00-09:30 h	<i>Keynote speaker.</i> Neurology patient: evolution of the rehabilitation review of last 15 years.	G. del Pueyo
09:30-10:00 h	Rehabilitation of in the neurology patients: new tendencies	A. Martins

10:00-10:30 h Coffee break

10:30-11:00 h	Rehabilitation of atypical cases in the neurology patient	A. Martins
11:00-11:30 h	Biomechanics applied to neurological patients	B. Bockstahler

SESSION IV Cardiology and rehabilitation

Chair M. Benito, University of Valencia

11:30-12:00 h	Oral communications, x 2	
12:00-12:30 h	Rehabilitation in patients with heart disease: monitoring and limits.	G. del Pueyo
12:30-13:00 h	Cardiac rehabilitation in veterinary patients	A. Martins

13:00-14:00 h Lunch, Poster session

SESSION V Complementary therapies

Chair M. Mucha, Outpatient Clinic for Physical Therapy and Rehabilitation, Vetmeduni, Vienna

14:00-14:45 h	<i>Keynote speaker.</i> Ozone therapy: evidence and how can help to our rehabilitation patients	M. Portero
14:45-15:15 h	Acupuncture: evidence and how can help to our rehabilitation patients	Z. Vrbanac
15:15-15:45 h	Oral communications, x2	

15:45-16:15 h Coffee break

16:15-16:45 h	Phytotherapy: evidence and how can help to our rehabilitation patients	L. Graham
16:45-17:15 h	Kinesiotaping: evidence and how can help to our rehabilitation patients	S. Mikail
17:15-17:45 h	Round table on Integrate complementary therapies to rehabilitation programs	M. Portero, Z. Vrbanac and L. Graham

17:45-18:00 h **Closing ceremony**



Lecturers Equine program

Richard Piercy

Richard qualified from Cambridge University in 1994. After two years in private equine practice he moved to the USA and completed a residency in equine internal medicine at The Ohio State University and a Master of Science degree in canine muscle physiology and disease. He returned to the UK to complete doctoral training in molecular and cellular biology of neuromuscular diseases as a Wellcome Fellow at the Dubowitz Neuromuscular Centre, Imperial College from where he attained his PhD. Richard's research interests include comparative aspects of primary muscle disorders, including exertional rhabdomyolysis, polysaccharide storage myopathy and atypical myopathy in horses, centronuclear myopathy and dystrophin-deficient muscular dystrophy in dogs. His laboratory also has a growing international programme of research into recurrent laryngeal neuropathy in horses ("roaring"). Most research is laboratory-based, using cell and molecular biological techniques. Richard directs the Comparative Neuromuscular Disease Laboratory, which provides a service for the histopathological assessment of muscle biopsy samples from veterinary clinical cases across Europe. Richard's teaching interests include the subjects of muscle physiology and exercise physiology particularly comparative aspects between species. He teaches vet students neurology in the clinical parts of the course and in the clinic. Richard runs the Comparative Neuromuscular Diseases Laboratory which receives diagnostic neuromuscular samples sent in by vets across Europe from pets with neuromuscular conditions. In the clinical hospital, Richard consults on equine neuromuscular diseases, including exertional rhabdomyolysis (tying up), gait abnormalities, spinal ataxia (Wobbler syndrome), seizures and other neurological and muscular problems of horses.

Inge Wijnberg

Inge D. Wijnberg, graduated in 1990 "with honor's" as veterinarian at the University of Utrecht. Her H index is 24 and RG score 34.4. Her DVM degree included additional doctoral degrees for her almost one year study program in the USA in 1988-1989. After working in private practice and a short period at the department of Immunobiology at the RIVM she started in 1995 as Resident Equine Internal Medicine at the Department of Large Animal Internal Medicine and Nutrition at Utrecht University. A three months training under supervision of Professor Reef (University Pennsylvania, USA) in echography, echocardiography and cardiology was part of the trainee program in 1996. In 2000 she became RNVA Specialist Equine Internal Medicine. In 2002 she defended her PhD entitled "the diagnostic possibilities of EMG needle examination in the horse" and received the Doctor degree at UU in Veterinary Medicine. In 2003 a permanent position as assistant professor UU was obtained and in 2004 the registration as Specialist EVCS in the ECEIM register was a fact. Her focus in clinics are infectious diseases, cardiology, neuromuscular diseases and neonatology. She coordinated the Neonatal Foal Intensive Care Unit from 1996-2016. Until September 2016 she was chairman of the Bachelor program "Circulation" of the Faculty of Veterinary Medicine, Utrecht University. From 2003- 2016 she was (co)organizer of the Bachelor program "Clinical Reasoning and Clinical skills" Veterinary Medicine and member of the working group bachelor Respiratory diseases and neurology. Other activities were member of the Education committee, Quality Committee for educational qualification, active member of the University Labour Representation Board, education Advisory Committee. She is a member of the ECEIM exam question writing group. She has been visiting professor at the University of Brno, Czech Republic and St George University Grenada West Indies, Buenos Aires and trained many specialist over the world in many international workshops and courses. She initiated and participated in several national and international research projects, occasionally involving other species and is Chief Specialty Editor for Frontiers in Veterinary Medicine

Section Comparative and Clinical Sciences. With her as (co-) author over 80 scientific publications and over 40 congress abstracts have been published. She initiated and supervised three PhD tracts. Since September 2016 continues her UU work for 1 day per week and she participates in the emergency shift on a regular basis. In addition she works fulltime as Senior advisor for the Coordination Expert Centre working circumstances and preventive health for the Ministry of Defence in the cluster (micro)biology and infectious diseases. Topics include Bioterrorism, transport hygiene, diagnostics field detection of infectious agents, and military working animals. In this position she is also active as representative expert for the Ministry of Defence in several NATO panels (FWSVS, C-IED MWD working group and BIOMED-P). She is governmental senior advisor for the MOD in the EDA CAPtech CBRN and HF. Other tasks are project management on research projects on bio- diagnostic, biodetection and outbreak management in cooperation with other (research) partners such as TNO, RIVM, and Biotrack.

Jean Marie Denoix

A horse physiotherapist of international repute and renowned leader in equine anatomy and imaging, Dr. Jean-Marie Denoix has mentored many around the world throughout his career. Born in France in 1954, Dr. Denoix grew up helping his father on commercial fishing boats off the coast of Normandy while he finished his education. He studied anatomy and veterinary medicine, graduating from veterinary school in Lyons in 1977. Professor Denoix went on to study anatomy, imaging, and biomechanics, lecturing extensively on these subjects in 30 countries. Dr. Denoix is Professor of Veterinary Anatomy and Equine Locomotor System Pathology and Rehabilitation at the National Veterinary School in France, an ACVSMR Diplomate and Founding Diplomate of the European College of Veterinary Sport Medicine and Rehabilitation. He has pioneered some of equine medicine's most innovative techniques in imaging, particularly ultrasound, and has communicated this new information via numerous lectures, books and more than 40 peer-reviewed publications. Dr. Denoix has donated his time to being the imaging specialist at two World Equestrian Games to further the welfare of the horse in sport. He has worked with multiple farrier organizations to help farriers better understand the anatomy and biomechanics of the equine hoof. His functional anatomy books have helped veterinarians and veterinary students understand the anatomy of the foot and entire horse in a level of detail and comprehension not accomplished previously. Through his work with the International Society for Equine Locomotor Pathology, he has taught in concentrated three-day blocks to 10,000 veterinarians around the world, furthering their clinical abilities. Dr. Denoix has been a principal figure in the advancement of equine musculoskeletal diagnostics. His vast knowledge of equine anatomy coupled with his enthusiasm for diagnostic imaging, particularly ultrasound, has opened new doors for understanding pathophysiology of equine musculoskeletal disorders. Through his teaching and publications, he has enabled practitioners throughout the world to practice an advanced level of diagnostic medicine not previously thought possible.

Gabriel Manso

Degree in Veterinary, obtaining the Extraordinary National Award, Master in Research in Veterinary Sciences and Doctor in Veterinary Medicine with European mention, obtaining the Extraordinary Doctorate Award. He completed an official European residency in Diagnostic

Imaging of Large Animals at the Royal Veterinary College of the University of London, obtaining the title of Diploma by the European College of Veterinary Imaging (ECVDI). In addition, he has carried out multiple specialized training stays in prestigious centers in the United States and the United Kingdom. Author of several indexed scientific articles, books and communications in congresses in the field of veterinary imaging, highlighting the area of cranial, spinal and abdominal equine imaging. Regular speaker at numerous courses, workshops and congresses of this specialty at an international level.

Kevin Haussler

Kevin K. Haussler, DVM, DC, PhD, Dipl. ACVSMR, graduated from The Ohio State University College of Veterinary Medicine in 1988 before completing a small animal internship. To further his training in conservatively managing spinal-related disorders, he pursued human training at Palmer College of Chiropractic-West and completed a veterinary chiropractic certification program in 1993. He completed his PhD, focusing on spinal pathology and pelvic biomechanics in Thoroughbred racehorses, from the University of California, Davis, and then studied equine spinal kinematics at Cornell University. While at Cornell, he directed the newly formed large and small animal Integrative Medicine Service. Currently, Haussler is an associate professor at the Colorado State University (CSU) Orthopaedic Research Center, where he's involved in teaching, clinical duties, and researching. He is a charter diplomate of the American College of Veterinary Sports Medicine and Rehabilitation and a course instructor for the Equine Rehabilitation Certification course, co-branded by the University of Tennessee and CSU.

Stefan Cokelaere

Doctor Stefan Cokelaere originates from Belgium and graduated from vet school at the University of Ghent in 2001. After his study, he did multiple externships abroad including in London, Ontario (Canada), Newmarket (United Kingdom) and in Ohio (United States of America). Furthermore, Stefan completed a year long internship at the Veterinary Clinic de Bosdreef in Moerbeke-Waas (Belgium). From 2002-2005, Stefan completed a large animal surgical residency at the University of Ghent. In 2007, he received his diploma as European Specialist Surgery (Diplomate ECVS – European College of Veterinary Surgeons). After his residency, Stefan worked for 2 years as a specialist in surgery and orthopedics at Veterinary Clinic De Morette (Asse, Belgium) and at Veterinary Clinic de Bosdreef (Moerbeke-Waas, Belgium). In 2008, Stefan moved to the Netherlands and worked there for more than 10 years at the University Clinic for Horses at the University of Utrecht. There Stefan was a senior surgeon in the surgery department and he was responsible for equine surgery and orthopedics. His main interest lies in orthopedics (lameness and vertebral column problems), sports medicine, rehabilitation and orthopedic surgery. After training for 2 years, Stefan received the FES (Focus on the Equine Spine) diploma for equine chiropractics in 2010. In 2016, Stefan also received board certification for the American sports medicine and rehabilitation (Diplomate of the American College of Veterinary Sports Medicine and Rehabilitation). Stefan wrote several scientific articles and is currently finalizing his Doctoral thesis regarding new surgical and medical treatments of joints. Starting November 1st, 2018, Stefan is working at SMDC (Sporthorse Medical Diagnostic Centre).

Stephanie Valberg

Stephanie Valberg, the Mary Anne McPhail Dressage Chair in Equine Sports Medicine, is professor and director of the Neuromuscular Diagnostic Laboratory. She received her DVM from the University of Guelph Ontario Veterinary College and her PhD in equine exercise physiology from the Swedish University of Agricultural Sciences. She is board certified in large animal internal medicine and veterinary sports medicine and rehabilitation. Valberg is an international leader in understanding and managing equine neuromuscular disorders. The overarching goal of Valberg's research and clinical work is to define the basis for neuromuscular disorders in horses, develop accurate, minimally invasive diagnostic tests, and produce optimal methods for preventing or managing performance limiting diseases. Valberg's work in equine muscle disease has transformed equine clinical practice. Her research has led to the discovery of previously unknown muscle disorders, identification of their genetic basis, and development of nutritional strategies to minimize muscle pain. Valberg is widely published, and has mentored graduate students, interns, residents, and post-doctoral students and is a recipient of numerous awards such as



the 2014 Richard Hartley Clinical Award from the British Equine Veterinary Association for her research linking seasonal pasture myopathy to box elder tree seeds. In 2012, Valberg became the first woman to be inducted into the Equine Research Hall of Fame. She has twice received the Pfizer Research Excellence Award, and in 1998 received the EquiSci International Award, an honor presented every four years to the individual whose work most significantly impacts equine exercise physiology research.

Dominique Votion

Dominique-Marie Votion is researcher at the Fundamental and Applied Research for Animals & Health (FARAH) at the Facul of Veterinary Medicine, Liege University (Belgium). She conducts researches that aim at validating new tools for studying the pathophysiology of equine myopathies. In 2005, she has initiated the “Atypical Myopathy Alert Group” (AMAG), an informal European epidemio-surveillance network consisting of European equine veterinarians and researchers concerned by the condition. This European network aims to favour the quick diffusion of alert message from the scientific field to the equine sector thus favouring the setting of preventive measures edited from ongoing epidemiological investigations. Her interest for the muscle in healthy and myopathic horses includes the study of the mitochondrial function and since 2007, she is an active member of the Mitochondrial Physiology (MiP) society. She has validated the technique of high-resolution respirometry in horses that enables to monitor the mitochondrial respiratory function in small permeabilized muscle samples.

Ingrid Vervuert

Professor Dr. med. vet. Ingrid Vervuert. Veterinarian Animal Nutrition and Dietetics. Acting Head of Initiated on Animal Nutrition, Nutritional Damage and Dietetics. Dr. Vervuert is a Doctor of Animal Nutrition and habilitated for animal nutrition and dietetics. Since 2016, she has been responsible for the entire range of tasks of the institute in teaching and she is a long-standing head of the service sector. To expand her teaching competence, she has completed a highly debt-acting certificate program. Her research activities focus on the area of obesity and the development of feeding concepts for the prevention of stomach ulcers in farm animals with a focus on horses. In addition, she is involved in a recent project with the occurrence of pyrrolizidine alkaloids in supplementary feeds for horses. In June 2019, she was appointed as adjunct professor.

Eduard J. Cunilleras

Eduard José Cunilleras received his Veterinary Sciences degree from the “Universidad Autónoma de Barcelona” (UAB) in 1997. He was awarded a “la Caixa” Foundation 2-year scholarship for postgraduate studies and joined the Veterinary Teaching Hospital at The Ohio State University, where he completed a 1 year Internship in Equine Medicine and Surgery (1998) and a 3 year Residency program in Equine Internal Medicine. He became “Diplomate of the American College of Internal Medicine (subspecialty Large Animal Internal Medicine) in 2001. He undertook a PhD program in Veterinary Medicine, involving carbohydrate metabolism in exercising horses, being awarded his PhD degree in 2004. His postdoctoral studies were pursued at “The Animal Health Trust” in Newmarket, UK, where he joined the Equine Sports Medicine and Cardiorespiratory team lead by Dr. Lesley Young and Dr. Dave Marlin. In early 2006, Dr. José Cunilleras went on to develop his professional career as specialist in equine internal medicine at a private equine veterinary hospital (Donnington Grove Veterinary Group, Newbury, UK), and in early 2007 moved to Cliffe Equine Vets, Lewes, UK). In late 2008, he joined the Dept. of Animal Medicine and Surgery at the UAB as Assistant Professor (“Profesor Lector”) in Equine Medicine. In 2014, Dr. José Cunilleras became Associate Professor (“Profesor Titular”) in Equine Medicine at the UAB. With regard



to research, he has a diverse scientific profile focused in two areas: equine internal medicine and infectious diseases, specifically inflammatory and coagulation disorders and infectious bacterial and viral conditions; and equine and comparative sports medicine, more specifically carbohydrate and lipid metabolism during exercise and fluid and electrolyte disorders. He is currently a member of the “Infectious and inflammatory diseases of companion animals” research group recognized by AGAUR-Generalitat de Catalunya. His research output has resulted in over 60 peer-reviewed research articles, most of them in journals of the top quarter within the Veterinary Sciences area, such as Journal of Veterinary Internal Medicine, Equine Veterinary Journal, Journal of Applied Physiology, etc. He has contributed with 8 bookchapters in renowned textbooks: Equine Internal Medicine (Reed, Bayly & Sellon), Equine Sports Medicine and Surgery (Hinchcliff, Kaneps & Geor) and Five-minute Veterinary Consult: Equine (Lavoie). He has presented over 80 abstract and posters at national and international conferences, and has been invited to lecture at 8 national and international conferences (Congress of the European Veterinary Emergency and Critical Care Society, Congreso Iberoamericano de Asociaciones de Veterinarios Especialistas en Équidos etc). He has participated in 7 publicly and privately funded research projects and 5 research contracts.

Ana Boado

Her vocation began at age 5 when he started with a special interest in horses. After riding horses for years in both the United States and England and taking several courses as a riding instructor, she decided to study veterinary medicine to dedicate herself to the world of horses. After graduating from the Complutense University of Madrid and doing several years of internship in Spain in equine medicine and surgery, she had the opportunity to do an internship at the Animal Health Trust in Newmarket, UK under the supervision of Dr. Sue Dyson, one of the most prestigious specialists in traumatology in the equine veterinary world. Most of the cases were difficult cases referred from the United Kingdom and Europe, of different modalities, both racing, jumping, dressage and complete. In addition to having the opportunity to work with the best, she was fortunate to be trained in performing MRIs, trauma surgeries, scintigraphy and other diagnostic and treatment techniques. After this year of experience, Ana worked in a general equine clinic in North London to gain experience and be eligible for a residency. Later she completed 4 years of residency in the Surgery and Traumatology service of the Edinburgh Horse Hospital with a large casuistry of musculoskeletal pathologies and about 2000 cases per year. Responsible for the interpretation of magnetic resonances. The hospital had two operating rooms, scintigraphy, resonance and all the necessary means. She subsequently sat for the Certificate in Equine Traumatology examination from the College of Veterinary Surgeons of the United Kingdom. After that she obtained the diploma (specialty title) both European and American. Owner of an exclusive specialized and reference service for diagnosis and treatment of musculoskeletal problems, diagnosis of performance problems and recovery from injuries in the horse, as well as a second opinion and support service for other veterinarians.

Jose Manuel Romero

Jose Manuel Romero has a degree in veterinary medicine from the Complutense University of Madrid (1979). He has extensive experience in the diagnosis and treatment of musculoskeletal injuries in sport horses. He has been a veterinarian for the Spanish Olympic Team in Seoul 88 and Barcelona 92. He is a veterinarian of the Villa de Madrid Country Club and FEI Official Veterinarian in the disciplines of Jumping, Dressage and Eventing as well as Allowed Treating Veterinarian He is a diplomate of the American and European College of Sports Medicine and Rehabilitation and Certified Member of ISELP. He is the author of numerous scientific articles and book chapters and a regular speaker at national and international conferences.

Emmanuel Van Erck

Dr Emmanuelle Van Erck - Westergren graduated from the Ecole Nationale Vétérinaire de Maison Alfort (France) in 1996. She did a PhD on respiratory functional tests in horses at the Veterinary Faculty of the University of Liege (Belgium). Her work led her to participate to research projects in Equine Sports Medicine at Cornell University (USA) and at Uppsala University (Sweden). These experiences triggered her passion for equine sports medicine. In 2000, she became Senior Consultant at the Centre for Equine Sports Medicine at University of Liège where she dealt with referred cases in sports medicine, participated to numerous research projects and collaborated to the training of veterinary students. In 2007, she was invited to develop the equine internal and sports medicine unit in the CIRALE in Normandy (France). Emmanuelle became a de facto diplomate of the European College of Equine Internal Medicine (ECEIM) in 2008 and was subsequently acknowledged as European specialist in Equine internal medicine by the Order of Veterinarians.; In 2010, she was invited to be a board member of the International Committee at the International Conference on equine Exercise Physiology (ICEEP), an internationally recognised organisation in Equine sports medicine. Emmanuelle is author of more than 40 scientific articles and regularly lectures at international scientific meetings. She is member of the board of the Belgian Equine Practitioner Society (BEPS) and on the scientific committee of the French Association of Equine Veterinarians (AVEF). She continues to collaborate to applied research projects in Equine Sports Medicine, to teach clinical training for the veterinary students and practitioners and to contribute regularly writing in both scientific and lay reviews. She was appointed Team Vet for Belgium in 2015 and was elected president of the Belgian Equine Practitioner Society (BEPS) in 2019.

Cristobal Navas

Dr. Navas received his veterinary degree from the UCH-CEU University in Valencia, Spain, Phd from UAB, Barcelona, Spain and Masters Of Veterinary Clinical Medicine from the University of Illinois. He completed a residency in Equine Internal Medicine (University of Illinois) and Fellowship in Cardiology and Ultrasound (University of Pennsylvania) and is a Diplomate of the American College of Veterinary Internal Medicine since 2009. Before starting formal Internal Medicine training he worked in an equine ambulatory practice. Dr. Navas joined Texas A&M as Clinical Assistant Professor from 2015-2019 and returned to PennVet in 2019. His clinical activity and research focuses in equine cardiology and ultrasound. Dr. Navas' ongoing projects are designed to prevent injuries and exercise associated deaths in equine athletes and to promote veterinary health and education using telehealth. The VVCA is delighted to have an academician on the Data Strategy committee, helping us dig deep into what types of data will be valuable to veterinary practitioners and teams.

Solange Mikail

Diplomate American College of Veterinary Sports Medicine and Rehabilitation, Equine Physiotherapist Team Leader in Rio 2016 Olympics and Paralympic Games and owner of the Vet Physio Institute. She is author of many articles and books. Dr. Mikail is a pioneer in the field of equine rehabilitation and thermography.

Caterina Termine

Caterina joined the FEI in 2014 and is involved with a wide range of veterinary technical matters, including the production and delivery of Clean Sport education and information to the equestrian community. She also had a substantial role in managing the EHV-1 outbreak in Valencia during 2021. Prior to her current role, Caterina worked in equine practice and in equine biosecurity and infectious diseases research at the Animal Health Trust in the United Kingdom. She was also veterinary advisor for the Riding for the Disabled Association (UK), an FEI Veterinary Delegate at various Jumping and Eventing competitions and a Testing Veterinarian for her National Federation.

Lecturers Small animal program

Dominique Grandjean

Dominique Grandjean is a professor at the national veterinary school of Alfort (France), where he works as Head of the canine breeding and sport medicine unit. As a faculty in Alfort he has been focusing most of his work on dog's nutrition and working dogs' performance for the last 40 years, with a special attention to oxidative stress prevention and consequences. He was also a colonel veterinarian for the Paris Fire Brigade (military unit, 9500 firefighters) from 1993 to 2021, in charge, among other tasks, of the canine search and rescue teams, of the management of dangerous animals, and of biological hazards. Dominique is also national and regional technical advisor of the civilian security for both cynotechnics and biological hazards, and advisor for civilian security working dogs (Ministry of the Interior). He is Head of the Nosaïs medical detection dogs' program since 1998. This program works on high-risk prostate cancers, colon and pancreas cancers, Parkinson disease, but did also demonstrate that dogs were able to detect COVID-19 on humans. He created in 1999 and then developed a national post-graduated diploma on disaster and environment veterinary medicine and is also Professor at the national superior school for firefighter's officers. He is the former President for the National Association of Firefighters Veterinarians. His unit at the vet school works on a daily base with national police, gendarmerie, and army canine units, and now mainly on medical detection dogs. As a researcher his works are focused on the consequences of stress and hostile environments (warm, cold, altitude) in the working dog, with a deep involvement in sled dog long distance races since 1980, and in search and rescue dogs since 1990. His unit (Unite de Médecine de l'Élevage et du Sport –UMES-) also includes a physiotherapy service (including a specialization diploma on the subject) and a dedicated sub-unit for canine collectivities veterinary problems. Dominique already published more than 190 scientific peer-reviewed papers on working dog physiology, nutrition and medicine, and a total of 30 books all related to this area. He now focuses his research on human diseases detection by canine olfaction. He has been a board member for the International Working Dog Association and is a member of the International Sled Dog Veterinary Medical Association since...the dark ages. He is Race Director for Lekkarod international Sled dog race, has been an Iditarod veterinarian from 1983 to 1995, as well as chief vet for the late Scandream, Nenana Come Back, Alpirod and numerous European and World championships.

Sergio Maffi

A veterinary surgeon from the University of Milan, he has been practising as a private practitioner since 1988 in his own clinic in Palazzolo sull'Oglio (BS). Over the years, Dr Maffi has directed his professional interests towards the medicine of sporting and working dogs, taking a particular interest in dogs involved in dog sledding and cani-cross. After permanent recognition of his degree in Scandinavian countries (Norway 2010; Sweden 2011) and temporarily in Alaska (2013), Dr. Maffi has dedicated himself as Chief Vet or Race Vet to the management of the welfare and health of dogs engaged in long-distance dog sledding competitions, becoming from 2010 to today the only Italian Veterinarian responsible for the organization of the veterinary teams operating in international competitions in Norway ("Bergebyløpet N70", a 650 km race, the only race in the world to be held entirely beyond the Arctic Circle) and in Sweden

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('Polardistans', a 300 km race reserved for dogs of FCI-recognized Nordic breeds, and 'Vildmarksracet', a 120 km race, tackled by many mushers as their first introduction to long-distance competitions). His passion for sled dogs has also led Dr Maffi to work in other international dog sledding competitions, working as a Race Vet in both North American competitions ("Yukon Quest" - 1600 km in the Yukon Territory, Canada and Alaska, USA; "Hudson Bay Quest" - 500 km in Manitoba, Canada; "Race to the Sky" - 500 km in Montana, USA) as well as in European competitions, including 10 editions of "Finnmarksløpet" (Europe's longest 1,200 km race), 7 editions of "Femundløpet" (650 km race that, with more than 150 teams of 8 or 12 dogs registered each year, is the world's most popular long-distance dog sledding competition) and in numerous editions of other races, such as "Amundsen Race", "Beaver Trap Trail", "Spain Long Distance", etc. Dr. Maffi has also served (as Chief Vet, Race Vet, Veterinarian of national teams or as Anti-Doping Commissioner) in national, European or world championships for some of the various federations and organizations that govern these dog activities on snow or on land (IFSS, WSA, ICF, FISTEC, FIDASC, CSEN), as well as in international competitions, both sprint and long-distance, sleddog and canicross, in European countries (France, Great Britain Spain, Switzerland, Poland, Czech Republic, Finland, Russia, Latvia, Iceland) and outside Europe (Canada, USA, South Africa). Author of papers at national and international congresses dedicated to sled dogs, Dr. Maffi is a member of the Board of Directors of ISDVMA (International Sled Dog Veterinary Medical Association), a member of "Mush with Pride", a founding member and Past Vice-President of AIM (Italian Mushers Association), a founding member and member of the Board of Directors of AIVSeC (Italian Association of Veterinary Sleddogs and Canicrosses) and AMeSVI (Italian Veterinary Medical Sports Association). Among other activities in the veterinary field, Dr Maffi also regularly follows greyhound coursing competitions, agility competitions and sports events, and search and rescue activities. Dr Maffi has also taken part as a volunteer surgeon in numerous 'catch/spay/vaccinate/release' campaigns for stray dogs in Ladakh and Sikkim (India), South Africa, Romania and Spain.

Mila Benito

Degree and PhD in Veterinary Medicine from the Faculty of Veterinary Medicine of Cáceres (UEX), she has been working in Spain as a lecturer at the Faculty of Veterinary Medicine of the CEU Cardenal Herrera University (Valencia) since 1999, in the Department of Animal Medicine and Surgery. Diplôme d'Ecole (DE) from the École Nationale Vétérinaire d'Alfort: Cinesiologie, physiothérapie et réadaptation fonctionnelle. Specialist in dog training and Master in Animal Assisted Intervention, University of Valencia (UV). Passionate about dogs in their sporting and human service facets, she has been collaborating for 21 years with different canine units, for whose work she was named honorary military police officer in 2015 and received the Cross of Military Merit with white badge in 2020. In her research work in this field, she has studied cardiorespiratory adaptations to effort in canine sports such as Agility, Mondio and Mushing, activities in which she has actively participated as a veterinarian in international competitions. She is a member of the veterinary team at sports competitions organised in France by the Lekkarod Foundation. She is currently a member of the Animal Welfare Committee of the Official College of Veterinarians of Valencia (ICOVV) and is a member of the Animal Welfare Committee of the International Federation of Sleddogs Sports (IFSS).

João Alves

João Alves graduated from the University of Lisbon, Portugal, in 2012 and has since worked at the Guarda Nacional Republicana (Portuguese Gendarmerie) with their police working dogs, focusing on sports medicine and rehabilitation, helping these animals to achieve their full potential. He completed his PhD in 2021 from the University of Évora, Portugal, in intra-articular management modalities for osteoarthritis. In 2022, he became a European Specialist in Canine Sports Medicine and Rehabilitation



(Diplomate of the European College of Sports Medicine and Rehabilitation - Small Animals; DECVSMR). In addition to osteoarthritis, he does research and is interested in working dog sports medicine, photobiomodulation therapy, and canine exercise. João has published dozens of papers and lectures frequently on these topics.

Chris Zink

DACVSM and consultant on canine sports medicine who presents Coaching the Canine Athlete seminars worldwide and designs individualized rehabilitation and conditioning programs for canine athletes. She is the author of many books about dog training and performance for competitors and co-edited Canine Sports Medicine and Rehabilitation Dr. Zink was obtained over 200 titles in Agility, Obedience, Conformation, Tracking, Hunt Tests, Barn Hunt, Nosework, Coursing, and Rally on dogs from the Sporting, Hound, Working, Terrier, and Herding groups.

Gemma del Pueyo

Graduated in Veterinary Medicine from the Complutense University of Madrid. Certified in Veterinary Massage and Rehabilitation by the HWOC of Wisconsin (USA) and the ESAVS. American Diploma in Sports Medicine and Rehabilitation. AVEPA Accredited in Veterinary Physical Rehabilitation. Director of the Rehabilitation and Sports Medicine service at the VETSIA Veterinary Hospital. She was first diplomate in small animals from Spain and participated as a professor in the postgraduate degree in veterinary physiotherapy at the UCM and Forvet. She is a senior lecturer in rehabilitation of small animal.

Angela Martins

Ângela Martins, graduated in veterinary medicine since 1991 on the Faculty of Veterinary Medicine in Lisbon, and with a PhD in the area of functional neuro-rehabilitation in 2023 from the same University. Diplomate of the European College of Veterinary Sports Medicine and Rehabilitation (Dipl. ECVSMR) since 2023. Founder of Arrábida Veterinary Hospital and the first Animal Functional Rehabilitation Center (CRAA) in Portugal. Clinical Director of Lisbon Animal Rehabilitation and Regeneration Center (CR2AL). Professor on Lusófona University in the disciplines of Animal Rehabilitation and Emergency and Intensive Care, and coordinator of the degree in Veterinary Nursing at IPLUSO. Certified and instructor of the Certified Canine Rehabilitation Practitioner (CCRP) from the University of Tennessee. Attended several international congresses on rehabilitation, in veterinary medicine as in human medicine. Speaker at various events in Portugal and internationally on the topic of animal neurorehabilitation. She has published several articles in quartile 1 journals, as well as a participant in books chapters, author of several posters on the same theme and other scientific works, in functional rehabilitation.

Barbara Bockstahler

She studied veterinary medicine in Vienna, Austria, where she later headed a joint veterinary practice. Since 1999 she is head of the section for Physical Therapy and Rehabilitation at the University of Veterinary Medicine Vienna. In the course of her clinical and scientific career Dr. Bockstahler has held numerous national and international lectures. Dr. Bockstahler was certified as a Specialist for Physical and Rehabilitation Medicine in 2004 (Austria) and as Certified Canine Rehabilitation Practitioner in 2007. She conducted intensive research on gait analysis in dogs since 2003 and finished her habilitation 2009. She became Diplomate of the American College for Veterinary Sports Medicine and Rehabilitation 2016. She is a founding member and current past president of the European College of Veterinary Sports Medicine and Rehabilitation.



Miriam Portero

DVM, Ph.D. Her main interest are neurology, emergencies and intensive care in small animals. Master in Research in Veterinary Sciences. Professor and veterinary at Veterinary Clinical Hospital, Complutense University at Madrid, she has many research about ozone therapy and apply this therapy at hospital patients. Member of AEPROMO (Spanish Association of Ozone Therapy Medical Professionals) and ISCO3 (International Scientific Committee on Ozone Therapy).

Zoran Vrbanac

DECVSMR (Small Animals), DACVSMR (Canine), DVM, PhD. EBVS® European Specialist in Veterinary Sports Medicine and Rehabilitation. Member of European College of Veterinary Sports Medicine and Rehabilitation. Dr. Zoran Vrbanac earned his veterinary degree and PhD in Clinical Veterinary Sciences at the Faculty of Veterinary Medicine University of Zagreb, Croatia. In 2008 he completed training in veterinary acupuncture at the College of Veterinary Medicine, China Agricultural University in Beijing, PR China. Dr. Vrbanac is an Assistant Professor at the Department of Radiology, Diagnostic Ultrasound and Physical Therapy, Faculty of Veterinary Medicine University of Zagreb, Croatia. He was one of the founding members of VEPRA (Veterinary European Physical Therapy and Rehabilitation Association) and has served two terms as president of VEPRA. He became Diplomate of the American College for Veterinary Sports Medicine and Rehabilitation in 2016.

Lynelle Graham

She earned her DVM from the University of Minnesota CVM in 1995, and she completed a rotating internship at Mississippi State University CVM. Dr. Graham then returned to her alma mater where she completed an anesthesiology residency/graduate degree from 1996-1999, and attained board certification by the American College of Veterinary Anesthesia and Analgesia (DACVAA). Dr. Graham has served as a clinical faculty member at the University of Minnesota and University of Illinois CVMs, in addition to doing locum work throughout the US and Canada. During this time, she developed interests in integrative methods of pain management, and Dr. Graham became a Certified Veterinary Acupuncturist (IVAS-International Veterinary Acupuncture Society), certified by the American Veterinary Chiropractic Association (AVCA), received training in herbal medicine, and recently completed requirements as a Certified Canine Rehabilitation Therapist (CCRT).

Marion Mucha

She is veterinary medicine in Vienna, Austria and was already involved in physiotherapy as part of her doctoral thesis, which was completed in 2005. Since 2002 she worked in the Outpatient Clinic for Physical Therapy and Rehabilitation at the Vetmeduni Vienna. In the course of her clinical and scientific career, she has given many lectures in Austria and abroad and also conducted research in the field of movement science, physical therapy and acupuncture in dogs. Since 2004 she is a certified veterinary acupuncturist (CVA, IVAS International Veterinary Acupuncture Society), since 2007 certified physiotherapist for dogs (CCRP, Certified Canine Rehabilitation Practitioner, University of Tennessee in cooperation with Schlosseminare). 2010 her book "Checklist Acupuncture for Small Animals" was published. Since 2016 she is CVPP (Certified veterinary pain practitioner, IVAPM) and since 2018 European Veterinary Specialist in Veterinary Sports Medicine and Rehabilitation (Dipl ECVSMR).

Nieves Pastor

Graduated from University of Extremadura (Spain) in 2006. She is working at the Teaching University



Hospital since then and as an Associate Professor in the Surgery area since 2018, completing her PhD in 2016. She has a University Master in Veterinary Physiotherapy and Rehabilitation in dogs and cats at Complutense University of Madrid (Spain) and diplomate in Veterinary Acupuncture (by IVAS) in 2016. Creator and chief of Rehabilitation and Sports Medicine Department at the Teaching Veterinary Hospital UEX since 2013. Her main interest is based in regenerative therapies and neuromuscular rehabilitation in small animals. She is nowadays resident of the European College of Sports Medicine and Rehabilitation – Small Animals

Tatiana Hernández

Graduated in Veterinary from Complutense University of Madrid in 2004 also graduated in Physiotherapy from Rey Juan Carlos University in 2007, she obtained the IVAS Diploma in 2010 and her PhD in 2016 on electrotherapy in equine rehabilitation. She has worked as a specialist in physiotherapy on both equine and small animal for more than 18 years, and for this reason has translate techniques from one species to other. Highly interest in musculoskeletal ultrasound and superficial electromyography. She has been responsible for the rehabilitation service in several veterinary centers. In 2020 he obtained AVEPA Accreditation in Sports Medicine and Rehabilitation. She finished her residency in ACVSMR(Eq) in 2020. She done regularly small animal physiotherapy courses and participated as a professor in the postgraduate degree in veterinary physiotherapy at the UCM.

M^a Jesús Rodríguez Vizcaíno

Dr. María Jesús Rodríguez Vizcaíno obtained her degree in Veterinary Medicine and her PhD from the University of Murcia. She worked at the Equine Medicine and Surgery Service of the same University for 20 years, focusing mainly on general surgery, lameness investigation and diagnostic imaging, as well as emergencies. Dr. Rodriguez was also Associate Professor, participating in student teaching, supervising and collaborating in research projects. She is certified in Equine Orthopaedic Surgery by the Royal College of Veterinary Surgeons (UK) and is a specialist in Equine Sports Medicine and Rehabilitation by the ACVSMR. Since 2022, Dr Rodriguez has been collaborating regularly with the Equine Surgery Service of the University of Toulouse (ENVT, France) as an independent practitioner involved in general surgery, emergencies and lameness workup. She also collaborates temporarily with the Equine Service of the University of Castilla y León (Spain). She has numerous publications in national and international journals and has participated with lectures, communications and posters in numerous national and international veterinary congresses and meetings