



PERSONAL INFORMATION

Date of birth: 25th april 1972

Nationality: Belgian

ORCID ID 0000-0001-8969-1407

Married, 2 children: Christiaan (born 23/02/2006) and Lucas (born 4/04/2011).

Website Research group: <https://www.ugent.be/di/vpi/en>

Laboratory of Comparative Physiology: <https://www.excophysio.com/>

Bibliography: <https://biblio.ugent.be/person/801001244384>

EDUCATION, CURRENT & PREVIOUS POSITIONS

Cathérine Delesalle **graduated** from the **Ghent University Faculty of Veterinary Medicine**, Belgium, in **1997**, (magna cum laude) and then directly started working as a veterinarian at the Large Animal Internal Medicine Animal Hospital of the Ghent University. In **2008** (18/03/2008) she successfully defended her **PhD thesis**, entitled: 'Ileus in the colic horse: prognostic factors and the role of serotonin and serotonergic receptors (Promotors: Prof. Piet Deprez, Faculty of Veterinary Medicine and Prof. Romain Lefebvre, Faculty of Medicine and Health Sciences). **From 2008 to 2013, Cathérine left Belgium for a full-time position as Assistant Professor at the Utrecht University, The Netherlands**, Faculty of Veterinary Medicine, Department of Equine Sciences. During those 5 years, she combined clinical work with management tasks and the promotorship of three Phds (Sara Torfs, Margreet Ploeg and Veronique Saey). She remained during this time, Visiting Professor at the Ghent University. In **2009**, she became **Board certified by examination at the ECEIM: European College of Equine Internal Medicine** (Member of EBVS). In **2013**, Cathérine returned to the Veterinary Faculty of the Ghent University and completed a **BOF Tenure Track position, again as Assistant professor**. In **2018** she became **Associate Professor** and linked her Research Group to what is now the Department of Translational Physiology, Infectiology & Public Health. During the past decade, she has created and grown her research team: Research Group of Comparative Physiology. The team has already carried out research for major industrial partners and combined clinical trials and basic research. The comparative aspect of performed research, across animal species and human, broadens insights into physiological feedback and coping processes, which is of great importance to understand pathophysiological processes and identify possible therapeutic avenues. The Research group of Comparative physiology focuses on exercise physiology in all its aspects: metabolic/endocrinological interactions, the effect of different types of exercise and dietary interventions on muscular and gut physio-plasticity, ergogenic and regenerative management and neurophysiological assessment in a comparative approach. Novel and innovative research techniques and study set-ups are applied and combined with more conventional analysis techniques which allows for exploring the possible existence of previously unknown pathways and coping mechanisms.

DEFENDED AND ONGOING PhD research projects

At this point **6 Phds have been successfully defended and 2 PhDs will be defended soon (Carmen Vidal Moreno De La Vega (PhD focusing on muscular metabolic plasticity, co-promotor: Dr. Lidwien Verdegaal, Adelaide University), public defence 18/04/2024; and Sanne Journee; Public Defence 30/04/2024 (PhD focusing on the validation of a new transcranial stimulation technique to assess neurofunctional integrity in horses, co-promotor: Prof. Stephen Reed, Kentucky University, Author of the world renowned book: Equine Internal medicine) (approved by the Faculty Board), 4 Phds are ongoing of which also two are in their final stage**

1. **Mathilde Pluim.** *The Effect of High-Power Laser Therapy in Tendinitis and Desmitis in the Horse.* Ghent University. Faculty of Veterinary Medicine (07/06/2022). Promotors: Prof. Catherine Delesalle, Prof. Ann Martens , Prof. Katrien Vanderperren and Prof. René Van Weeren
2. **Elisabeth-Lidwien Verdegaal.** *Thermoregulation in Exercising Horses : Aspects of Temperature Monitoring during Field Exercise.* Ghent University. Faculty of Veterinary Medicine ; Joint PhD with the University of Adelaide. School of Animal and Veterinary Science (13/07/2022). Promotors: Prof. Catherine Delesalle, Prof. Gordon S. Howarth and Prof. Todd J. McWhorter
3. **De meeûs, Constance.** *Differential Effect of Exercise on Bioenergetics and Plasticity of the Equine Muscle.* Ghent University. Faculty of Veterinary Medicine (15/06/2022). Promotors: Prof. Catherine Delesalle, Prof. Luc Leybaert and Prof. Ward De Spiegelaere
4. **Veronique Saey:** *Phenotypical characterization of aortic rupture in Friesian horses.* Ghent University. Faculty of Veterinary Medicine (12/09/2016): Promotors: Prof. Koen Chiers, Prof. Gunther van Loon, Prof. Catherine Delesalle
5. **Margreet Ploeg:** *Challenging Friesian horse diseases -Aortic rupture and megaesophagus.* Joint PhD with Utrecht University, Faculty of Veterinary Medicine (27/10/2015). Promotors: Prof. Catherine Delesalle, Prof. Koen Chiers, Prof. Andrea Gröne, Prof. René van Weeren
6. **Sara Torfs.** *Complications and Prognostic Factors in Equine Surgical Colic.* Ghent University. Faculty of Veterinary Medicine (16/10/2012). Promotors: Prof. Piet Deprez, Prof. Catherine Delesalle and Prof. Gunther van Loon
7. **Carmen Vidal Moreno de Vega.** Equine Metabolic plasticity. Ghent University. Faculty of Veterinary Medicine (Successful closed defence 30th January 2024; public defence: 18/04/2024): Approved by the Faculty Board.
8. **Sanne Journee, DVM.** Exploration and design of a novel method for assessment of the motor function of the spinal cord by transcranial electrical stimulation (TES) in horses. Internal Defence: 29th march 2024; Public Defence: 30th April 2024.
9. **Berit Boshuizen, DVM, ECEIM Diplomate.** The Equine Gut-Muscle Axis in Sickness and in Health. Final stage
10. **Lorie De Mare, DVM, Resident ECEIM.** Objective Performance Capacity Monitoring.

TEACHING ACTIVITIES

Cathérine started her BOF Tenure Track position in 2013 and was immediately involved in the teaching of the course that was at that time known as **Physiology III: G000053**. In 2015 she became responsible lecturer (titularis) for Physiology III: G000053 (65 A hours and 25 B hours). From 2016 onwards, she also became titularis of the course that was at that time known as **Physiology II G000206** (again 65 A

hours and 20 B hours). **From 2016 to 20** she was as **BOF Tenure Track, responsible titularis for both courses Physiology I (G000206) and Physiology II (G000053)(both 65 A hours and respectively 25 and 20 B hours)(each 8 study points), and responsible titularis for both Physiology & Pathophysiology I (G000720) and Physiology & Pathophysiology II (G000724).** The explanation for the new names of both courses for which she remained responsible titularis: In 2017, at the request of the Faculty Educational Committee, in the context of the then ongoing curriculum reform, she also added the pathophysiology components to both course components, and reworked all teaching materials and practicals for both courses. After which both courses were renamed: First semester: 65 teaching hours and 25 practical hours: Physiology & Pathophysiology I (G000720). Second semester: 65 teaching hours and 20 practical hours: Physiology & Pathophysiology II (G000724). Since start of her BOF Tenure Track position, Cathérine is also involved in teaching in the course **Lab Animal Science I** of Prof. Katleen Hermans.

SUPERVISION OF BACHELOR and MASTER STUDENTS (veterinary and non-veterinary, Nationally & Internationally)

The research team has been and is hosting both bachelor and master students of different educational programs, both nationally and internationally (veterinary medicine, biomedical sciences, biomedical engineering, etc, including para veterinary and animal management studies). A detailed overview of hosted students and the research topics they have been working on can be found in the addendum.

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- Member of ECEIM: European College of Equine Internal Medicine
- Member of BEVA: British Equine Veterinary Association
- Member of the American Physiological Society (APS)
- Member of EFSA Scientific and Technical Support unit: role of assessor
- Member of the FWO research group GIREM (Gastrointestinal Regulatory mechanisms) steering committee
- Member of European Society of Veterinary and Comparative Nutrition

ORGANISATION OF SCIENTIFIC MEETINGS

- 2010-2014: responsible for the Equine scientific programme of The Voorjaarsdagen International Veterinary Conference, RAI Amsterdam, The Netherlands:
www.Voorjaarsdagen.org
- 16 & 17 september 2011: organizing committee of the NEVA lustrum congress 2011, Eindhoven/Middelbeers Polo league

COMMISSIONS OF TRUST

- On a regular basis scientific reviewer for a wide array of scientific journals
- External expert for the European Food Safety Authority (EFSA)
- Reviewer for VLAIO, IOF, AFFSA

INTSTITUTIONAL RESPONSIBILITIES

2013-present: Lab director LA1400077

2014-2016: member of the Faculty Educational Committee.

2016-2019: member of the UGent Commission for Sustainability

2016-2018: member of the UGent Personnel and Internationalization resonance group

2016-2021: member of the Faculty Commission of Biosafety

2016-present: member of the Faculty Commission of Internationalization

2023-present: Secretary of the Faculty Animal Ethical Committee

2022-present: member of the Ghent University Research Council

2022-present: member of the Ghent University Societal Valorization Fund

-BOF BAS applications 2022

-BOF GOA applications 2023

-BOF Applications doctoral grants for candidates from developing countries (DOS)
2023

-BOF assessment committee Social Valorization Fund 2023 (spring and autumn)

-FWO Medium Equipment Application 2024

-Societal Valorization Fund application 2023

-Societal Valorization Fund application 2024

-Evaluation of the Interdisciplinary Consortia round 2024

2023-present: Member of the Australian SIP (Strategic Institutional Partnership)
Network work group

PUBLICATION LIST

1. Elisabeth-Lidwien J. M. M. Verdegaal, Gordon S. Howarth, Todd J. McWhorter, Catherine J. G. Delesalle. Thermoregulation during Field Exercise in Horses Using Skin Temperature Monitoring. **ANIMALS** 2024, 14, 136.
<https://doi.org/10.3390/ani14010136>. Impact Factor 3.0
2. Carmen Vidal Moreno de Vega, Constance de Meeûs d'Argenteuil, Berit Boshuizen, Lorie De Mare, Yannick Gansemans, Filip Van Nieuwerburgh, Dieter Deforce, Klara Goethals, Ward De Spiegelaere, Luc Leybaert, Elisabeth-Lidwien J.M.M. Verdegaal, Cathérine Delesalle. Baseline physiological parameters in three muscles across three equine breeds. What can we learn from the horse?

FRONTIERS IN PHYSIOLOGY 15, 2024. Impact Factor: 4.566.

<https://doi.org/10.3389/fphys.2024.1291151>

3. Carmen Vidal Moreno de Vega, Diète Lemmens, Constance de Meeûs d'Argenteuil, Berit Boshuizen, Lorie De Maré, Luc Leybaert, Klara Goethals, Jean Eduardo de Oliveire, Guilherme Hosotani, Dieter Deforce, Filip Van Nieuwerburgh, Lindsey Devisscher and Catherine Delesalle. 2023. Dynamics of training and acute exercised-induced shifts in muscular glucose transporter (GLUT) 4, 8 and 12 expression in locomotion versus posture muscles in healthy horses. **FRONTIERS IN PHYSIOLOGY** 14. doi:10.3389/fphys.2023.1256217. Impact factor: 4.566
4. Verdegaal, Elisabeth-Lidwien J.M.M., Gordon S. Howarth, Todd J. McWhorter, and Catherine Delesalle. 2022. Is Continuous Monitoring of Skin Surface Temperature a Reliable Proxy to Assess the Thermoregulatory Response in Endurance Horses during Field Exercise? **FRONTIERS IN VETERINARY SCIENCE** 9. doi:10.3389/fvets.2022.894146. Impact Factor: 3.12
5. Journée Sanne, Journée Henricus Louis, Berends Hanneke Irene, Reed Steven Michael, Bergman Wilhelmina, de Bruijn Cornelis Marinus and Delesalle Catherine. 2022. Trapezius motor evoked potentials from transcranial electrical stimulation and transcranial magnetic stimulation : reference data, characteristic differences and intradural motor velocities in horses. **FRONTIERS IN NEUROSCIENCE** 16. doi: 10.3389/fnins.2022.851463. Impact factor: 5.152
6. Pluim, Mathilde, Annabelle Heier, Saskia Plomp, Berit Boshuizen, Andrea Grone, Rene van Weeren, Katrien Vanderperren, Ann Martens, Jeroen Dewulf, Ilias Chantziaras, Marc Koene, Antonio Luciani, Maarten Oosterlinck, Leen Van Brantegem, and Catherine Delesalle. 2022. Histological Tissue Healing Following High-Power Laser Treatment in a Model of Suspensory Ligament Branch Injury." **EQUINE VETERINARY JOURNAL** 54 (6): 1114-1122. doi:10.1111/evj.13556. Impact factor: 2.888
7. De Maré, Lorie, Berit Boshuizen, Carmen Vidal Moreno de Vega, Constance De meeûs, Lukas Plancke, Yannick Gansemans, Filip Van Nieuwerburgh, Dieter Deforce, Jean Eduardo de Oliveira, Guilherme Hosotani, Maarten Oosterlinck, and Catherine Delesalle. 2022. Profiling the Aerobic Window of Horses in Response to Training by Means of a Modified Lactate Minimum Speed Test : Flatten the Curve." **FRONTIERS IN PHYSIOLOGY** 13. doi:10.3389/fphys.2022.792052. Impact factor: 4.566
8. De meeûs, Constance, Berit Boshuizen, Maarten Oosterlinck, Don van de Winkel, Ward De Spiegelaere, Cornelis Marinus de Bruijn, Klara Goethals, Katrien Vanderperren, and Catherine Delesalle. 2021. "Flexibility of Equine Bioenergetics and Muscle Plasticity in Response to Different Types of Training : An Integrative Approach, Questioning Existing Paradigms. **PLOS ONE** 16 (4). doi:10.1371/journal.pone.0249922. Impact factor: 3.752
9. Verdegaal, Elisabeth-Lidwien J.M.M., Gordon S. Howarth, Todd J. McWhorter, Berit Boshuizen, Samantha H. Franklin, Carmen Vidal Moreno de Vega, Stacey E. Jonas, Louise E. Folwell, and Catherine Delesalle. 2021. "Continuous Monitoring of the Thermoregulatory Response in Endurance Horses and Trotter Horses during Field Exercise : Baseline for Future Hot Weather Studies. **FRONTIERS IN PHYSIOLOGY** 12. doi:10.3389/fphys.2021.708737. Impact factor: 4.566

10. De meeûs, Constance, Berit Boshuizen, Carmen Vidal Moreno de Vega, Luc Leybaert, Lorie De Maré, Klara Goethals, Ward De Spiegelaere, Maarten Oosterlinck, and Catherine Delesalle. 2021. "Comparison of Shifts in Skeletal Muscle Plasticity Parameters in Horses in Three Different Muscles, in Answer to 8 Weeks of Harness Training. **FRONTIERS IN VETERINARY SCIENCE** 8. doi:10.3389/fvets.2021.718866. Impact factor: 3.12
11. Boshuizen, Berit, Carmen Vidal Moreno de Vega, Lorie De Maré, Constance De meeûs, Jean Eduardo de Oliveira, Guilherme Hosotani, Yannick Gansemans, Dieter Deforce, Filip Van Nieuwerburgh, and Catherine Delesalle. 2021. "Effects of Aleurone Supplementation on Glucose-Insulin Metabolism and Gut Microbiome in Untrained Healthy Horses. **FRONTIERS IN VETERINARY SCIENCE** 8. doi:10.3389/fvets.2021.642809. Impact factor: 3.12
12. Vandenberghe, Eveline, Berit Boshuizen, Catherine Delesalle, Lutz S. Goehring, Katy A. Groome, Kees van Maanen, and Cornelis M. de Bruijn. 2021. "New Insights into the Management of an EHV-1 (Equine Herpesvirus-1) Outbreak. **VIRUSES-BASEL** 13. doi:10.3390/v13081429. Impact factor: 5.818
13. Rovel, Tibor, Marieke Zimmerman, Luc Duchateau, Catherine Delesalle, Edouard Adriaensen, Tom Marien, Jimmy Saunders, and Katrien Vanderperren. 2021. Computed Tomographic Examination of the Articular Process Joints of the Cervical spine in Warmblood Horses : 86 Cases (2015-2017). **JAVMA-JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION** 259 (10): 1178-1187. doi:10.2460/javma.20.03.0105. Impact factor: 1.936
14. Journée, Sanne, Henricus Journée, Stephen Reed, Hanneke Berends, Marco de Bruijn, and Catherine Delesalle. 2020. "Extramuscular Recording of Spontaneous EMG Activity and Transcranial Electrical Elicited Motor Potentials in Horses : Characteristics of Different Subcutaneous and Surface Electrode Types and Practical Guidelines. **FRONTIERS IN NEUROSCIENCE** 14. doi:10.3389/fnins.2020.00652. Impact factor: 5.152.
15. Journée, Sanne, Henricus Journee, Hanneke Berends, Steven Reed, Marco de Bruijn, and Catherine Delesalle. 2020. "Comparison of Muscle MEPs from Transcranial Magnetic and Electrical Stimulation and Appearance of Reflexes in Horses. **FRONTIERS IN NEUROSCIENCE** 14. doi:doi.org/10.3389/fnins.2020.570372. Impact factor: 5.152
16. Pluim, Mathilde, Ann Martens, Katrien Vanderperren, Rene van Weeren, Maarten Oosterlinck, Jeroen Dewulf, Mimoun Kichouh, Bert Van Thielen, Marc H. W. Koene, Antonio Luciani, Lukas Plancke, and Catherine Delesalle. 2020. "High-Power Laser Therapy Improves Healing of the Equine Suspensory Branch in a Standardized Lesion Model. **FRONTIERS IN VETERINARY SCIENCE** 7. doi:10.3389/fvets.2020.00600. Impact factor: 3.412
17. Journée, Sanne, Constance De meeûs, Lorie De Maré, Berit Boshuizen, Katrien Vanderperren, Louis Journée, Marco de Bruijn, Wilhelmina Bergmann, and Catherine Delesalle. 2019. "State-of-the-Art Diagnostic Methods to Diagnose Equine Spinal Disorders, with Special Reference to Transcranial Magnetic Stimulation and Transcranial Electrical Stimulation. **JOURNAL OF EQUINE VETERINARY SCIENCE** 81. doi:10.1016/j.jevs.2019.102790. Impact factor: 1.31
18. Pluim, Mathilde, Ann Martens, Katrien Vanderperren, Steven Sarrazin, M Koene, A

- Luciani, PR van Weeren, and Catherine Delesalle. 2018. "Short- and Long Term Follow-up of 150 Sports Horses Diagnosed with Tendinopathy or Desmopathy by Ultrasonographic Examination and Treated with High-Power Laser Therapy. **RESEARCH IN VETERINARY SCIENCE** 119: 232-238. doi:10.1016/j.rvsc.2018.06.003. Impact factor: 2.534
19. Journée, Sanne Lotte, Henricus Louis Journée, Cornelis Marinus de Bruijn, and Catherine Delesalle. 2018. "Multipulse Transcranial Electrical Stimulation (TES) : Normative Data for Motor Evoked Potentials in Healthy Horses. **BMC VETERINARY RESEARCH** 14. doi:10.1186/s12917-018-1447-7. Impact factor: 2.741
20. Boshuizen, Berit, Margreet Ploeg, Jeroen Dewulf, Sanne Klooster, Marco de Bruijn, Marie-Thérèse Picavet, Katrien Palmers, Lukas Plancke, Hilde De Cock, Mathijs Theelen, and Catherine Delesalle. 2018. "Inflammatory Bowel Disease (IBD) in Horses : A Retrospective Study Exploring the Value of Different Diagnostic Approaches. **BMC VETERINARY RESEARCH** 14. doi:10.1186/s12917-018-1343-1. Impact factor: 2.741
21. Ploeg, Margreet, Veronique Saey, Gunther van Loon, and Catherine Delesalle. 2017. Thoracic Aortic Rupture in Horses. **EQUINE VETERINARY JOURNAL** 49 (3): 269-274. doi:10.1111/evj.12641. Impact factor: 2.022
22. Vermeulen, Rozanne, Constance De meeûs, Lukas Plancke, Berit Boshuizen, Marco de Bruijn, and Catherine Delesalle. 2017. "Effects of Training on Equine Muscle Physiology and Muscle Adaptations in Response to Different Training Approaches. **VLAAMS DIERGENEESKUNDIG TIJDSCHRIFT** 86 (4): 224-231. Impact factor: 0.272
23. De Maré, Lorie, Berit Boshuizen, Lukas Plancke, Marco de Bruijn, and Catherine Delesalle. 2017. "Standardized Exercise Tests in Horses : Current Situation and Future Perspectives. **VLAAMS DIERGENEESKUNDIG TIJDSCHRIFT** 86 (2): 63-72. Impact factor: 0.272
24. Robyn, Julie, Lukas Plancke, Berit Boshuizen, Constance De meeûs, Marco de Bruijn, and Catherine Delesalle. 2017. Substrate Use in Horses during Exercise : The fasted' Compared to the Postprandial State. **VLAAMS DIERGENEESKUNDIG TIJDSCHRIFT** 86 (5): 275-285. Impact factor: 0.272
25. Lefebvre, Romain, Chana Callens, Inge Van Colen, and Catherine Delesalle. 2017. The 5-HT₄ Receptor Agonist Prucalopride Does Not Facilitate Cholinergic Neurotransmission in Circular and Longitudinal Smooth Muscle Preparations of Equine Mid-Jejunum. **RESEARCH IN VETERINARY SCIENCE** 114: 153-162. doi:10.1016/j.rvsc.2017.04.006. Impact factor: 1.616
26. Catherine Delesalle, Marco de Bruijn, Sanne Wilmink, Hilde Vandendriessche, Gerben Mol, Berit Boshuizen, Lukas Plancke, and Guy Grinwis. 2017. "White Muscle Disease in Foals : Focus on Selenium Soil Content : A Case Series. **BMC VETERINARY RESEARCH** 13. doi:10.1186/s12917-017-1040-5. Impact factor: 2.741
27. de Bruijn, Cornelis Marinus, Willem Houterman, Margreet Ploeg, Bart Ducro, Berit Boshuizen, Klara Goethals, Elisabeth-Lidwien J.M.M. Verdegaal, and Catherine Delesalle. 2017. "Monitoring Training Response in Young Friesian Dressage Horses Using Two Different Standardised Exercise Tests (SETs). **BMC VETERINARY RESEARCH** 13. doi:10.1186/s12917-017-0969-8. Impact factor: 2.741
28. Ploeg, M, A Grone, CHA van de Lest, Veronique Saey, Luc Duchateau, P Wolsein,

- Koen Chiers, Richard Ducatelle, PR van Weeren, Maria Josephina de Bruijn, and Catherine Delesalle. 2017. "Differences in Extracellular Matrix Proteins between Friesian Horses with Aortic Rupture, Unaffected Friesians and Warmblood Horses. **EQUINE VETERINARY JOURNAL** 49 (5): 609-613. doi:10.1111/evj.12654. Impact factor: 2.022
29. Verdegaal, ELJMM, Catherine Delesalle, CGB Caraguel, LE Folwell, TJ McWhorter, GS Howarth, and SH Franklin. 2017. "Evaluation of a Telemetric Gastrointestinal Pill for Continuous Monitoring of Gastrointestinal Temperature in Horses at Rest and during Exercise. **AMERICAN JOURNAL OF VETERINARY RESEARCH** 78 (7): 778-784. doi:10.2460/ajvr.78.7.778. Impact factor: 1.156
30. Saey, Veronique, Margreet Ploeg, Catherine Delesalle, Gunther van Loon, A Gröne, Richard Ducatelle, Luc Duchateau, and Koen Chiers. 2016. "Morphometric Properties of the Thoracic Aorta of Warmblood and Friesian Horses with and without Aortic Rupture. **JOURNAL OF COMPARATIVE PATHOLOGY** 154 (2-3): 225-230. doi:10.1016/j.jcpa.2016.02.001. Impact factor: 1.311
31. Saey, Veronique, Tim Vandecasteele, Gunther van Loon, Pieter Cornillie, M Ploeg, Catherine Delesalle, A Gröne, Ingrid Gielen, Richard Ducatelle, and Koen Chiers. 2016. "Friesian Horses as a Possible Model for Human Acquired Aortopulmonary Fistulation. **BMC RESEARCH NOTES** 9. doi:10.1186/s13104-016-2201-5
32. Taevernier, Lien, Lieselotte Veryser, Nathalie Roche, Kathelijne Peremans, Christian Burvenich, Catherine Delesalle, and Bart De Spiegeleer. 2016. "Human Skin Permeation of Emerging Mycotoxins (Beauvericin and Enniatins). **JOURNAL OF EXPOSURE SCIENCE AND ENVIRONMENTAL EPIDEMIOLOGY** 26 (3): 277-287. doi:10.1038/jes.2015.10. Impact factor: 5.563
33. Journée, Sanne, Henricus Louis Journée, Cornelis Marinus de Bruijn, and Catherine Delesalle. 2015. "Design and Optimization of a Novel Method for Assessment of the Motor Function of the Spinal Cord by Multipulse Transcranial Electrical Stimulation in Horses. **JOURNAL OF EQUINE VETERINARY SCIENCE** 35 (10): 793-800. doi:10.1016/j.jevs.2015.07.014. Impact factor: 0.73
34. Ploeg, Margreet, A Gröne, Veronique Saey, CM de Bruijn, Willem Back, PR van Weeren, W Scheideman, T Picavet, BJ Ducro, I Wijnberg, and Catherine Delesalle. 2015. "Esophageal Dysfunction in Friesian Horses: Morphological Features. **VETERINARY PATHOLOGY** 52 (6): 1142-1147. doi:10.1177/0300985814556780. Impact factor: 2.11
35. Torfs, Sara, An Maes, Catherine Delesalle, Bart Pardon, Siska Croubels, and Piet Deprez. 2015. Plasma Serotonin in Horses Undergoing Surgery for Small Intestinal Colic. **CANADIAN VETERINARY JOURNAL-REVUE VETERINAIRE CANADIENNE** 56 (2): 178-184. Impact factor: 1.008
36. Ploeg, Margreet, Veronique Saey, Catherine Delesalle, A Gröne, Richard Ducatelle, Marco de Bruijn, Willem Back, PR van Weeren, Gunther van Loon, and Koen Chiers. 2015. "Thoracic Aortic Rupture and Aortopulmonary Fistulation in the Friesian Horse : Histomorphologic Characterization. **VETERINARY PATHOLOGY** 52; 152-159. doi:10.1177/0300985814528219. Impact factor: 2.11
37. Saey, Veronique, Nele Famaey, Marija Smoljkic, Erik Claeys, Gunther van Loon, Richard Ducatelle, Margreet Ploeg, Catherine Delesalle, Andrea Gröne, Luc Duchateau, and Koen Chiers. 2015. "Biomechanical and Biochemical Properties of the Thoracic Aorta in Warmblood Horses, Friesian Horses, and Friesians with Aortic

- Rupture. **BMC VETERINARY RESEARCH** 11. doi:10.1186/s12917-015-0597-0. Impact factor: 2.741
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39. Jonckheer-Sheehy, Valerie SM, Catherine Delesalle, Antoon Jan M van den Belt, and Robin Van den Boom. 2012. "Bad Behavior or a Physical Problem?: Rearing in a Dutch Warmblood Mare. **JOURNAL OF VETERINARY BEHAVIOR-CLINICAL APPLICATIONS AND RESEARCH** 7 (6): 380-385. doi:10.1016/j.jveb.2011.10.005. Impact factor: 1.653
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ORAL PRESENTATIONS AT INTERNATIONAL CONFERENCES

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58. Catherine Delesalle, Piet Deprez, J Schuurkes, and Romain Lefebvre. 2005. In Vitro Effects of 5-Hydroxytryptamine on the Jejunum of Healthy and Colic Horses: Characterization of a Putative 5-HT_{1A} Receptor in the Equine Gut." In *Proceedings of the 8th International Equine Colic Research Symposium, Canada, Quebec, 2005*. doi:1854/3158.
59. Catherine Delesalle, Jeroen Dewulf, J Schuurkes, Barry Van Vlierbergen, Heidi Nollet, D Declerq, and Piet Deprez. 2005. Ionized Calcium as a Prognostic Parameter in Colic Horses. In *Proceedings of the 8th International Equine Colic Research Symposium, Canada, Quebec, 2005*. doi:1854/3159.

TRAINEESHIPS, INTERNSHIPS & RESIDENCIES

-Berit Boshuizen, The Netherlands: Shared Residency ECEIM with Wolvega Equine Clinic: 2016-2021. Berit successfully obtained her ECEIM Diplomate title by exam in 2022.

-Margot Reijnders (2015-2016). Faculty of Veterinary Medicine, Utrecht University, Master Dissertation, Aleurone: the solution for Western lifestyle? Promotor: Prof. Delesalle

-Sanne Klooster. Faculty of Veterinary Medicine, Utrecht University (2015-2016). The diagnostic value of transendoscopic harvested duodenal mucosal biopsies in the work-up of horses suspected of inflammatory bowel disease, master thesis. Promotor: Prof. Delesalle

-Collin Genauw, (6 months internship)(2015-2016). Bachelor Biomedical Laboratory Science. Effect of aleurone supplementation on the microbiome of horses at rest

evaluated via qPCR 16S DNA. Bachelor thesis. Promotor: Prof. Delesalle

-Iris Kosterink (student ID 000005376) (6 months internship)(2015-2016), Van Hall Larensteijn, Nederland, Animal management, bachelor of science, Preferentie testen: het objectief testen van links versus rechtshandigheid bij het paard. Major stage, major thesis. Promotor: Prof. Delesalle

-Nathalie Touwen (student ID 930526003) (6 months internship), Van Hall Larensteijn Animal management, Nederland, bachelor of science, Het effect van aquatraining op spieropbouw bij sportpaarden gedurende revalidatie en gedurende conditietraining. Major stage, major thesis. Promotor: Prof. Delesalle

-Lisa Holtrop (Student ID 910825002) (3 months internship)(2015-2016), Van Hall Larensteijn, The Netherlands, Animal management, bachelor of Science. The effect of aquatraining on muscle plasticity during revalidation and performance training. Major thesis.

-Chana Callens, Faculty of Bio-engineering (6 months internship)(2015-2016) UGent and HoWest in cooperation with The Heymans Institute, Ghent University. Is there in vitro evidence for the use of 5HT4 agonists as small intestinal prokinetic in horses? Master internship and dissertation. Promotors: Prof. Delesalle, Prof Lefebvre and Prof Sampers.

-Nathalie Touwen (student ID 930526003) (6 months internship)(2016-2017). Van Hall Larensteijn, Animal management, bachelor of science. Effect of dry treadmill training on gait symmetry of young Friesian horses. Major internship, major thesis.

-Bette van Doorslaer, (student ID 9900309852130) (6 months internship)(2016-2017) UGent, Campus Kortrijk. A search for the genetic basis of aortic rupture in Friesian horses. GWAS analyses werd uitgevoerd op 20 Friese paarden met aortabreuk en 20 met megaesophagus. Resultaten werden beschreven in de thesis. Major thesis. Erasmus programme. Promotors: Prof. Delesalle en Dr. Ducro (Wageningen University).

-Ryenne Habraken, (6 months internship)(2016-2017), Van Hall Larensteijn, The Netherlands, Bachelor of science, Horse and Management. Standardized Exercise Tests in trotter horses. Major internship, major thesis. Erasmus programme.

-Katinka de Rooij, (6 months Internship) (2016-2017). Van Hall Larensteijn, The Netherlands, Bachelor of science, Horse and Management. High Field Laser therapy in horses. Major internship, major thesis. Erasmus programme.

-Koen Wilhelm, (21 weeks traineeship)(2016-2017), Aeres University of Applied Sciences, Almere, The Netherlands, bachelor applied biology. Glucose metabolism in young healthy trotter horses. Major internship. Bachelor thesis. Erasmus programme.

-Melissa Keijsper, (21 weeks traineeship)(2016-2017), Aeres University of Applied Sciences, Almere, The Netherlands, bachelor applied biology. Effect of training of young trotter horses on gait symmetry. Major internship. Bachelor thesis. Erasmus programme.

-Femke Laan (3 months internship) (2016-2017), Utrecht University, Faculty of

Veterinary Medicine, master dissertation: Longitudinal follow-up of evolution of insulin sensitivity in answer to 12 weeks of trotter training before and after a 3 months training period in trotter horses.

-Daisy Hendriks en Jill Vanlerberghe. Professional bachelor Medical Imaging Odisee hogeschool, Brussels, Belgium (2017-2018). MR-evaluatie van met laser behandelde iatrogene peesletsels, met de interosseuspees' van het paard als onderzoeksmodel.

-Bo Hopmans (10 weeks internship)(2018-2019), HAS Hoge School Den Bosch, Dieren Veehouderij, 1. Heeft het voedingssupplement aleurone invloed op de inspanningscapaciteit van het paard? 2. Preference test: bepalen van een voorkeursbeen. Bachelor internship. Major thesis.

-Nhlanhla Makatini (10 weeks internship)(2018-2019), Aeres University of Applied Sciences, Almere, The Netherlands, Bachelor applied biology. Longitudinal follow-up of muscle fibre typing in three strategical muscles in answer to trotter training. Bachelor internship. Major thesis. Erasmus programme.

-Elisabeth De Sutter: Honours Programme, Ghent University (2019-2020). The effect of 8 weeks of dry treadmill training on muscle fibre type composition of the pectoralis profundus and vastus lateralis muscles in Friesian horses.

-Rui Menezes (2019-2020). Faculty of Veterinary Medicine, Evora University, Portugal. Master dissertation: Intralesional treatment with mesenchymal stem cells in horses with suspensory ligament desmitis and superficial digital flexor tendonitis.

-Miranda Swierstra (2019-2020). Faculty of Veterinary Medicine, Utrecht University, The Netherlands. Master scription: Eosinophilic IAD in Sporthorses.

-Nynke Veenstra (2019-2020). Van Hall Larenstein, The Netherlands. Major Biomedical Research: Eosinofiele astma bij paarden

-Diete Lemmens (6 months internship 2023). Hasselt University, Master in Biotechnology. Longitudinal follow-up of Fuel-mobilizing hormone levels, glucose/insulin dynamics, and glucose transporter expression in response to harness training. Master dissertation.

-Joëlle Melis (6 months internship starting September 2023). HAS Den Bosch, The Netherlands, Bachelor Biology. Metabolic characterization of the horse during transport & training.

-Current: Lotte Monteyne, Bachelor Biomedical Laboratory Techniques, HoWest. Final graduation internship 5 months

MEMBERSHIP EXAMINATION COMMISSIONS PhD's (2018-2023)

-Abubakar Garba, 2018: Increased differentiation and PRRSV susceptibility of monocytic cells during co-cultivation with immortalised mesenchymal cells.

-Eva Bauwens, 2019: Impact of gastric Helicobacter infections on the gut-brain axis.

Het betreft een interdisciplinair doctoraat. Examen commissie: Prof. dr. Debby Laukens, Prof. dr. Andy Wullaert, Prof. dr. Benedicte De Winter, Prof. dr. Catherine Delesalle (secretaris, lid begeleidings commissie), Prof. dr. Christophe Van Steenkiste. Promotoren: Prof. dr. Roosmarijn Vandenbroucke, Prof. dr. Annemieke Smet, Prof. dr. Freddy Haesebrouck.

- Marios Charalambous, 2020: ADVANCES IN CANINE EPILEPSY TREATMENT FROM ORAL TO INTRANASAL AND TRANSCRANIAL. Examen commissie: President: Prof. dr. Sarne De Vlieghe, Prof. dr. Paul Boon, Prof. dr. Mette Berendt, Prof. dr. Paul Mandigers, Prof. dr. Catherine Delesalle (secretaris), Prof. dr. Tim Bosmans. Promotoren: Prof. dr. Luc Van Ham, Prof. dr. Sofie Bhatti, Prof. dr. Holger Volk.

- Helena Berlamont, 2021: Helicobacter suis: further characterization of the agent and its possible impact on the course of Parkinson's disease. Examen commissie: Voorzitter: Prof. dr. Dominiek Maes, Prof. dr. Jean-Pierre Timmermans, Prof. dr. Cathérine Delesalle (secretaris), Prof. dr. Christophe Van Steenkiste, Prof. dr. Chloe De Witte. Promotoren:

Prof. dr. Freddy Haesebrouck, Prof. dr. Annemieke Smet, Prof. dr. Roosmarijn Vandenbroucke.

- Tibor Rovel, 2021: Computed tomography of the equine neck with a special focus on the articular process joints and intervertebral foramina. Examen commissie: Prof Dr Dominiek Maes, Prof Dr Stefanie Veraa, Dr Els Raes, Prof Dr Fabrice Audigié, Prof Dr Catherine Delesalle, Prof Dr Pieter Cornillie. Promotoren: Prof Dr Katrien Vanderperren, Prof Dr Jimmy Saunders.

- Sarah de Jager, 2022. Faculty of Medicine and Health Sciences. Exogenous histidine-containing dipeptides in metabolism and performance: Translating in vitro research to humans. Examen commissie: Prof. Patrick Calders, Prof. Jan Boone, Prof. Craig Sale, Prof. Catherine Delesalle, Dr. Sanne Stegen, Dr. Charlotte Grootaert. Promotoren: Prof. Wim Derave, Prof. Jan Bourgois.

-Willie Bergman, Universiteit Utrecht, 2023. Examen commissie. Titel doctoraat: Involvement of OC in the pathogenesis of CVM in horses.

-Emilie Tailleu. Significance of gastric non-Helicobacter pylori Helicobacter infections for human and animal health

SUPERVISION OF MASTER'S THESES

Master's thesis students 2014-2015:

1. Charlotte Wuyts - An overview of gastrointestinal research in human athletes Effects of intensive work on gut health

2. Erik Van Mechelen - Innate Immunity of the foal
3. Helga Asscherickx - the pre- and probiotic capacity of oral compounds in horses
4. Marie Deflandre - CO and CRF receptors: what role do they play in postoperative ileus in the horse?
5. Rebecca Sekreve - Muscle metabolism in the horse.

Master's thesis students 2015-2016:

1. Lorie de Mare - Testing of exercise capacity in horses (rewarded with VDT thesis prize for young authors, article published in VDT: "Vlaams Veergeneeskundig Tijdschrift")
2. Rozanne Vermeulen - Physiological effects of different types of work on muscle development in the horse (awarded with VDT thesis prize for young authors, article published in VDT: "Vlaams Veergeneeskundig Tijdschrift")
3. Julie Robyn - Substrate use in horses during exercise the fasted compared to the postprandial state (rewarded with VDT thesis prize for young authors, article published in VDT: "Vlaams Veergeneeskundig Tijdschrift")
4. Jaro Bettens - Overview of circadian and pulsatile hormones and their importance in the clinic
5. Sophie Brandts - Interaction between mucosal immunity and the mammary gland in humans, sows and cows
6. Sander Damen - Equine Gastrointestinal motility; a review on prokinetics, spasmolytics and their receptors.
7. Filip Goedhuys - Meta-analysis of vaccines against mastitis with a link to udder immunity
8. Vicky Korvink - Esophagus and stomach problems in the Friesian horse
9. Annelies Mellaerts - Effect of training on immunity in horses and humans
10. Karolien Merchiers - Equine postoperative ileus: the use of lidocaine
11. Ann-Sophie Platteeuw - Overtraining in horses, estimated prevalence, symptoms and biomarkers
12. Lisa Rispens - The similarity between Crohn's disease in humans and paratuberculosis in cattle
13. Lotte van der Raad - The role of creatine in the regulation of glucose metabolism and insulin sensitivity in the muscle
14. Anke van Ongeval - Endocrinological aspects of exercise physiology
15. Tessa Verheyen - Wobbler syndrome in horses – state of the art
16. Marine Nelissen Grade - Comparative Physiology - Horse vs. Human

Master's thesis students 2016-2017:

1. Evelien Dhondt – Fecal microbiota transplant
2. Esther Dirks – Mesenchymal stem cells from different sources and their use in equine tendon injuries
3. Ward Moerman – A critical view on hypoxia training – horse versus human
4. Martine Verhavert – Morphology of the epiphysis cerebri in birds
5. Charlotte Waegeman – Microbiota anterior digestive tract of the pig
6. Marine Nelissen Grade - Comparative Physiology - Horse vs. Human
7. Yvette Dalm - Obesity in all its aspects: causes, consequences and curative approach
8. Dorthé Nelis - The effect of exercise and diet changes on metabolomics of multiple body compartments
9. Reinoud Priester - Regenerative approaches to equine tendonitis
- 10
10. Oona van der Gucht - Which nutrient media are suitable for growing muscle meat in culture
11. Shana van Wassenhove – Training sport horses
12. Sigrid Smets - influence of various environmental factors in goats as a function of reproduction
13. Gedy Schierbeek - Dental root infections and osteomyelitis of the mandible or maxilla in llamapediae: A retrospective study
14. Nele van den Dries - The use of a new distraction method for determining hip laxity in dogs.

Master's thesis students 2017-2018:

1. Jade Janssens – The effect of aqua training on muscle fiber types in the horse
2. Isaline Smisaert – The effect of training in horses on cell differentiation in bronchoalveolar lavages and blood tests
3. Delphine Boone – Stem cell therapy in Pinnipedia with eye injuries
4. Julie de Clerq, Department of Exercise and Sports Sciences, Ghent University – The effect of training on the symmetry of horses. Co-supervisor: Dr. Maarten Oosterlynck
5. Yvette Dalm – Obesity in dogs in all its aspects: Causes, Consequences and Curative Treatment. Co-supervisor: Prof. Myriam Hesta
6. Sigrid Smets – Influence of environmental factors in goats as a function of reproduction. Supervisor: Prof. Peter Daels. Co-supervisor: Prof. Delesalle

Master's thesis students 2018-2019:

- Delphine Boone. Stem cell therapy in Pinnipedia with eye injuries. Delphine is nu werkzaam op het monitoraat Diergeneeskunde en blijft in contact met ons.
- Isaline Smisaert. The effect of training of horses on cell differentiation in bronchoalveolar lavage and blood tests. Dit onderzoek werd deels gepresenteerd op de ECEIM conference Valencia Spain 2020
- Reinoud Priester. Treatment of equine tendinopathy using laser therapy. Tweede zittijd. Zeer veel plagiaat van PhD student Mathilde Pluim.
- Julie De Clercq. Faculteit Geneeskunde en Gezondheidswetenschappen. Prof. Delesalle hoofdpromotor. Het effect van training op de symmetrie bij sportpaarden.
- 2019-2020, Sita Huitema. The effect of training on GLUT expression. Hieruit is vervolgonderzoek binnen het Team gekomen. Zie opvolg werk stagestudente Biomedische Wetenschappen Diète Lemmens.
- 2020-2021, Bijan Jalalian. Differential expression of genes in answer to exercise and training across species.
- 2020-2021, Fidelia Paul. Ijzerintoxicatie bij het paard.
- 2020-2021, Juliette Goosens. The effect of training on the gastro-intestinal microbiome.
- 2021-2022, Edna Clara Marie Goeke. Verbetering van de prestatiefysiologie door middel van de ERM-therapie bij het sportpaard.
- 2022-2023, Diète Lemmens. Dynamics of training and acute exercise-induced shifts in muscular glucose transporter (GLUT) expression and validation of fuel-mobilizing hormone levels in tear fluid in horses. Master Biotechnologische Wetenschappen UHasselt.
- 2022-2023, Alessia Van Aken. Maagpathologiën bij het paard na het ervaren van (sub)acute stress.
- 2022-2023, Ines Elien Wesemael. Monitoring van stresslevels gedurende transport van dieren.
- 2022-2023, Manon Minten. Gebruik van AI voor dierenwelzijn versie.
- 2023-2024, Ezra van der Sar. Pathofysiologie van de aortaruptuur bij het Friese paard en andere diersoorten.
- 2023-2024, Damian van Kranen. Spierverandering bij het paard als reactie op training en overtraining en mogelijke behandelingen.
- 2023-2024, Amber De Neef. The effect of stress on fuel mobilizing hormones and glucose and insulin dynamics across species.