

# Curriculum vitae

**Martin Krarup Nielsen**  
**DVM, PhD, DipACVM, DipEVPC**

**Current Address:**

Department of Veterinary Science,  
M.H. Gluck Equine Research Center,  
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**Major research areas of interest:** Endoparasite infections of horses, clinical and molecular diagnosis, epidemiology, surveillance and control.

**Education:**

- 2001: Doctor of Veterinary Medicine (DVM), The Royal Veterinary and Agricultural University, Denmark.
- 2007: PhD, Faculty of Life Sciences, University of Copenhagen, Denmark.
- 2011: Board certified as Diplomate of the European Veterinary Parasitology College (DipEVPC).
- 2013: Board certified as Diplomate of the American College of Veterinary Microbiologists (DipACVM-parasitology).

**Professional experience:**

- 2001: Seven months as clinical veterinarian, Large Animal Hospital, The Royal Veterinary and Agricultural University, Denmark.
- 2001-2004: Practising veterinarian, Dyr lægegruppen Laugø v/ Klavs Alexander, Helsingør, Denmark.
- 2004-2007: Ph.D. student, Medicine and Surgery, Department of Large Animal Science, Faculty of Life Sciences, University of Copenhagen.
- 2007-2011: Assistant professor, Faculty of Life Sciences, University of Copenhagen, Denmark.
- 2007-2011: Member of the night duty emergency team, The University Large Animal Hospital, Faculty of Life Sciences, University of Copenhagen.
- 2009-2011: Head of the large animal clinical service and research laboratory, Faculty of Life Sciences, University of Copenhagen.
- 2011-2016: Assistant professor, Maxwell H. Gluck Equine Research Center, Department of Veterinary Science, University of Kentucky, Lexington, Kentucky, USA.
- 2016-2021: Associate professor, Maxwell H. Gluck Equine Research Center, Department of Veterinary Science, University of Kentucky, Lexington, Kentucky, USA.
- 2021-: Professor, Maxwell H. Gluck Equine Research Center, Department of Veterinary Science, University of Kentucky, Lexington, Kentucky, USA.

**Faculty development:**

- Sabbatical leave (from University of Copenhagen), Department of Veterinary Science, University of Kentucky, November 2009 – June 2010.
- Sabbatical leave, AgResearch Grasslands, New Zealand, August 2018 – January 2019.

**Awards and honors:**

- 2020: Winnie Award, Best Educational Film, Equus Film & Arts Fest.  
 2020: University of Kentucky's Wethington Award.  
 2019: Winnie Award, Best Educational Film, Equus Film & Arts Fest.  
 2019-2022: Jes and Clementine Schlaikjer professorship.  
 2016-2019: Jes and Clementine Schlaikjer professorship.  
 2019: University of Kentucky's Wethington Award.  
 2018: University of Kentucky's Wethington Award.  
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 2016: University of Kentucky's Wethington Award.  
 2015: University of Kentucky's Wethington Award.  
 2014: University of Kentucky's Wethington Award.  
 2010: Aage and Edith Dyssegaards Foundation for high quality research within medicine, veterinary medicine and animal production.  
 2009: Young Elite Scientist Award. Danish Research Council, Denmark.  
 2008: Albert and Lorraine Clay Research Fellowship, University of Kentucky, USA.  
 2007: AAEP-Intervet Outstanding Graduate Student Award, American Association of Veterinary Parasitologists.  
 2006: Best presentation award - second place. American Association of Veterinary Parasitologists, 51st annual meeting.  
 2006: Young Scientist Award. Joint Spring Symposium - Danish Society for Parasitology and Danish Society for Tropical Medicine & International Health.  
 2001: The foundation for graduates from the Royal Veterinary and Agricultural University. For outstanding results at final exam.

**Registered innovations:**

- Nielsen, M.K.**, Kaplan, R.M. PCR detection of eggs from equine intestinal parasites. The innovation was found patentable by Office for Research and Innovation, The Royal Veterinary and Agricultural University, May 23<sup>rd</sup> 2006.
- Nielsen MK**, Andersen UV, Howe, DK. Case 1871: "Usage of recombinant SvSXP protein in diagnosis of migrating larvae of *Strongylus vulgaris*." Intellectual Property Development Office, University of Kentucky. 05/14/2012. Disclosure found patentable on 08/20/2012, a provisional patent protection was filed on 10/29/2012, a full patent was applied for on 10/29/2013, and the patent was issued on 02/10/2015 and was assigned with US patent number 8,951,741.

**Organizing experience and committees:**

- President, American Association for Veterinary Parasitologists, 2021-2022.
- President-Elect and Program Chair, American Association for Veterinary Parasitologists, 2020-2021.
- Vice President, American Association for Veterinary Parasitologists, 2019-2020.
- Committee member, WAAVP Anthelmintic Efficacy Guideline Committee, 2019-.
- Committee member, WAAVP Fecal Egg Count Reduction Test Guideline Committee, 2018-.

- American College for Veterinary Microbiologists parasitology exam committee chair. 2014-2108.
- International scientific committee, 11<sup>th</sup> International Conference on Equine Infectious Disease, Deauville, France, 2021.
- International scientific committee, 10<sup>th</sup> International Conference on Equine Infectious Disease, Buenos Aires, Argentina, 2016.
- International and local organizing committee, program chair, 9<sup>th</sup> International Conference on Equine Infectious Disease, Lexington, Kentucky, USA, 2012.
- Kentucky Association for Equine Practitioners, board member. 2012-2018.
- Chair, AAEP Parasite Control Guideline Task force, 2012-.
- Organizing committee, Equine Parasite Symposium, University of Kentucky, 2009.
- Head of organizing committee, Equine Parasite Drug Resistance Workshop, Copenhagen, 2008.
- Scientific Chairman, Journées de l'AVEF, Reims, France, 2008.
- Secretary board member, Danish Society for Parasitology, 2007-2011.

#### **Ad-hoc Reviewer:**

Veterinary Parasitology (2006-present)

Canadian Journal of Veterinary Medicine (2007-present)

Journal of Equine Veterinary Science (2009-present)

Journal of the American Veterinary Medical Association (2009-present)

Equine Veterinary Journal (2009-present)

Acta Veterinaria Scandinavica (2009-present)

New Zealand Veterinary Journal (2009-present)

International Journal for Parasitology (2010-present)

Veterinary Journal (2010-present)

Veterinary Record (2012-present)

Parasitology (2012-present)

Parasites & Vectors (2013-present)

Equine Veterinary Education (2013-present)

Irish Veterinary Journal (2013-present)

BMC Research Notes (2014-present)

Veterinary Clinical Pathology (2014-present)

Parasitology Research (2014-present)

Nature Protocols (2016-present)

Veterinary Parasitology: Regional Studies and Reports (2016-present)

#### **Editorial board positions:**

Journal of Equine Veterinary Science (2012-present)

Frontiers in Veterinary Science, associate editor (2015-2018)

Veterinary Parasitology, Co-Editor-in-Chief (2017-present)

#### **Teaching experience:**

##### Lectures, veterinary medicine:

Equine tracking, Modula 2: Integrated parasite control. 2008, 2009, 2010, 2011.

Biomedicine tracking, Modula 1: Developing a real-time PCR assay. 2007, 2008, 2009.

Large Animal Medicine: Parasite control programs, 2009, 2010.

Lecture, agronomy:

Equine health and nutrition: disease recognition and herd management. 2008, 2010.

Lecture, Parasitology Master:

Sustainable parasite control. 2010.

Hospital-based teaching:

Methodology in clinical examination. 2004, 2005, 2006.

Clinical rotations, large animal internal medicine. 2007, 2008, 2009, 2010

Course leadership:

Laboratory procedures in veterinary practice. Course for Veterinary technicians. 2008.

Post graduate teaching:

Detection and semi-quantification of *Strongylus vulgaris* DNA in equine faeces by real-time PCR. NOVA PhD course, Sweden, 2008.

Epidemiology of Equine Parasites. NOVA PhD course, Denmark, 2009.

Equine parasite control. NOVA PhD course, Finland, 2010.

VS597/VS575: One credit hour seminar-based class. Taught every semester since fall 2017. Continued as VS575 since the spring of 2019.

Lincoln Memorial University diagnostic rotation: One day pr. rotation. Taught in the lab at Gluck since fall semester, 2017.

**Student supervision:****University of Copenhagen:**Bachelor projects:

Acted as main advisor for all four students listed below. All students completed their program.

1. Sanna Josefine Norbeck:  
Summer excema in horses – practical aspects, 2008.
2. Ditte Cecilie Vemming:  
Strategies for integrated parasite control in young horses. 2008.
3. Silja Edvardsdóttir:  
Rotation of anthelmintic drug classes – does it affect development of anthelmintic resistance? 2010.
4. Kristina Frahm Gammeljord:  
Selective therapy for control of tapeworms in horses? 2010.

Master's (DVM) students

Acted as main advisor for all 16 University of Copenhagen students listed below. All students completed their program.

- 1-2. Laura Nygaard Kjær, Mette Marie Lungholt:  
*Anoplocephala perfoliata* infection in Denmark – diagnostics and epidemiology. 2006.
3. Mette Lindstrøm Larsen:  
Efficacy of ivermectin against equine nematodes under Danish conditions. 2009
- 4-5. Ulla Vestergaard Andersen, Kathrine Pilegaard:  
Storage factors influencing strongyle faecal egg counts. 2010.
6. Marianne Kronborg Nielsen:  
Performance of conventional PCR as a diagnostic tool for the detection of *Strongylus vulgaris* in pooled and single fecal samples from horses in the greater Copenhagen area. 2010.
7. Marianne Wøhlk:  
Diagnosing *Strongylus vulgaris* on farms using selective therapy. 2010
- 8-9. Helena Carstensen, Lene Larsen:  
Interpretation of fecal egg counts in horses. 2010
10. Frida Susanna Moberg:  
Prevalence and risk factors for nematode infection in zebras in Scandinavian zoos. 2010.
- 11-12. Fanny Mauritzson, Alexandra Malmgren:  
Investigation of the general health status of dogs under Projekt UDENFOR - Bacteriology, Clinical pathology and Parasitology as diagnostic tools. 2011.
13. Louise Hägg:  
A pilot study on spread and prevalence of equine strongyle larvae after mowing of pastures under Scandinavian circumstances. 2011
14. Malene Ravnkilde Gullev:  
The hygiene hypothesis in horses? Recurrent airway obstruction and endoparasites. 2011.
- 15-16. Emilie Attwell, Mette Jensen:  
*Fasciola hepatica* in horses. 2011.

#### PhD project, main advisor

1. Ulla Vestergaard Andersen:  
Prepatent Diagnosis of Equine Strongyle Infection. 2010-2014. Defended successfully on November 24, 2014. Currently self-employed in veterinary clinical practice.

#### **University of Kentucky:**

##### PhD students, main advisor:

1. Jessica Scare:  
Anthelmintic resistance in equine parasites: Mechanisms and treatment approaches. Defended successfully on April 29, 2019. Currently employed as tenure-track assistant professor at Eastern Kentucky University.
2. Ashley Steuer:  
Host-Parasite Interaction in Horses: Mucosal Responses to Naturally Acquired Cyathostomin Infections and Anthelmintic Treatment. Defended successfully on April 14, 2020. Currently employed as tenure-track assistant professor at Texas Tech University.

3. Jennifer Cain:  
Parasite microbiomes. 2017-. In progress.
4. Jennifer Bellaw:  
Objective methods of equine parasite surveillance. 2012-. In progress.
5. Nichol Ripley:  
Genomics of *Strongylus vulgaris*. 2020-. In progress.
6. Constance Finnerty:  
Population genetics of *Parascaris* spp. 2020-. In progress.

#### Master student, main advisor

1. Emily Rubinson:  
Equine helminths and the immune system, 2013-2014. Graduated on December 5, 2014. Currently employed as a laboratory technician.

#### PhD committees:

1. Parvathy Thampi, 2013-2017.
2. Parul Suri, 2018-2021.
3. Erica Jacquay, 2021-.

#### Undergraduate students, main advisor:

1. Maci Stephens:  
Transabdominal ultrasonography as a tool for monitoring *Parascaris* spp. in foals. 2013.
2. Eileen Donoghue:  
Evaluation of anthelmintic treatment efficacy in foals using ultrasonographic techniques. 2014.
3. Marie Noel:  
Accuracy and precision of the mini-FLOTAC technique for generating equine strongyle egg counts. 2015.
4. Jamie Norris:  
Diagnosis of equine tapeworm in horses. Experiences with sample setup. 2016.
5. Julia Fabiani:  
Ascarid and large strongyle parasites in the UK Barn 10 herd. A retrospective study. 2016.
6. Faith Miller:  
*Strongyloides westeri* in naturally infected foals. 2017.
7. Hannah Went:  
The value of homogenizing fecal samples prior to determining egg counts. 2017.
8. Samantha Naughton:  
In vitro strongyle larval development assays. 2017.
9. Kelly Thomas:  
Cry5B in vivo treatment efficacy trial. 2017.
10. Taylor Shepherd:  
The seasonality and incidence of *Strongylus vulgaris* in untreated horses. 2018.
11. Haley Zynda:  
Spatial variation of encysted cyathostomin larval counts. 2018.
12. Kerri Peters:

- Interobserver agreement when performing strongyle fecal egg counts. 2019.
- 13. Haley Anderson:  
Evaluation of the potential for using CRY5B as a feed-through modality. 2019.
- 14. Katie Sandford:  
Stomach worms in horses. 2019.
- 15. Avery Martin:  
Precision of mucosal cyathostomin larval counts. 2019.
- 16. Mackenzie Smith:  
Evaluation of CRY5B enteric capsules against equine cyathostomins. 2020.
- 17. Alyssa Carpenter:  
DNA extraction from formalin-fixed parasite specimens. 2020.

#### Lincoln Memorial University veterinary student supervision:

##### Summer veterinary students:

- 1. Kayla Wielgus:  
Combination deworming – a possible solution or source of exacerbation for the disappearing drug classes? 2016.
- 2. Brittany Jones:  
Combination anthelmintic therapy – a viable strategy against resistance? 2017.
- 3. Morgan Clark:  
March comes in like a lion and out like a strongyle? 2018.
- 4. Chelsea Facison:  
Precision of pooled and individual coprocultures. 2019. 2020.
- 5. Daniel Doran:  
Sample homogenization and precision. 2020.

##### **External Examiner for PhD dissertation:**

- 1. PhD examination committee: Abdullah Daria AL-Anazi.  
Epidemiological studies on intestinal parasites of horses and anthelmintic resistance in NSW, Australia. January 2010, University of Sydney, Australia.
- 2. PhD examination committee: Steffanie Burk.  
Detection of antibodies against *Parascaris equorum* excretory-secretory antigens. August 1<sup>st</sup>, 2013. Department of Animal Science, UK.
- 3. PhD examination committee: Barbara Wadsworth  
Behavioral gait change characterization and detection using precision dairy monitoring technologies. February 9, 2017. Department of Animal Science, UK.

##### **Publications in peer reviewed journals:**

- 1. **Nielsen MK**, Monrad J, Olsen SN. Prescription-only anthelmintics - a questionnaire survey of strategies for surveillance and control of equine strongyles in Denmark. *Veterinary Parasitology* 2006, 135(1):47-55.
- 2. **Nielsen MK**, Haaning N, Olsen SN. Strongyle egg shedding consistency in horses on farms using selective therapy in Denmark. *Veterinary Parasitology* 2006, 135(3-4):333-335.
- 3. **Nielsen MK**, Kaplan RM, Thamsborg SM, Monrad J, Olsen SN. Climatic influences on development and survival of free-living stages of equine strongyles: implications for worm control strategies and managing anthelmintic resistance. *Veterinary Journal* 2007, 174(1):23-32.



4. Schougaard H, **Nielsen MK**. Apparent ivermectin resistance of *Parascaris equorum* in foals in Denmark. *Veterinary Record* 2007, 160(13):439-440.
5. Kjær L, Lungholt M, **Nielsen MK**, Olsen SN, Maddox-Hyttel C. Interpretation of serum antibody response to *Anoplocephala perfoliata* in relation to parasite burden and faecal egg count. *Equine Veterinary Journal* 2007, 39(6):529-533.
6. **Nielsen MK**, Peterson DS, Monrad J, Thamsborg SM, Olsen SN, Kaplan RM. Detection and semi-quantification of *Strongylus vulgaris* DNA in equine faeces by real-time quantitative PCR. *International Journal for Parasitology* 2008, 38(3-4):443-453.
7. Reinemeyer CR, **Nielsen MK**. Parasitism and colic. *Veterinary Clinics of North America: Equine Practice* 2009, 25(2):233-245.
8. **Nielsen MK**. Restrictions of anthelmintic usage: perspectives and potential consequences. *Parasites & Vectors*. 2009, 2((suppl 2)):S7.
9. Kaplan RM, **Nielsen MK**. An evidence-based approach to equine parasite control: It ain't the 60s anymore. *Equine Veterinary Education*. 2010, 22(6):306-316.
10. Denwood MJ, Reid S, Love S, **Nielsen MK**, Matthews L, McKendrick I, Innocent G. Comparison of three alternative methods for analysis of equine Faecal Egg Count Reduction Test data. *Preventive Veterinary Medicine* 2010, 93(4):316-323.
11. **Nielsen MK**, Vidyashankar A, Andersen UV, DeLisi K, Pilegaard K, Kaplan RM. Effects of fecal collection and storage factors on strongylid egg counts in horses. *Veterinary Parasitology* 2010, 167(1):55-61.
12. **Nielsen MK**, Fritzen B, Duncan JL, Guillot J, Eysker M, Dorschies P, Laugier C, Beugnet F, Meana A, Lussot-Kervern I, von Samson-Himmelstjerna G. Practical aspects of equine parasite control: A review based upon a workshop discussion consensus. *Equine Veterinary Journal* 2010, 5:460-468.
13. Becher A, Mahling M, **Nielsen MK**, Pfister K. Selective anthelmintic therapy of horses in the Federal states Of Bavaria (Germany) and Salzburg (Austria): An investigation into strongyle egg shedding consistency. *Veterinary Parasitology*. 2010, 171:116-122.
14. **Nielsen MK**. Anthelmintic usage in horses. *Pratique Veterinaire Equine* 2010. 42, 77-84.
15. **Nielsen MK**, Baptiste KE, Tolliver SC, Collins SS, Lyons ET. Analysis of multiyear studies in horses in Kentucky to ascertain whether counts of eggs and larvae per gram of feces are reliable indicators of numbers of strongyles and ascarids present. *Veterinary Parasitology* 2010. 174, 77-84.
16. Larsen ML, Ritz C, Petersen SL, **Nielsen MK**. Determination of ivermectin efficacy and egg reappearance period on horse farms using selective therapy. *Veterinary Journal* 2011. 188(1), 44-47.
17. Kyvsgaard NC, Lindbom J, Andreasen LL, Luna-Olivares LA, **Nielsen MK**, Monrad J. Prevalence and anthelmintic control of strongyles in working horses in Nicaragua. *Veterinary Parasitology*, 2011.181, 248-254.
18. Fog P, Vigre H, **Nielsen MK**. Strongyle egg counts in Standardbred Trotters – are they associated with race performance? *Equine Veterinary Journal*. 2011, 43, 89-92.
19. Bracken MK, Wøhlk CBM, Petersen SL, **Nielsen MK**. Evaluation of conventional PCR for detection of *Strongylus vulgaris* on horse farms. *Veterinary Parasitology* 2012, 184, 387-391.
20. **Nielsen, MK**. Equine Parasite Control – perspectives and research needs. *Veterinary Parasitology* 2012 185, 32-44.

21. Molento MB, **Nielsen MK**, Kaplan, RM. Avermectin/milbemyacin resistance in cyathostomins – current situation. *Veterinary Parasitology* 2012 185, 16-24.
22. **Nielsen MK**, Vidyashankar AN, Olsen SN, Monrad J, Thamsborg SM. *Strongylus vulgaris* associated with usage of selective therapy on Danish horse farms – is it reemerging? *Veterinary Parasitology* 2012, 189, 260-266.
23. **Nielsen MK**, Olsen SN, Lyons ET, Monrad J, Thamsborg SM. Real-time PCR evaluation of *Strongylus vulgaris* in horses on farms in Denmark and Central Kentucky. *Veterinary Parasitology* 2012, 190, 461-466.
24. Andersen UV, Haakansson IT, Roust T, Rhod M, Baptiste KE, **Nielsen MK**. Developmental stage of strongyle eggs affects the outcome variations of real-time PCR analysis. *Veterinary Parasitology* 2013, 191, 191-196.
25. Tyden E, Morrison DA, Engstrom A., **Nielsen MK**, Eydal E, Hoglund J. Population genetics of *Parascaris equorum* based on whole genome DNA fingerprinting. *Infection, Genetics and Evolution* 2013, 13, 236-241.
26. Andersen UV, Howe DK, Olsen SN, **Nielsen MK**. Recent advances in diagnosing pathogenic equine gastrointestinal helminths: The challenge of prepatent detection. *Veterinary Parasitology* 2013, 192, 1-9.
27. Carstensen H, Larsen L, Ritz C, **Nielsen MK**. Daily variability of strongyle fecal egg counts in horses. *Journal of Equine Veterinary Science* 2013, 33, 161-164.
28. Andersen UV, Howe DK, Dangoudoubiyam S, Toft N, Reinemeyer CR, Lyons ET, Olsen SN, Monrad J, Nejsum P, **Nielsen MK**. rSvSXP: A *Strongylus vulgaris* antigen with potential for prepatent diagnosis. *Parasites & Vectors* 2013, 6: 84.
29. Cao X, Vidyashankar AN, **Nielsen MK**. Association between large strongyle genera in larval cultures – using rare-event Poisson regression. *Parasitology* 2013, 140, 1246-1251.
30. **Nielsen MK**, Vidyashankar AN, Hanlon BM, Diao G, Petersen SL, Kaplan RM. Hierarchical model for evaluating pyrantel efficacy against strongyle parasites in horses. *Veterinary Parasitology* 2013, 197, 614-622.
31. **Nielsen MK**, Betancourt A, Lyons ET, Horohov DW, Jacobsen S. Characterization of the inflammatory response to anthelmintic treatment in ponies naturally infected with cyathostomin parasites. *Veterinary Journal* 2013, 198, 457-462.
32. **Nielsen MK**, Vidyashankar AN, Gravatte HS, Bellaw J, Lyons ET, Andersen UV. Development of *Strongylus vulgaris*-specific serum antibodies in naturally infected foals. *Veterinary Parasitology* 2014, 200, 265-270.
33. Andersen UV, Reinemeyer CR, Toft N, Olsen SN, Jacobsen S, **Nielsen MK**. Physiologic and systemic acute phase inflammatory responses in young horses repeatedly infected with cyathostomins and *Strongylus vulgaris*. *Veterinary Parasitology* 2014, 201, 67-74.
34. Peregrine AS, Molento MB, Kaplan RM, **Nielsen MK**. Anthelmintic resistance in important parasites of horses: does it really matter? *Veterinary Parasitology* 2014, 201, 1-8.
35. **Nielsen MK**, Pfister K, von Samson-Himmelstjerna G. Selective therapy in equine parasite control - application and limitations. *Veterinary Parasitology* 2014, 202, 95-103.
36. **Nielsen MK**, Reinemeyer CR, Donecker JM, Leathwick DM, Marchiondo AA, Kaplan RM. Anthelmintic resistance in equine parasites - current evidence and knowledge gaps. *Veterinary Parasitology* 2014, 204, 55-63.

37. **Nielsen MK**, Reist M, Kaplan RM, Pfister K, van Doorn DCK, Becher A. Equine parasite control under prescription-only conditions – awareness, knowledge, perception, and strategies applied. *Veterinary Parasitology* 2014, 204, 64-72.
38. Reinemeyer CR, Prado JC, Andersen UV, **Nielsen MK**, Schrick B, Kennedy T. Effects of daily pyrantel tartrate on strongylid population dynamics and performance parameters of young horses repeatedly infected with cyathostomins and *Strongylus vulgaris*. *Veterinary Parasitology* 2014, 204, 229-237.
39. Xu J, Vidyashankar AN, **Nielsen MK**. Drug Resistance or Re-emergence? Simulating Equine Parasites. *Transactions on Modeling and Computer Simulation*, 2014, 24, Article 20.
40. Henneke C, Jespersen A, Jacobsen S, **Nielsen MK**, Jensen, HE. The distribution pattern of *Halicephalobus gingivalis* in a horse is suggestive of a haematogenous spread of the nematode. *Acta Veterinaria Scandinavica* 2014, 56, 56.
41. Lyons ET, Tolliver SC, Kuzmina T, Dzeverin II, **Nielsen MK**, McDowell K. Profiles of strongyle EPG values for Thoroughbred mares on 15 farms in Kentucky (2012-2013). *Veterinary Parasitology* 2014, 205, 646-652.
42. Reinemeyer CR, **Nielsen, MK**. Review of the Biology and Control of *Oxyuris equi*. *Equine Veterinary Education* 2014, 26, 584-591.
43. **Nielsen MK**, Wang J, Davis R, Bellaw JL, Lyons ET, Lear TL, Goday C. *Parascaris univalens* – a victim of large-scale misidentification? *Parasitology Research* 2014, 113, 4485-4490.
44. **Nielsen MK**, Vidyashankar AN, Bellaw J, Gravatte HS, Cao X, Rubinson EF, Reinemeyer CR. Serum *Strongylus vulgaris*-specific antibody responses to anthelmintic treatment in naturally infected horses. *Parasitology Research* 2015, 114, 445-451.
45. **Nielsen MK**, Rubinson EF, Chambers TM, Horohov DW, Wagner B, Betancourt A, Reedy SE, Jacobsen J. Interaction between anthelmintic treatment and vaccine responses in ponies naturally infected with cyathostomins. *Veterinary Immunology and Immunopathology* 2015, 164, 110-117.
46. Leathwick DM, Donecker JM, **Nielsen MK**. A model for the dynamics of the free-living stages of equine cyathostomins. *Veterinary Parasitology* 2015, 209, 210-220.
47. Bellaw JL, **Nielsen MK**. Evaluation of Baermann apparatus sedimentation time on recovery of *Strongylus vulgaris* and *S. edentatus* third stage larvae from equine coprocultures. *Veterinary Parasitology* 2015, 211, 99-101.
48. **Nielsen MK**. Universal challenges for parasite control: a perspective from equine parasitology. *Trends in Parasitology* 2015 31, 282-284.
49. **Nielsen MK**, Scare J, Gravatte HS, Bellaw JL, Prado JC, Reinemeyer CR. Changes in serum *Strongylus vulgaris*-specific antibody concentrations in response to anthelmintic treatment of experimentally infected foals. *Frontiers in Veterinary Science* 2015, 2, 17.
50. Tolliver SC, Lyons ET, **Nielsen MK**, Bellaw J. Transmission of some species of internal parasites in horse foals born in 2013 in the same pasture on a farm in Central Kentucky. *Helminthologia* 2015, 52 (3), 211-218.
51. Robert M, Hu W, **Nielsen MK**, Stowe CJ. Attitudes towards implementation of surveillance-based parasite control on Kentucky Thoroughbred farms – current strategies, awareness, and willingness-to-pay. *Equine Veterinary Journal* 2015, 47, 694-700.

52. Adams AA, Betancourt A, Barker VD, Siard MH, Elzinga S, Bellaw JL, Amodie DM, **Nielsen MK**. Comparison of the immunologic response to anthelmintic treatment in old versus middle-aged horses. *Journal of Equine Veterinary Science* 2015, 35, 873-881.
53. Donoghue EM, Lyons ET, Bellaw JL, **Nielsen MK**. Biphasic appearance of corticated and decorticated ascarid egg shedding in untreated horse foals. *Veterinary Parasitology*, 2015, 214, 114-117.
54. Reinemeyer CR, Prado JC, **Nielsen MK**. Comparison of the larvicidal efficacies of moxidectin or a five-day regimen of fenbendazole in horses harbouring cyathostomin populations resistant to the adulticidal dosage of fenbendazole. *Veterinary Parasitology* 2015, 214, 100-107.
55. **Nielsen MK**, Loynachan AT, Jacobsen S, Stewart JC, Reinemeyer CR, Horohov DW. Local and systemic inflammatory and immunologic reactions to cyathostomin larvicidal therapy in horses. *Veterinary Immunology and Immunopathology* 2015, 168, 203-210.
56. **Nielsen MK**. Evidence-based considerations for control of *Parascaris* spp. infections in horses. *Equine Veterinary Education* 2016, 28, 224-231.
57. Bellaw JL, Pagan J, Cadell S, Phethean E, Donecker JM, **Nielsen MK**. Objective evaluation of two deworming regimens in young Thoroughbreds using parasitological and performance parameters. *Veterinary Parasitology* 2016, 221, 69-75.
58. **Nielsen MK**, von Samson-Himmelstjerna G, Pfister K., Reinemeyer CR, Molento MB, Peregrine AS, Hodgkinson JE, Jacobsen S, Kaplan RM, Matthews JB. The appropriate antiparasitic treatment; coping with emerging threats from old adversaries. *Equine Veterinary Journal* 2016, 48, 374-375.
59. **Nielsen MK**, Jacobsen S, Olsen S, Bousquet E, Pihl TH. Non-strangulating intestinal infarction associated with *Strongylus vulgaris* in referred Danish equine patients. *Equine Veterinary Journal* 2016, 48, 376-379.
60. **Nielsen MK**, Donoghue EM, Stephens ML, Stowe CJ, Donecker JM, Fenger CK. An ultrasonographic scoring method for transabdominal monitoring of ascarid burdens in foals. *Equine Veterinary Journal* 2016, 48, 380-386.
61. Slusarewicz P, Pagano S, Mills C, Popa G, Chow M, Mendenhall M, Rodgers DW, **Nielsen MK**. Automated parasite fecal egg counting using fluorescence labeling, smartphone image capture and computational image analysis. *International Journal for Parasitology* 2016 46, 485-493.
62. **Nielsen MK**. Equine tapeworm infections – disease, diagnosis, and control. *Equine Veterinary Education* 2016, 28, 388-395.
63. Leathwick DM, Donecker JM, **Nielsen MK**. A model for the development and growth of the parasitic stages of *Parascaris* spp. in the horse. *Veterinary Parasitology* 2016, 228, 108-115.
64. Fabiani JV, Lyons ET, **Nielsen MK**. Dynamics of *Parascaris* and *Strongylus* spp. parasites in untreated juvenile horses. *Veterinary Parasitology* 2016, 230, 62-66.
65. Kaspar A, Pfister K, **Nielsen MK**, Silaghi C, Fink H, Scheuerle MC. Detection of *Strongylus vulgaris* in equine faecal samples by real-time PCR and larval culture – method comparison and occurrence assessment. *BMC Veterinary Research* 2017, 13:19.
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**Book chapters**

1. Reinemeyer CR, **Nielsen MK**. Gastrointestinal nematodes. In: Sellon DC, Long MT (eds): Equine Infectious Diseases. USA: Elsevier. 2007, p. 480-490.
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3. **Nielsen MK**. Parasite screening and control. In Robinson E, Sprayberry K, (Eds). Current therapy in equine medicine, volume 7. Elsevier, USA 2014.
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1. Reinemeyer CR, **Nielsen MK**. Handbook of Equine Parasite Control. Wiley-Blackwell, John Wiley & Sons Inc. 2012.
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**PhD Dissertation**

**Nielsen MK**. Equine strongyle parasites: control strategies, epidemiology and improved methods for diagnosis of *Strongylus vulgaris*. Samfundslitteratur Grafik 2007.

**Guideline publication**

**Nielsen MK**, Mittel L, Grice A, Erskine M, Graves E, Vaala W, Tully RC, French DD, Bowman R, Kaplan RM. AAEP Parasite Control Guidelines. American Association of Equine Practitioners. Online at [www.aaep.org](http://www.aaep.org) on 3/25/2013. Revision published 6/3/2019.

**Conference contributions****Invited presentations: veterinary continuing education conferences**

1. **Nielsen MK**, Kaplan RM. Evidence-based equine parasitology - it ain't the 60s anymore. I: Proceedings 36èmes Journées annuelles AVEF. 2008, p. 10-14.
2. Kaplan RM, **Nielsen MK**. Basic concepts of anthelmintic resistance in equid parasites. ACVIM Forum: Rendezvous with Discovery, Montréal, Canada 3. - 06. June, 2009.
3. **Nielsen MK**, Kaplan RM. Diagnosis and management of anthelmintic resistance in equid parasites. Paper presented at ACVIM Forum: Rendezvous with Discovery, Montréal, Canada 3. - 06. June, 2009.
4. **Nielsen, M.K.** Deworming strategies for the young horse. UK Equine Showcase, January 20, 2012

5. **M. K. Nielsen.** Sustainable equine parasite control. Kentucky Equine Research Annual Meeting proceedings 2012.
6. **Nielsen, M.K.** Equine parasitology: the challenge of changing habits. KVMA, Louisville, KY, October 5-7, 2012.
7. **Nielsen, M.K.** Sustainable Equine Parasite Control: Dos and Don'ts. Equine Infectious Disease Conference, Practitioner Day, Lexington, KY, October 21, 2012.
8. **Nielsen, M.K.** Parasite control in the mare. Hagyard Bluegrass Symposium, Lexington, KY, November 1-4, 2012.
9. **Nielsen, M.K.** Anthelmintic resistance - the need for diagnostic surveillance. 10<sup>th</sup> International Equine Infectious Diseases Conference, Practitioner Day. Buenos Aires, Argentina, April 4-8, 2016.
10. **Nielsen, M.K.** Anthelmintic Resistance. European College of Equine Internal Medicine (ECEIM), Helsinki, Finland, November 4-5, 2016.
11. **Nielsen, M.K.** Endoparasite Control. European College of Equine Internal Medicine (ECEIM), Helsinki, Finland, November 4-5, 2016.
12. **Nielsen, M.K.** It's Sexy and It Glows: The Value of a Smartphone-Based Parasite Egg Counting System. American Association for Equine Practitioners. 62nd Annual Convention December 3-7, 2016.
13. **Nielsen, MK.** Integrated parasite control – how to strike that balance. In-Depth session. American Association for Equine Practitioners 60th Annual Convention Proceedings, pp. 401-406. December 6-10, 2014. Salt Lake City, Utah.
14. **Nielsen, MK.** Integrated parasite control in mature horses – a review of the evidence. Nordic Equine Veterinary Conference, Stockholm, Sweden, January 30-February 1, 2015.
15. **Nielsen, MK.** Parasite control in young horses - how to implement proper surveillance. Nordic Equine Veterinary Conference, Stockholm, Sweden, January 30-February 1, 2015.
16. **Nielsen, MK.** Parasitology research progress - a summary of recent work. Nordic Equine Veterinary Conference, Stockholm, Sweden, January 30-February 1, 2015.
17. **Nielsen, M.K.** Anthelmintic resistance in horses and livestock. American Veterinary Medical Association Annual Convention, Boston, Massachusetts. July 10-14, 2015. Proceeding # 543.
18. **Nielsen, M.K.** Screening of anthelmintic resistance on farms. American Veterinary Medical Association Annual Convention, Boston, Massachusetts. July 10-14, 2015. Proceeding # 544.
19. **Nielsen, MK.** Management of the horse with pinworm. British Equine Veterinary Association Conference, Birmingham, England, September 6-10, 2016, p.59.
20. **Nielsen, MK.** Potential re-emergence of the large strongyles. British Equine Veterinary Association Conference, Birmingham, England, September 6-10, 2016, p. 58.
21. **Nielsen, MK.** Current status of anthelmintic resistance in equine parasites. Midwest Veterinary Conference, February 23-26, 2017. Columbus, Ohio.
22. **Nielsen, MK.** Parasite diagnostics: What's new? Midwest Veterinary Conference, February 23-26, 2017. Columbus, Ohio.
23. **Nielsen, MK.** Anthelmintic resistance: what it means in practice. Veterinary Meeting Expo (VMX), January 31-February 7, 2018. Orlando, Florida.

24. **Nielsen, MK.** Equine parasite diagnostics: what's new? Veterinary Meeting Expo (VMX), January 31-February 7, 2018. Orlando, Florida.
25. **Nielsen, MK.** Equine parasitic disease: treatment options and outcomes. Veterinary Meeting Expo (VMX), January 31-February 7, 2018. Orlando, Florida.
26. **Nielsen, MK.** Anthelmintic resistance – what can we do about it? KVMA Mid-America Veterinary Conference, September 18-19, 2020. Virtual Online.
27. **Nielsen, MK.** Parasite diagnostics – are they any good and why? KVMA Mid-America Veterinary Conference, September 18-19, 2020. Virtual Online.
28. **Nielsen, MK.** Parasitic disease in horses – what's the evidence? KVMA Mid-America Veterinary Conference, September 18-19, 2020. Virtual Online.
29. **Nielsen, MK.** Equine parasite control guidelines. Midwest Veterinary Conference, February 16-18, 2021. Virtual Online.
30. **Nielsen, MK.** Equine parasite diagnostics: Application and interpretation. Midwest Veterinary Conference, February 16-18, 2021. Virtual Online.
31. **Nielsen, MK.** Equine Parasitic Disease: Presentation and management. Midwest Veterinary Conference, February 16-18, 2021. Virtual Online.

#### **Invited presentations – national and international scientific conferences:**

32. **Nielsen MK.** Parasitter og resistens: tema 1. Hestekongres: Landsudvalget for Heste's Årsmøde og faglig eftermiddag, Fredericia, Danmark 27. januar, 2007.
33. **Nielsen MK.** Equine tapeworms - do they cause disease? Equine Parasitology Symposium, Lexington, Kentucky, USA 24. - 25. March, 2009.
34. **Nielsen MK.** Restriction of drug usage - lessons from European experience. Parasitology Symposium, Lexington, Kentucky, USA 24. - 25. March, 2009.
35. **Nielsen MK.** Parasite control strategies: A review of the evidence. British Equine Veterinary Association Conference, Manchester, England September 11-14, 2013, pp. 67-68.
36. **Nielsen MK.** Prevention and management of endoparasites in foals. British Equine Veterinary Association Conference, Manchester, England September 11-14, 2013, pp. 70.
37. **Nielsen, MK.** Occasionally important parasites. British Equine Veterinary Association Conference, Manchester, England September 11-14, 2013, pp. 76.
38. **Nielsen MK.** Equine parasite control - trends, traditions, and evidence. New Zealand Society for Parasitology Conference, Palmerston North, New Zealand, October 20-22, 2013.
39. **Nielsen, M.K.** Anthelmintic Resistance – Survival of the Fittest? The 66th Annual Midwestern Conference of Parasitologists, Lexington, KY, June 5-7, 2014, abstract 10 (keynote presentation).
40. **Nielsen, MK.** Clinical aspects of equine parasitism. Midwest Veterinary Conference, February 23-26, 2017. Columbus, Ohio.
41. **Nielsen, MK.** Equine helminth parasites: epidemiology, diagnostics, anthelmintic resistance, and disease. University of Iceland, Science Day (Vísindadagur á Keldum), April 20, 2018, p. 6.
42. **Nielsen, MK.** Equine parasitology research: What's new? University of Iceland, Science Day (Vísindadagur á Keldum), April 20, 2018, p.15.

43. **Nielsen, MK.** Equine parasite control - where are we heading? New Zealand Society for Parasitology, Annual Meeting, no. 46. 25-26 October, 2018. Palmerston North, New Zealand. Abstract 1, p. 11.

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45. **Nielsen MK, Monrad J, Olsen SN.** Prescription only on anthelmintic drugs - a questionnaire survey on strategies for diagnosis and treatment of equine strongyles in Denmark. 50. annual meeting. American Association of veterinary Parasitologists. 2005, p. 37.
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  130. **Nielsen, M.K.** New take on an old concept: automated fecal egg counts. New Zealand Society for Parasitology, Annual Meeting, no. 46. 25-26 October, 2018. Palmerston North, New Zealand. Abstract 3, p. 12.
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15. **Nielsen, M.K.** Field anthelmintic efficacy study. 2016-2017. Merial Inc. \$20,297 (*PI, 5% effort, Industry funding*).
16. **Nielsen, M.K.** Mucosal inflammatory reaction study. 2016-2017. Zoetis LLC. \$20,132 (*PI, 5% effort, Industry funding*).
17. **Nielsen, M.K.** (PI). WITNESS Parasight validation studies – strongyles and ascarids. 2016-2017. Zoetis LLC. \$31,186 (*PI, 10% effort, Industry funding*).
18. **Nielsen, M.K.** (PI). Combination anthelmintic therapy – short and long term benefits. 2016-2018. Zoetis LLC. \$79,888 (*PI, 10% effort, Industry funding*).
19. **Nielsen, M.K.** (PI). Fluorescence-Based Diagnostic Imaging Modalities. 2016-2018. MEP Equine Solutions LLC, \$40,954 (*PI, 5% effort, Industry funding*).
20. **Nielsen, M.K.** Zoetis resident in veterinary parasitology. National Center for Veterinary Parasitology (NCVP, Oklahoma State University). 2016-2020. \$200,000 (*Graduate student support, Nationally competitive*).
21. **Nielsen, M.K.** Anthelmintic Efficacy of Novel Compounds Against Equine Strongyles - a Proof of Principle Study. 2017-2018. Merial Ltd, \$40,059 (*PI, 5% effort, Industry funding*).
22. Adams, A.A., **Nielsen, M.K.** To determine the effects of Diamond V XPC supplementation on immune function in senior horses. 2018-2019. Diamond V. \$25,781 (*Co-PI, 5% effort, Industry funding*).
23. **Nielsen, M.K.** (PI). The role of moxidectin in worm expulsion. 2018-2019. Zoetis LLC. \$35,801 (*PI, 5% effort, Industry funding*).

24. Matthews, J.B., Austin, C., **Nielsen, M.K.** A test for detection of equine small strongyles; supporting sustainable worm control in practice. Horsetrust Grant. 2018-2020. UK Subaward for \$54,270 (*Co-PI, 10% effort, Nationally competitive*).
25. **Nielsen, M.K.** Larvicidal versus non-larvicidal treatment of cyathostomin parasites: Immunologic and histologic responses to macrocyclic lactone treatment. 2019-2021. Zoetis LLC. \$236,914 (*PI, 10% effort, Industry funding*).
26. **Nielsen, M.K.** Efficacy Determination of Novel Anthelmintic Compounds. 2019-2020. Boehringer Ingelheim. \$55,400 (*PI, 10% effort, Industry funding*).

#### **Philanthropy:**

1. **Nielsen MK** (PI), Aroian R. In vitro efficacy of *Bacillus thuringiensis* crystal proteins against equine parasites. Pilot study. 2013-2014. Funded by crowdfunding (\$12,937 accumulated by 4/01/2016).
2. **Nielsen, M.K.** (PI). Next-generation DNA sequencing for diagnosing horse parasites. Private donations from local horse farms, 2015. \$18,000.
3. **Nielsen, M.K.** (PI). Historic Parasitology Research Herds. Crowdfunding campaign. \$70,455 accumulated by 02/01/2017.
4. **Nielsen, M.K.**, Jostes, D. Fundraiser in support of parasitology research herds, 2019-2020. \$103,300 accumulated as of 2/13/2020.

#### **Intramural:**

1. **Nielsen, MK** (PI), Gaskill, C, Smith, L. Establishment of normal values for moxidectin concentrations in brain tissue of horses. Koller Priority Response Research Endowment. 2014-2015. \$19,285.
2. **Nielsen, M.K.** (PI), Scare, J. Gene expression evaluation of ivermectin susceptible *Parascaris* spp. in foals – a gateway for identifying genetic mechanisms behind ivermectin resistance. Gluck Equine Research Foundation, 10/8/15. \$24,250.
3. **Nielsen, M.K.** (PI). The Gluck equine parasite collection; exploring the scientific value. Gluck Equine Research Foundation, 10/22/19. \$20,000.

#### **Denmark:**

1. **Nielsen MK** (PI). Development of new control strategies for *Strongylus vulgaris* using novel diagnostic tools for parasite surveillance. Danish Agency for Science, Technology and Production. 2008-2010. PI. DKK 1,912,545 (\$354,175).
2. **Nielsen MK.** Danish Elite Scientist Award (2009), Danish Agency for Science, Technology and Production. DKK 200,000 (\$37,000).
3. **Nielsen MK.** Diagnosis of equine Strongyles. Bernhard Bang's Memorial Foundation (2005). DKK 5,750 (\$1,064).
4. **Nielsen MK.** Diagnosis of equine Strongyles. Veterinarian Hans-Peter Christensen's Memorial Foundation (2005) DDK 15,000 (\$2,777).
5. **Nielsen MK.** Diagnosis of equine Strongyles. The Kustos Foundation of 1881 (2005). DDK 40,000 (\$7,400).

6. **Nielsen MK.** Diagnosis of equine Strongyles. Chief Researcher R. Nørtoft Thomsen's Grant (2004). DDK 15,000 (\$2,777).
7. **Nielsen MK.** Diagnosis of equine Strongyles. Memorial Foundation of H.P. Olesen and Wife (2004). DDK 24,000 (\$4,444).
8. **Nielsen MK.** Diagnosis of equine Strongyles. Intervet Denmark's Grant for Young Researchers in Vet Sci (2005). DDK 6,000 (\$1,111).
9. **Nielsen MK.** Diagnosis of equine Strongyles. Anniversary Foundation of Kreaturforsikringen Danmark (2005). DDK 10,000 (\$1,850).
10. **Nielsen MK.** Diagnosis of equine Strongyles. Estate owner Victor A. Goldschmidt's Grant (2004). DKK 15,000 (\$2,777).
11. **Nielsen MK.** Diagnosis of equine Strongyles. Christian and Ottilia Brorson's Travel Grant (2004). DKK 7,000 (\$1,296).
12. **Nielsen MK.** Diagnosis of equine Strongyles. The Equine Levy Foundation (2005). DKK 50,000 (\$9,259).

**License:**

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