



**Prof. Soon Hon Cheng**

Assistant Professor  
Cornell University

**Curriculum Vitae**

Soon Hon Cheong  
Department of Clinical Sciences, Box 34  
College of Veterinary Medicine  
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**Education**

Institution	Degree	Year	Field
Universiti Putra Malaysia	DVM	2003	Veterinary Medicine
Cornell University	PhD	2012	Comparative Biomedical Sciences

**Professional Training and Experience**

**CURRENT:**

Assistant Professor of Reproductive Medicine, (July 1st 2012 – present) Department of Clinical Sciences, College of Veterinary Medicine, Cornell University, Ithaca, New York.

Section Chief of the Theriogenology Section (April 22 2014 – present)

**PREVIOUS POSITIONS:**

Intern, Ambulatory and Production Medicine, June 9 2003 – July 18, 2004; Ambulatory Clinic, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York.

Resident, Ambulatory and Production Medicine, July 19, 2004 – July 16, 2006; Ambulatory Clinic, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York.

Resident, Theriogenology, July 17, 2006 – August 10, 2008; Cornell University Hospital for

Animals, College of Veterinary Medicine, Cornell University, Ithaca, New York.  
Graduate Research Assistant, (August 11, 2008 – June 30, 2012); Field of Comparative  
Biomedical Sciences, Cornell University, Ithaca, New York.

*Concurrent:* (Summer 2010 - 2012) Additional appointment (10%) to provide didactic clinical coverage as service chief of Theriogenology.

### **Refereed Publications (\*First author is my trainee)**

1. R.C. Bicalho, **S.H. Cheong**, L.D. Warnick, D.V. Nydam, C.L. Guard. The effect of digit amputation or Arthrodesis surgery on culling and milk production in holstein dairy cows. *Journal of Dairy Science*. 2006 Jul 89(7):2596-2602. PMID:16772579
2. R.C. Bicalho, **S.H. Cheong**, L.D. Warnick, C.L. Guard. Evaluation of progesterone supplementation in a prostaglandin F2 $\alpha$  based presynchronization protocol before timed insemination. *Journal of Dairy Science*. 2007 Mar 90(3):1193-1200. PMID:17297094
3. R.C. Bicalho, **S.H. Cheong**, C.L. Guard. Field technique for the resection of the distal interphalangeal joint joint and proximal resection of the deep digital flexor tendon in cows. *Veterinary Record*. 2007 Mar 160(13):435-439. PMID:17400902
4. R.C. Bicalho, K.N. Galvao, **S.H. Cheong**, R.O. Gilbert, L.D. Warnick, C.L. Guard. Effect of stillbirths on dam survival and reproductive performance in Holstein dairy cows. *Journal of Dairy Science*. 2007 Jun 90(6): 2797-2803. PMID:17517720
5. R.C. Bicalho, **S.H. Cheong**, G. Cramer, C.L. Guard. Association between visual and an automated locomotion score in lactating Holstein cows. *Journal of Dairy Science*. 2007 Jul 90(7):3293-3300. PMID:17582114
6. R.C. Bicalho, **S.H. Cheong**, K.N. Galvao. L.D. Warnick, C.L. Guard. Effects of twin birth calvings on milk production, reproductive performance, and survival of lactating cows. *Journal of the American Veterinary Medical Association*. 2007 Nov 231(9)1390-1397. PMID:17976002
7. R.C. Bicalho, H.M. Mayers, **S.H. Cheong**, B.V. Rosa, C.L. Guard. Omasal dilation and displacement in 4 Holstein dairy cows. *Canadian Veterinary Journal*. 2009 Apr 50(4)393-396. PMID:19436447

8. A. Alcaraz, A. Warren, C. Jackson, J. Gold, M. McCoy, **S.H. Cheong**, S. Kimball, S. Sells, N.S. Taus, T. Divers, H. Li. Naturally occurring sheep-associated malignant catarrhal fever in North American pigs. *Journal of Veterinary Diagnostic Investigation*. 2009 Mar 21(2):250- 253. PMID:19286508
9. **S.H. Cheong**, D.V. Nydam, K.N. Galvão, B.M. Crosier, R.O. Gilbert. Cow and herd-level risk factors for subclinical endometritis in lactating dairy cows. *Journal of Dairy Science*. 2011 Feb 94(2):762-770. PMID:21257044
10. K.N. Galvão, G.M. Pighetti, **S.H. Cheong**, D.V. Nydam and R.O. Gilbert. Association between interleukin-8 receptor  $\alpha$  (CXCR1) polymorphism and disease incidence, production, reproduction, and survival in Holstein cows. *Journal of Dairy Science*. 2011 Apr 94(4):2083- 2091. PMID:21426999
11. **S.H. Cheong**, D.V. Nydam, K.N. Galvão, B.M. Crosier, A. Ricci, L.C. Caixeta, R.B. Sper, M. Fraga, R.O. Gilbert. Use of reagent test strip for the diagnosis of endometritis in dairy cows. *Theriogenology*. 2012 Mar 15 77(5):858-864. PMID:22030034
12. **S.H. Cheong**, D.V. Nydam, K.N. Galvão, B.M. Crosier, R.O. Gilbert. Effect of diagnostic low-volume uterine lavage shortly before first service on reproduction, culling, and milk production in dairy cows. *Theriogenology*. 2012 Apr 1 77(6):1217-1222. PMID:22192391
13. R. M. Radcliffe, T.H. Witte, S.L. Fubini, N.G. Ducharme, **S.H. Cheong**, R. O. Gilbert. *Theriogenology* case of the month – Surgical treatment of preputial injury secondary to blunt trauma in a bull. *Journal of the American Veterinary Medical Association*. 2012 Aug 15 241(4):439-442. PMID:22852567
14. K.A. Beltaire, **S.H. Cheong**, M.A. Coutinho da Silva. Equine uterine fungal isolates and antifungal susceptibility patterns: 92 cases (1999 – 2011). *Equine Veterinary Journal*. 2012 Dec;44 Suppl 43:84-87. PMID:23447884
15. M. Bezjian, N. Abou-Madi, G.V. Kollias, J.E. Parks, **S.H. Cheong**, K.A. Beltaire. Characterization and cryopreservation of semen from endangered Markhor goats (capra)

- falconeri hepineri) with evaluation of reproductive seasonality. *Journal of Zoo and Wildlife Medicine*. 2013 Sep;44(3):672-685. PMID: 24063096
16. V.S. Machado, M.L. Bicalho, E.B. Meira, R. Rossi, B.L. Ribeiro, S. Lima, T. Santos, A. Kussler, C. Foditsch, E.K. Ganda, G. Oikonomou, **S.H. Cheong**, R.O. Gilbert, R.C. Bicalho. Immunization with inactivated bacterial components and purified protein of *Escherichia coli*, *Fusobacterium necrophorum*, and *Trueperella pyogenes* prevents puerperal metritis in Holstein dairy cows. *PLoS ONE* 2014 9(3) e91734 PMID:24638139
  17. **S.H. Cheong**, R.O. Gilbert. Massive vulvar edema in two prepartum dairy cows. *Canadian Veterinary Journal* 2014 May 55(5):462-465. PMID:24790232
  18. V.A. Absalon-Medina\*, S. Bedford-Guaus, R.O. Gilbert, L.Siqueira, G Esposito, A. Schneider, **S.H. Cheong**, W.R. Butler. The effects of conjugated linoleic acid isomers, cis-9, trans-11 and trans-10, cis-12, on in vitro bovine embryo production and cryopreservation. *Journal of Dairy Science* 2014 Oct;97(10):6164-6176. PMID:25087029
  19. J.B. Nagashima, S.R. Sylvester, J.L. Nelson, **S.H. Cheong**, C. Lambo, J.A. Flanders, V. Meyers-Wallen, N. Songsasen, A.J. Travis. Live births from domestic dog (*canis familiaris*) embryo produced by *In Vitro* Fertilization. *PLoS ONE* 2015 Dec9;10(12):e0143930. PMID:26650234
  20. **S.H. Cheong**, O.G. Sá Filho, V.A. Absalon-Medina, S.H. Pelton, W.R. Butler, R.O. Gilbert. Metabolic and endocrine differences between dairy cows that do or do not ovulate first postpartum dominant follicles. *Biology of Reproduction* 2016 Dec;94(1):18 PMID:26632612
  21. C.G. Donnelly\*, **S.H. Cheong**, R.O. Gilbert. Unilateral auto-immune orchitis with concurrent contralateral testicular atrophy in a 2-year-old Newfoundland dog. *Veterinary Record Case Reports*. 2016 Mar 1;4(1):e000277
  22. J.C. Dockweiler\*, B. Cossic, S.P. McDonough, S.L. Fubini, K.M. Le, C.G. Donnelly, R.O. Gilbert, **S.H. Cheong**. Tumor collision of uterine adenocarcinoma and leiomyosarcoma in a goat. *Journal of Veterinary Diagnostic Investigation*. 2016 Accepted

23. J.C. Dockweiler\*, B. Cossic, C.G. Donnelly, R.O. Gilbert, E. Buckles, **S.H. Cheong**. Infertility associated with the absence of endometrial progesterone receptors in a bitch. *Reproduction in Domestic Animals*. 2017 Feb, 52(1) 174-178. PMID:27862412.
24. J.C. Dockweiler\*, **S.H. Cheong**, R.O. Gilbert. Perineal laceration following obstructive dystocia in a bitch. *Clinical Theriogenology*. 2017 March 9(1) 77-80.
25. **S.H. Cheong**, O.G. Sá Filho, V.A. Absalon-Medina, A. Schneider, W.R. Butler, R.O. Gilbert. Uterine and systemic inflammation influences ovarian follicular function in postpartum dairy cows. *PLoS ONE*. 2017 May 12(5):e0177356  
doi:<https://doi.org/10.1371/journal.pone.0177356>. PMID: 28542500

### Non-refereed Publications

Invited perspective: A veterinary student perspective on trying to make a difference in the international veterinary community. *World Veterinary Association Bulletin* January 2002.

Invited by then president of the World Veterinary Association Dr Jim Edwards.

Commentary – DogWatch March 2015 “Scientist Study a Nonsurgical Way to Sterilize Cats and Dogs”.

Commentary – CatWatch June 2015 “Study Seeks to Develop Nonsurgical Sterilization”.

### Abstracts: (\*presenter)

1. R.C. Bicalho, **S.H. Cheong\***, L.D. Warnick, D.V. Nydam and C.L. Guard. 2006. Survival of commercial dairy cows after digit amputation or arthrodesis surgery. *AABP Proceedings* 39:246.
2. R.C. Bicalho, **S.H. Cheong\***, L.D. Warnick and C.L. Guard. 2006. Correlation between visual locomotion score and an electronic locomotion scoring system. *AABP Proceedings* 39:245.
3. R.C. Bicalho, **S.H. Cheong\***, L.D. Warnick and C.L. Guard. 2006 Correlation between visual locomotion scoring and the presence or absence of painful foot lesions. *AABP Proceedings* 39:244.

4. R.C. Bicalho\*, **S.H. Cheong**, L.D. Warnick and C.L. Guard. 2006 Correlation between visual locomotion scoring and the presence or absence of painful foot lesions. 14th International Symposium and 6th Conference on Lameness in Ruminants 184.
5. R.C. Bicalho\*, **S.H. Cheong**, L.D. Warnick and C.L. Guard. 2006. Correlation between visual locomotion score and an electronic locomotion scoring system. 14th International Symposium and 6th Conference on Lameness in Ruminants 183.
6. R.C. Bicalho\*, **S.H. Cheong**, L.D. Warnick, D.V. Nydam and C.L. Guard. 2006. The effect of digit amputation or arthrodesis surgery on culling and milk production in Holstein dairy cows. 14th International Symposium and 6th Conference on Lameness in Ruminants 130-131.
7. R. Bicalho, H. Meyers, **S.H. Cheong\***, B. Rosa and C. Guard. 2008. Omasal dilatation in 4 Holstein dairy cows. Hungarian Vet. J. 130 (Suppl II):259
8. **S. Cheong\***, D. Nydam, K. Galvao and R. Gilbert. 2008. Prevalence of subclinical endometritis in lactating New York State dairy cows shortly before first service. Hungarian Vet. J. 130(Suppl II): 156
9. V.A. Absalon-Medina\*, S.J. Bedford-Guaus, R. O. Gilbert, L.C. Siqueira, G. Esposito, A. Schneider, **S.H. Cheong**, W.R. Butler. 2011. Effect of conjugated linoleic acid supplementation on in vitro bovine embryo production and cryopreservation. J. Anim Sci. 89 E-Suppl. 1/ J Dairy Sci 94 E Suppl. 1 67-68.
10. P.H. Hung\*, W. Alshafie, **S.H. Cheong**, R.O. Gilbert, S. S. Suarez. 2013 Differential distribution of annexins, the binding partners of Binder of Sperm protein, in the oviduct of periovulatory cows. Society for the Study of Reproduction annual meeting proceedings (July 22-26, Montreal, Canada).
11. V.A. Absalon-Medina\*, **S.H. Cheong**, R.O. Gilbert, and W.R. Butler. 2013 Conjugated linoleic acid (CLA) does not improve post-thaw performance of expanded-stage in vitro produced bovine embryos. J Anim Sci 91 E-Suppl. 2/ J. Dairy Sci. 96 E-Suppl. 1 348.

12. V.A. Absalon-Medina\*, **S.H. Cheong**, R.O. Gilbert, and W.R. Butler. 2013 Enhancing peri-compaction bovine embryo glucose metabolism in vitro in preparation for a hypoxic uterine environment. J Anim Sci 91 E-Suppl. 2/ J. Dairy Sci. 96 E-Suppl. 1 348.
13. A. Giglio, **S.H. Cheong**, Q.V. Neri, Z. Rosenwaks, G.D. Palermo\*. 2013 ICSI-ON-A-CHIP. Fertility and Sterility Suppl 100(3) S479.
14. S.M. Lawlis\*, **S.H. Cheong** 2014 Viscoelasticity as a potential selector of superior sperm for in vitro fertilization. Clinical Theriogenology Sep;6(3) 347.
15. M.Y. Yang\*, **S.H. Cheong**, J.E. Fortune. 2014 Bisphenol A inhibits estradiol production and alters abundance of mRNA for key steroidogenic enzymes and estrogen receptor  $\beta$  in granulosa cells from bovine preovulatory follicles. Society for the Study of Reproduction
16. **S.H. Cheong\***, Q.V. Neri, Z. Rosenwaks, G.D. Palermo. 2014 Injection device built on a 3D printer for a LAB-ON-A-CHIP. Fertility and Sterility Suppl 102(3) E135.
17. **S.H. Cheong\***, S. M. Lawlis, R. O. Gilbert 2015 Parturition augmentation in mares – Efficacy and safety. Clinical Theriogenology Sep; 7(3):303.
18. A.J. Cornelius\*, **S.H. Cheong** 2016 Risk factors for canine dystocia and stillbirths. Clinical Theriogenology Sep; 8(3):312.
19. E.M. Sitko\*, **S.H. Cheong** 2017 Longitudinal study of metritis risk in dairy cattle. Clinical Theriogenology
20. Y.W. Xia\*, A.J. Cornelius, C.G. Donnelly, R.C. Bicalho, **S.H. Cheong**, J.L. Sones 2017 Metagenomic analysis of the equine placental microbiome. Clinical Theriogenology.
21. A.J. Cornelius\*, R.C. Bicalho, **S.H. Cheong** 2017 The canine vaginal microbiome and association with puppy survival. Clinical Theriogenology

## Research Grants

### Current:

1. Granting Agency: USDA, National Institute of Food and Agriculture, Research Grants Program in Animal Health  
Title: Investigating the link between metabolic health and reproductive function in the dairy cow  
Dates of Funding : July 1, 2016 – June 30, 2018 Amount \$97,312  
Role: P.I.
  
2. Granting Agency: HATCH National Institute of Food and Agriculture - USDA  
Title: Maternal microbiome and relationship with neonatal health in dairy cows  
Dates of Funding: Oct 1, 2014 – Sep 30, 2017 Amount \$75,000  
Role: PI Co-PI Bicalho, RC; Gilbert RO
  
3. Granting Agency: Jack Lowe Equine Health Funds, College of Veterinary Medicine, Cornell University  
Title: Translating advances in human reproductive ultrasonography to equine practice  
Dates of Funding: Apr 1, 2017 Amount \$20,364  
Role: PI Co-PI Mariana Diel de Amorim
  
4. Granting Agency: Center for Vertebrate Genomics, Cornell University  
Title: Genomics approach to uncover the mechanism of oocyte rejuvenation  
Dates of Funding: Amount \$14,957  
Role: Co-PI P.I. Sergiy Libert
  
5. Granting Agency: Ann S. and Robert R. Morley Student Research Fund  
Title: Microfluidic sperm sorting chip  
Dates of Funding : Amount \$400  
Role: Mentor
  
6. Granting Agency: CALS Charitable Trust Research support program  
Title: Microfluidic sperm sorting chip  
Dates of Funding : Amount \$600  
Role: Mentor





Role: Mentor

## Teaching

### **VETERINARY STUDENT FOUNDATION COURSES**

(Foundation courses include entire DVM class 80-100 students)

VTMED 5701: Veterinary Practice: Physical Examination – 1.5 Credits

*Coordinator: Dr Nita Irb*

VTMED 5703: Veterinary Practice: Communication Skills – 1 Credit

*Coordinators: Dr James Morrissey, Dr Carolyn McDaniel*

VTMED 5704: Veterinary Practice: Introduction to clinical procedures– 0.5 Credits

*Coordinator: Dr Nita Irby.*

VTMED 5310: Function & Dysfunction Part II – 7 credits

*Coordinator: Dr Richard Rawson*

VTMED 5510: Animal Health and Diseases Part II – 20 credits

*Coordinator: Drs Danny Scott, Susan Fubini, Lorin Warnick.*

### **VETERINARY STUDENT DISTRIBUTION COURSES**

VTMED 6536: Advanced Dairy Reproduction – 2 credits. (20 - 25 students/year)

*Coordinators: Dr. Soon Hon Cheong*

VTMED 6534: Equine Reproduction – 2 credits (20 - 25 students per year)

*Course Coordinator: Dr. Soon Hon Cheong*

VTMED 6631: Diagnosis and Treatment of Diseases of the Dairy Cow – A case based approach utilizing hospitalized cases – 1 credit (20-25 students per class)

*Coordinators: Dr Thomas Divers, Dr Susan Fubini*

VTMED 6542: Medical and surgical problems of dairy cattle – Emphasis on the individual animal - 1.5 credit (25 students per class)

*Coordinator: Dr Susan Fubini*



Asian Meeting of  
Animal Medicine Specialties 2017  
11~12 November 2017, EXCO, Daejeon, Korea

VTMED 6599 SEC: Research Opportunity in Veterinary Medicine – 2 credit  
Thomas Smith DVM class of 2015 Spring 2015  
Erica Huyck DVM class of 2015 Spring 2015  
Ben Kasl DVM class of 2018 Spring 2015  
Linda Paul DVM class of 2018 Fall 2014 – Spring 2015  
Alyssa Cornelius DVM class of 2019 Spring 2015 - Spring 2017  
*Coordinator: Dr Soon Hon Cheong*

**VETERINARY STUDENT CLINICAL ROTATIONS**

VTMED 5600: Ambulatory and Production Medicine – 2 credits  
*Coordinator: Dr Maurice White, Dr Charles Guard III*

VTMED 6600: Theriogenology service – 2 credits  
*Coordinator: Dr. Soon Hon Cheong*

VTMED 6613: Equine Specialty Rotation - 2 credits (15 students)  
*Coordinator: Dr Richard Hackett, Dr Gillian Perkins*

VTMED 6598: Special projects in veterinary medicine  
Thomas Smith DVM class of 2015 (11/3/2014 – 11/16/2014)  
Anna Payne DVM class of 2017 (1/3/2016 – 1/16/2016)  
Susan Sperling DVM class of 2019 (1/23/2017 – 3/17/2017)

**SUMMER SCHOOL COURSES**

ANSC 1120: Sustainable Animal Husbandry – 3 credits (25 students)  
*Coordinator: Dr Melanie Soberon*

VETCS 1210: Veterinary Medicine: Equine Practice – 3 credits (30 students)  
*Coordinators: Drs Eva Conant, Allison Miller*

**UNDERGRADUATE COURSES**

ANSC 3540: Dairy Cattle Herd Health – 3 credits (40 students)  
*Coordinator: Dr Paula Ospina*

BIOG 2990: Independent Undergraduate Research – 3 credits

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BIOG 4990: Independent Undergraduate Research – 1 – 3 credits  
GRADUATE COURSES

VETCS 7040: Pathophysiology of urogenital surgery – 1 credit  
*Coordinator: Dr Richard Hackett*

## **Advising**

### **HOUSE OFFICER ADVISING**

Igor Cannisso DVM 2003 (Federal University of Parana), M.S. (Federal University of Viçosa),  
PhD (University of Kentucky Gluck Equine Research Center)  
2009-2011 Theriogenology Resident: Passed ACT exam 2011, ECAR 2012  
Current status: Assistant Professor University of Illinois Urbana Champaign

Kirsty Gallacher BVMS 2006 (University of Glasgow)  
2010 – 2012 Theriogenology Resident: Passed ACT exam 2012  
Current status: Lecturer University of Adelaide, Australia

Sonya Lawlis DVM 2012 (Cornell University)  
2012 – 2013 Theriogenology Intern  
2013 – 2015 Theriogenology Resident: Passed ACT exam 2016  
Current Status: Private practice equine

Whitney Brown DVM 2011 (Auburn University)  
2012 – 2013 Theriogenology Resident:  
Current Status: Terminated after 1 year

Robyn Ellerbrock DVM 2012 (Cornell University)  
2013 – 2014 Theriogenology Intern: Passed ACT exam 2016  
Current Status: PhD student University of Illinois Urbana Champaign

Callum Donnelly BVSc (Charles Sturt University Wagga Wagga)  
2014 – 2016 Theriogenology Resident: Passed ACT exam 2016  
Current Status: Resident of Large Animal Internal Medicine UC- Davis



Jennifer Sones DVM 2008 (Louisiana State University) PhD 2015 (Cornell University)  
2014 – 2016 Alternative track Theriogenology Resident: Passed ACT exam 2016  
Current Status: Assistant Professor Louisiana State University

Jenna Dockweiler DVM 2014 (Kansas State University) MS (Kansas State University 2012)  
2015 – 2017 Theriogenology Resident  
Current Status: In program

Juan Castillo Herrera MV 2015 (National University of Colombia)  
2016 – 2018 Theriogenology Resident  
Current Status: In program

### **STUDENT ORGANIZATION ADVISING**

Theriogenology club 2016

### **PROFESSIONAL ORGANIZATIONS**

#### **Activity in National or Regional Associations**

*American College of Theriogenologists:*

- Scientific Abstract Committee – ad hoc member (2012- 2014).
- Awards Nominating Committee – member (2014)

#### **AMAMS 2017 Secretariat**

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