

Bethany J. Funnell, DVM

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Education**Doctor of Veterinary Medicine (Food Animal Track)**

Purdue University School of Veterinary Medicine, West Lafayette, Indiana 2000-2004

Professional Experience**2005-Present****Reproductive Biotechnology Center Coordinator**

University of Minnesota North Central Research and Outreach Center

Provide commercial reproductive services to cattle producers throughout the state of Minnesota, including but not limited to: enrolling donor females into a superstimulation protocol, performing embryo recovery, transferring embryos into recipient cows, freezing embryos for storage and shipment, monitoring storage of embryos and semen used in embryo transfer protocols; schedule donor females for embryo recovery, recipient females for transfer, receive semen shipments for breeding, administer therapeutics to donor and recipient females, observe and record all reproductive events of the donor and recipient females; provide other reproductive services including, but not limited to ultrasound examinations, bull breeding soundness exams; responsible for providing regulated services to regional producers, such as, but not limited to: TB testing, Johne's Disease testing, calfhooed vaccinations, and official veterinary inspection for interstate as well as international export; Maintain inventory for equipment and supplies, and order replacement supplies as needed; invoiced clients for products and services rendered.

U of M Beef Team

University of Minnesota, various

Preparation and delivery of producer education pieces, such as, but not limited to: articles for popular press, producer education talks/presentations domestically and internationally, CFANS guest lectures, and home study course materials.

Research Associate, Cow/calf Management Veterinarian

University of Minnesota North Central Research and Outreach Center

Mentored a senior veterinary students and undergraduate students during internships and externships required for completion of coursework; work as a collaborator on research protocols at University of Minnesota involving beef cattle; serve as active member of the Ag Subcommittee for the University of Minnesota Institutional Animal Care and Use Committee; provided all required veterinary services to the research beef herd at the North Central Research and Outreach Center, including, but not limited to: development and review of the annual herd health protocol, calfhooed vaccination of heifers, breeding soundness exams in bulls, ultrasound exams, embryo recovery and transfer, TB testing, Johne's Disease testing, and any emergency

services; provide services for routine procedures for other University of Minnesota Research and Outreach Centers.

Research Experience

Bridges, G.A., H.P. Dias, S.G. Kruse, B.J. Funnell, S.L. Bird. Effect of response to GnRH on follicular diameter and pregnancy rates in beef cows synchronized using the 5-Day Co-Synch + CIDR protocol. (ongoing)

Bridges, G.A., G.A. Perry, S.L. Lake, R.P. Lemenager. Effect of post-AI nutrient restriction on embryo competence in beef heifers. (ongoing).

Bridges, G.A., M.L. Day, T.W. Geary, M. Da Silva. Effect of circulating progesterone concentrations on oocyte competence. (ongoing)

Bridges, G.A., R.A. Cushman. Evaluating the effect of metabolic status on oocyte competence and uterine environment in beef cows. (ongoing)

Lamb, G.C., C.R. Dahlen, K. A. Vonnehamme, G. R. Hansen, J. D. Arseneau, G. A. Perry, R.S. Walker, J. Clement, J. D. Arthington. 2007. Influence of a CIDR prior to bull-breeding on pregnancy rates and subsequent calving distribution. Anim. Reprod. Sci. D-07-988.

Lamb, G.C., J.E. Larson, T.W. Geary, J.S. Stevenson, S.K. Johnson, M.L. Day, R. P. Ansotegui, D. J. Kesler, J.M. DeJarnette, and D. Landblom. 2006. Synchronization of estrus and artificial insemination in replacement beef heifers using GnRH, PGF 2α and progesterone. J. Anim. Sci. 84:3000-3009.

Larson, J. E., G.C. Lamb, J. S. Stevenson, S. K. Johnson, M. L. Day, T. W. Geary, D. J. Kesler, J. M. DeJarnette, F. N. Schrick, A. DiCostanzo, and J. D. Arseneau. 2006. Synchronization of estrus in suckled beef cows for detected estrus and artificial insemination and timed artificial insemination using gonadotropin-releasing hormone, prostaglandin F 2α , and progesterone. J. Anim. Sci. 84:332-342.

Dahlen, C.R., J.E. Larson, G. Marquezini, G.C. Lamb. 2007. Effects of human chorionic gonadotropin (hCG) and gonadotropin releasing hormone (GnRH) on follicle and corpus luteum dynamics and concentrations of progesterone in pre-pubertal Angus heifers. J. Anim. Sci. 85 (Suppl. 1):648

Lamb, G.C., J.E. Larson, C.R. Dahlen, G. Marquezini. 2007. Fixed-time artificial insemination in replacement beef heifers after treatment with human chorionic gonadotropin (hCG), progesterone, and prostaglandin F 2α . J. Anim. Sci. 85 (Suppl. 1):321.

Publications

Abstracts

Bridges, G.A., S.G. Kruse, **B. J. Funnell**, S.L. Bird. 2011. Effect of change of body condition score of donor and recipient on ovarian function, endocrine status, and pregnancy success in beef cows. SSR 45th Annual Meeting (Submitted).

Kruse, S.G., **B.J. Funnell**, S.L. Bird, G.A. Bridges. 2011. Effect of change of body condition score on embryo quality and yield in postpartum beef cows. SSR 45th Annual Meeting (Submitted).

Marquezini, G, C.R. Dahlen, M. Blason, S.L. Bird, J.E. Larson, **B.J. Lovaas**, S. Lares, G.C. Lamb. 2008. Effects of administration of prostaglandin F 2α (PG) 5 or 7 d after receiving human chorionic gonadotropin (hCG) or gonadotropin releasing hormone (GnRH) in replacement beef heifers. J. Anim. Sci. (Submitted).

Burns, M.G., B.S. Buttrey, D.R. Eborn, J.E. Larson, **B.J. Lovaas**, G.C. Lamb, K.C. Olson, J.S. Stevenson. 2007. Evaluation of human chorionic gonadotropin (hCG) as a replacement for GnRH in an ovulation-synchronization protocol before fixed timed AI. J. Anim. Sci. 85 (Suppl. 1):320.

Lamb, G.C., **B.J. Lovaas**, S.L. Bird, A. Martins, J.E. Larson, J.C. Rodgers, D.J. Frank, D.M. Williams. 2007. Artificial insemination of superovulated Angus cows using sexed or conventionally frozen semen. J. Anim. Sci. 85 (Suppl. 1):322.

Thielen, K. N. J. E. Larson, **B. J. Lovaas**, D. J. Kesler, J. S. Stevenson, T. T. Marston, and G.C. Lamb. 2006. Influence of a CIDR insert after a fixed-time AI on pregnancy rates and return to estrus of nonpregnant cows. J. Anim. Sci. 84 (Suppl. 1):432.

Popular Press

Minnesota Farm Guide

“Preparing for the Breeding Season? Here are some things you should know” May 4, 2012

“Tips on controlling parasites in the feedlot” December 19, 2009

“Beef Team gives tips for parasite control in the cow herd” October 21, 2009

“External parasite control for the beef herd” April 9, 2009

“Making preparations for a successful calving season” February 16, 2009

“Considerations for preg check to help save time, money, labor” November 5, 2008

“Establishing fluid therapy for dehydrated cows/calves” March 13, 2008

“Calving begins: causes and prevention of calf scours” February 15, 2008

“Colostrum – the first line of defense for new calves” February 2, 2008

“Identify and prevent BVD ‘persistently infected’ calves” September 16, 2007

“Bull fertility and culling decisions” March 31, 2007

“BVD in the cow herd” September 29, 2006

“BVD in the feedlot” September 15, 2006

“Pinkeye- a disease of plenty” June 8, 2006

“Neonatal calf scours and fluid therapy” March 30, 2006

“Managing retained placenta” March 2, 2006

“Managing mother’s milk – colostrum” February 16, 2006 (co-author)

“Respiratory disease management in the feedlot” November 25, 2005

“Feedlot health management key to success” November 10, 2005

“Pre-weaning vaccinations” August 31, 2005

IM Cowgirl Magazine (discontinued)

“Genomics 101” September 2009 (unpublished)

“Can cows really fly?” July 2009

“Making the most of the breeding season” May 2009

“When and how to castrate calves” March 2009

“Getting ready for spring pasture...” January 2009

“What to do with the opens?” November 2008

“Ready, set, go!” August 2008

“What is bovine tuberculosis?” May 2008 (co-author)

“Early considerations for the new pair” March 2008

Interview contributions to popular press

“Immunity & Challenges” by Clint Peck Contributing Editor BEEF Magazine March 1, 2008

“Up & Running” by Alaina Burt Managing Editor BEEF Magazine March 1, 2008

“Weaning Management” by Clint Peck Contributing Editor BEEF Magazine September 1, 2008

“Neospora caninum is a heart breaker for cow/calf operations” by Andrea Johnson Minnesota Farm Guide January 19, 2006

Extension Presentations

“Management of Liver Flukes in North Central Minnesota” Grand Rapids Area Cattlemen May 2012

“Industry Overview: Embryo Transfer in the United States” Bangladesh Agricultural University, Mymensingh, Bangladesh, August 2011

“Practical Embryo Transfer: Equipment and Supplies” Bangladesh Agricultural University, Mymensingh, Bangladesh, August 2011

“Donor Cow Manipulation: Managing Follicular Waves for Successful Recoveries” Bangladesh Agricultural University, Mymensingh, Bangladesh, August 2011

“Embryo Transfer Part 1: Step by Step Guide to Recovery and Handling of Embryos” Bangladesh Agricultural University, Mymensingh, Bangladesh August 2011

“Embryo Transfer Part 2: Freezing Embryos for Storage” Bangladesh Agricultural University, Mymensingh, Bangladesh August 2011

“Recipient Cows: Selection, Synchronization, and Embryo Transfer” Bangladesh Agricultural University, Mymensingh, Bangladesh August 2011

“Pregnancy Diagnosis via Ultrasound Technology” Bangladesh Agricultural University, Mymensingh, Bangladesh August 2011

“Cow Management: Maximizing Success in Donor and Recipient Cows” Bangladesh Agricultural University, Mymensingh, Bangladesh August 2011

“Feeding Moldy Feeds and the Impact on Animals and Humans” Wild Rice Cattlemen’s Club January 2010

“Preparation for Calving and Care of the Newborn Calf” Timeryazev University Kaluga, Russia June 2009

“Pregnancy Diagnosis via Ultrasound Technology” Timeryazev University Kaluga, Russia June 2009

“The Future of Agriculture in Minnesota” Snake River Valley Cattlemen’s Association January 2009

“Breeding Soundness Exams” CRI sponsored meeting in Bagley and Greenbush, MN January 2009

“Veterinary Medicine on the Farm” Farm Bureau Young Farmers Association April 2007

“Preparing for the Calving Season” Central Cattlemen’s Association January 2007

“Biosecurity for Beef Herds” MN Beef Expo October 2006

“Vaccination Strategies: From Birth to Birth” U of M Cow/calf Days February 2006 “Beef Cow Calendar” U of M Beef Team Fall Beef Round-Up October 2005

“Preventative Medicine: Principles of vaccination” Snake River Valley Cattlemen’s Association September 2005

“Preventative Medicine, Internal Medicine, and Surgery on the Farm” Central Cattlemen’s Association October 2005

Teaching Experience

University of Minnesota St. Paul, MN

Guest Lectures

AnSci 4603 – Beef Production Systems Management	September 2006-Present
Lecture Topic - Vaccinations and Herd Health	

Professional Organizations

American Embryo Transfer Association (Certified Embryo Transfer Business)

American Association of Bovine Practitioners