# Paul M Fricke

## List of Publications by Citations



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| 74 papers | 3,004 citations | 34 h-index | 53 g-index |
| 76 ext. papers | 3,566 ext. citations | 3.3 avg, IF | 5.02 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 74 | Effect of increasing GnRH and PGF2α dose during Double-Ovsynch on ovulatory response, luteal regression, and fertility of lactating dairy cows. *Theriogenology*, **2013**, 80, 773-83 | 2.8 | 261 |
| 73 | Effect of dietary organic zinc, manganese, copper, and cobalt supplementation on milk production, follicular growth, embryo quality, and tissue mineral concentrations in dairy cows. *Journal of Animal Science*, **2010**, 88, 3856-70 | 0.7 | 241 |
| 72 | Follicular deviation and acquisition of ovulatory capacity in bovine follicles. *Biology of Reproduction*, **2001**, 65, 1403-9 | 3.9 | 230 |
| 71 | Evaluation of growth, cell proliferation, and cell death in bovine corpora lutea throughout the estrous cycle. *Biology of Reproduction*, **1994**, 51, 623-32 | 3.9 | 109 |
| 70 | Effect of milk production on the incidence of double ovulation in dairy cows. *Theriogenology*, **1999**, 52, 1133-43 | 2.8 | 100 |
| 69 | Increased fertility in lactating dairy cows resynchronized with Double-Ovsynch compared with Ovsynch initiated 32 d after timed artificial insemination. *Journal of Dairy Science*, **2012**, 95, 639-53 | 4 | 87 |
| 68 | Efficacy of decreasing the dose of GnRH used in a protocol for synchronization of ovulation and timed AI in lactating dairy cows. *Theriogenology*, **1998**, 50, 1275-84 | 2.8 | 75 |
| 67 | Effect of progesterone on magnitude of the luteinizing hormone surge induced by two different doses of gonadotropin-releasing hormone in lactating dairy cows. *Journal of Dairy Science*, **2012**, 95, 3781-93 | 4 | 73 |
| 66 | Assessment of an accelerometer system for detection of estrus and treatment with gonadotropin-releasing hormone at the time of insemination in lactating dairy cows. *Journal of Dairy Science*, **2012**, 95, 7115-27 | 4 | 73 |
| 65 | Relationships between fertility and postpartum changes in body condition and body weight in lactating dairy cows. *Journal of Dairy Science*, **2014**, 97, 3666-83 | 4 | 68 |
| 64 | Detection of anovulation by heatmount detectors and transrectal ultrasonography before treatment with progesterone in a timed insemination protocol. *Journal of Dairy Science*, **2008**, 91, 2901-15 | 4 | 68 |
| 63 | Accuracy of a pregnancy-associated glycoprotein ELISA to determine pregnancy status of lactating dairy cows twenty-seven days after timed artificial insemination. *Journal of Dairy Science*, **2007**, 90, 4612-22 | 4 | 59 |
| 62 | Factors associated with pregnancy-associated glycoprotein (PAG) levels in plasma and milk of Holstein cows during early pregnancy and their effect on the accuracy of pregnancy diagnosis. *Journal of Dairy Science*, **2015**, 98, 2502-14 | 4 | 57 |
| 61 | A daily herd Markov-chain model to study the reproductive and economic impact of reproductive programs combining timed artificial insemination and estrus detection. *Journal of Dairy Science*, **2012**, 95, 5442-5460 | 4 | 56 |
| 60 | Supplementation of progesterone via controlled internal drug release inserts during ovulation synchronization protocols in lactating dairy cows. *Journal of Dairy Science*, **2010**, 93, 922-31 | 4 | 56 |
| 59 | An economic decision-making support system for selection of reproductive management programs on dairy farms. *Journal of Dairy Science*, **2011**, 94, 6216-32 | 4 | 55 |
| 58 | Effect of human chorionic gonadotropin administered early in the estrous cycle on ovulation and subsequent luteal function in cows. *Journal of Animal Science*, **1993**, 71, 1242-6 | 0.7 | 55 |

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| 57 | Reproductive performance of lactating dairy cows managed for first service using timed artificial insemination with or without detection of estrus using an activity-monitoring system. *Journal of Dairy Science*, **2014**, 97, 2771-81 | 4 | 48 |
| 56 | Genetic parameters for anovulation and pregnancy loss in dairy cattle. *Journal of Dairy Science*, **2009**, 92, 5739-53 | 4 | 48 |
| 55 | Prediction of insemination outcomes in Holstein dairy cattle using alternative machine learning algorithms. *Journal of Dairy Science*, **2014**, 97, 731-42 | 4 | 47 |
| 54 | Factors affecting pregnancy loss for single and twin pregnancies in a high-producing dairy herd. *Theriogenology*, **2009**, 71, 1462-71 | 2.8 | 47 |
| 53 | Effects of twinning on the subsequent reproductive performance and productive lifespan of high-producing dairy cows. *Theriogenology*, **2012**, 78, 2061-70 | 2.8 | 46 |
| 52 | Association of changes among body condition score during the transition period with NEFA and BHBA concentrations, milk production, fertility, and health of Holstein cows. *Theriogenology*, **2017**, 104, 30-36 | 2.8 | 45 |
| 51 | Effect of dry period length on reproduction during the subsequent lactation. *Journal of Dairy Science*, **2009**, 92, 3081-90 | 4 | 44 |
| 50 | In vitro production of bovine embryos using sex-sorted sperm. *Theriogenology*, **2006**, 65, 1007-15 | 2.8 | 43 |
| 49 | Development of fertility programs to achieve high 21-day pregnancy rates in high-producing dairy cows. *Theriogenology*, **2018**, 114, 165-172 | 2.8 | 42 |
| 48 | Effect of timing of initiation of resynchronization and presynchronization with gonadotropin-releasing hormone on fertility of resynchronized inseminations in lactating dairy cows. *Journal of Dairy Science*, **2013**, 96, 3788-98 | 4 | 37 |
| 47 | Changes in serum pregnancy-associated glycoprotein, pregnancy-specific protein B, and progesterone concentrations before and after induction of pregnancy loss in lactating dairy cows. *Journal of Dairy Science*, **2012**, 95, 683-97 | 4 | 37 |
| 46 | Analysis of reproductive performance of lactating cows on large dairy farms using machine learning algorithms. *Journal of Dairy Science*, **2006**, 89, 4703-22 | 4 | 37 |
| 45 | Economics of resynchronization strategies including chemical tests to identify nonpregnant cows. *Journal of Dairy Science*, **2013**, 96, 949-61 | 4 | 35 |
| 44 | Assessment of a practical method for identifying anovular dairy cows synchronized for first postpartum timed artificial insemination. *Journal of Dairy Science*, **2007**, 90, 3255-62 | 4 | 35 |
| 43 | Observed frequency of monozygotic twinning in Holstein dairy cattle. *Theriogenology*, **2006**, 66, 1292-9 | 2.8 | 35 |
| 42 | Methods for and Implementation of Pregnancy Diagnosis in Dairy Cows. *Veterinary Clinics of North America - Food Animal Practice*, **2016**, 32, 165-80 | 4.6 | 34 |
| 41 | Effect of gonadotropin treatment on size, number, and cell proliferation of antral follicles in cows. *Domestic Animal Endocrinology*, **1997**, 14, 171-80 | 2.3 | 34 |
| 40 | Effect of interval to resynchronization of ovulation on fertility of lactating Holstein cows when using transrectal ultrasonography or a pregnancy-associated glycoprotein enzyme-linked immunosorbent assay to diagnose pregnancy status. *Journal of Dairy Science*, **2009**, 92, 3643-50 | 4 | 33 |

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| 39 | Modifications to Ovsynch improve fertility during resynchronization: Evaluation of presynchronization with gonadotropin-releasing hormone 6 d before initiation of Ovsynch and addition of a second prostaglandin F2 treatment. *Journal of Dairy Science*, **2015**, 98, 8741-52 | 4 | 31 |
| 38 | The association between occurrence and severity of subclinical and clinical mastitis on pregnancies per artificial insemination at first service of Holstein cows. *Journal of Dairy Science*, **2015**, 98, 3791-805 | 4 | 29 |
| 37 | Effect of pretreatment with prostaglandin F2alpha before resynchronization of ovulation on fertility of lactating dairy cows. *Journal of Dairy Science*, **2007**, 90, 5509-17 | 4 | 29 |
| 36 | Manipulation of progesterone to increase ovulatory response to the first GnRH treatment of an Ovsynch protocol in lactating dairy cows receiving first timed artificial insemination. *Journal of Dairy Science*, **2015**, 98, 8800-13 | 4 | 28 |
| 35 | Supplemental progesterone and timing of resynchronization on pregnancy outcomes in lactating dairy cows. *Journal of Dairy Science*, **2013**, 96, 7032-7042 | 4 | 26 |
| 34 | Effect of presynchronization with human chorionic gonadotropin or gonadotropin-releasing hormone 7 days before resynchronization of ovulation on fertility in lactating dairy cows. *Journal of Dairy Science*, **2012**, 95, 5612-25 | 4 | 26 |
| 33 | Management of dry and transition cows to improve energy balance and reproduction. *Journal of Reproduction and Development*, **2010**, 56 Suppl, S22-8 | 2.1 | 26 |
| 32 | Presynchronization using a modified Ovsynch protocol or a single gonadotropin-releasing hormone injection 7 d before an Ovsynch-56 protocol for submission of lactating dairy cows to first timed artificial insemination. *Journal of Dairy Science*, **2014**, 97, 6305-15 | 4 | 24 |
| 31 | Effects of twin pregnancy and dry period feeding strategy on milk production, energy balance, and metabolic profiles in dairy cows. *Journal of Animal Science*, **2010**, 88, 1048-60 | 0.7 | 23 |
| 30 | Growth and cellular proliferation of antral follicles throughout the follicular phase of the estrous cycle in Meishan gilts. *Biology of Reproduction*, **1996**, 54, 879-87 | 3.9 | 23 |
| 29 | Short communication: Effect of adding a second prostaglandin F injection during the Ovsynch protocol on luteal regression and fertility in lactating dairy cows: A meta-analysis. *Journal of Dairy Science*, **2018**, 101, 8566-8571 | 4 | 22 |
| 28 | Use of a single injection of long-acting recombinant bovine FSH to superovulate Holstein heifers: a preliminary study. *Theriogenology*, **2014**, 82, 481-9 | 2.8 | 22 |
| 27 | Effect of manipulating progesterone before timed artificial insemination on reproductive and endocrine parameters in seasonal-calving, pasture-based Holstein-Friesian cows. *Journal of Dairy Science*, **2016**, 99, 6780-6792 | 4 | 20 |
| 26 | Adding a second prostaglandin F2 treatment to but not reducing the duration of a PRID-Synch protocol increases fertility after resynchronization of ovulation in lactating Holstein cows. *Journal of Dairy Science*, **2016**, 99, 3869-3879 | 4 | 19 |
| 25 | An economic evaluation of management strategies to mitigate the negative effect of twinning in dairy herds. *Journal of Dairy Science*, **2018**, 101, 8335-8349 | 4 | 17 |
| 24 | Characterization of luteal dynamics in lactating Holstein cows for 32 days after synchronization of ovulation and timed artificial insemination. *Journal of Dairy Science*, **2017**, 100, 9851-9860 | 4 | 16 |
| 23 | Effect of timing of Cosynch on fertility of lactating Holstein cows after first postpartum and Resynch timed-AI services. *Theriogenology*, **2007**, 67, 1211-6 | 2.8 | 16 |
| 22 | Temporarily decreasing progesterone after timed artificial insemination decreased expression of interferon-tau stimulated gene 15 (ISG15) in blood leukocytes, serum pregnancy-specific protein B concentrations, and embryo size in lactating Holstein cows. *Journal of Dairy Science*, **2017**, 100, 3233-3242 | 4 | 15 |

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| 21 | Effects of deep-horn AI on fertilization and embryo production in superovulated cows and heifers. *Theriogenology*, **2013**, 80, 1074-81 | 2.8 | 14 |
| 20 | Fertility of lactating Holstein cows submitted to a Double-Ovsynch protocol and timed artificial insemination versus artificial insemination after synchronization of estrus at a similar day in milk range. *Journal of Dairy Science*, **2017**, 100, 8507-8517 | 4 | 14 |
| 19 | Effect of treatment with human chorionic gonadotropin 7 days after artificial insemination or at the time of embryo transfer on reproductive outcomes in nulliparous Holstein heifers. *Journal of Dairy Science*, **2019**, 102, 2593-2606 | 4 | 12 |
| 18 | Potential applications and pitfalls of reproductive ultrasonography in bovine practice. *Veterinary Clinics of North America - Food Animal Practice*, **2005**, 21, 419-36 | 4.6 | 12 |
| 17 | Effect of dose and timing of prostaglandin F treatments during a Resynch protocol on luteal regression and fertility to timed artificial insemination in lactating Holstein cows. *Journal of Dairy Science*, **2018**, 101, 1730-1736 | 4 | 12 |
| 16 | Involvement of lipopolysaccharide in ovarian cystic follicles in dairy cow: Expressions of LPS receptors and steroidogenesis-related genes in follicular cells of cystic follicles. *Animal Reproduction Science*, **2018**, 195, 89-95 | 2.1 | 11 |
| 15 | Effects of acute feed restriction combined with targeted use of increasing luteinizing hormone content of follicle-stimulating hormone preparations on ovarian superstimulation, fertilization, and embryo quality in lactating dairy cows. *Journal of Dairy Science*, **2014**, 97, 764-78 | 4 | 10 |
| 14 | Effect of feeding rolled flaxseed on milk fatty acid profiles and reproductive performance of dairy cows. *Journal of Animal Science*, **2010**, 88, 3739-48 | 0.7 | 10 |
| 13 | Optimization of reproductive management programs using lift chart analysis and cost-sensitive evaluation of classification errors. *Journal of Dairy Science*, **2015**, 98, 3717-28 | 4 | 7 |
| 12 | Short communication: Economic impact among 7 reproductive programs for lactating dairy cows, including a sensitivity analysis of the cost of hormonal treatments. *Journal of Dairy Science*, **2020**, 103, 5654-5661 | 4 | 7 |
| 11 | Effect of manipulating progesterone before timed artificial insemination on reproductive and endocrine outcomes in high-producing multiparous Holstein cows. *Journal of Dairy Science*, **2019**, 102, 7509-7521 | 4 | 6 |
| 10 | Studies of FSH-P induced follicular growth in cows. *Theriogenology*, **1994**, 42, 43-53 | 2.8 | 6 |
| 9 | Strategic treatment of anovular dairy cows with GnRH. *Theriogenology*, **2009**, 71, 534-42 | 2.8 | 5 |
| 8 | Genetic analysis of the twenty-one-day pregnancy rate in US Holsteins using an ordinal censored threshold model with unknown voluntary waiting period. *Journal of Dairy Science*, **2007**, 90, 1987-97 | 4 | 5 |
| 7 | Short communication: Effect of timing of induction of ovulation relative to timed artificial insemination using sexed semen on pregnancy outcomes in primiparous Holstein cows. *Journal of Dairy Science*, **2020**, 103, 10856-10861 | 4 | 4 |
| 6 | Economics of Twin Pregnancies in Dairy Cattle. *Animals*, **2021**, 11, | 3.1 | 4 |
| 5 | Human chorionic gonadotropin dose response for induction of ovulation 7 days after a synchronized ovulation in lactating Holstein cows. *JDS Communications*, **2021**, 2, 35-40 | 1.4 | 2 |
| 4 | Effect of route of administration of dinoprost tromethamine on plasma profiles of 13,14-dihydro-15-keto-prostaglandin F2 and progesterone in lactating Holstein cows. *JDS Communications*, **2021**, | 1.4 | 1 |

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| 3 | Economic impact of adding a second prostaglandin F treatment during an Ovsynch protocol using a meta-analytical assessment and a stochastic simulation model. *Journal of Dairy Science*, **2021**, 104, 12153-12163 | 4 | 0 |
| 2 | Replacing the first gonadotropin-releasing hormone treatment in an Ovsynch protocol with human chorionic gonadotropin decreased pregnancies per artificial insemination in lactating dairy cows. *Journal of Dairy Science*, **2021**, 104, 8290-8300 | 4 | 0 |
| 1 | Comparison of reproductive management programs for submission of Holstein heifers for first insemination with conventional or sexed semen based on expression of estrus, pregnancy outcomes, and cost per pregnancy. *Journal of Dairy Science*, **2021**, 104, 12953-12967 | 4 | 0 |