RESEARCH & PUBLICATIONS

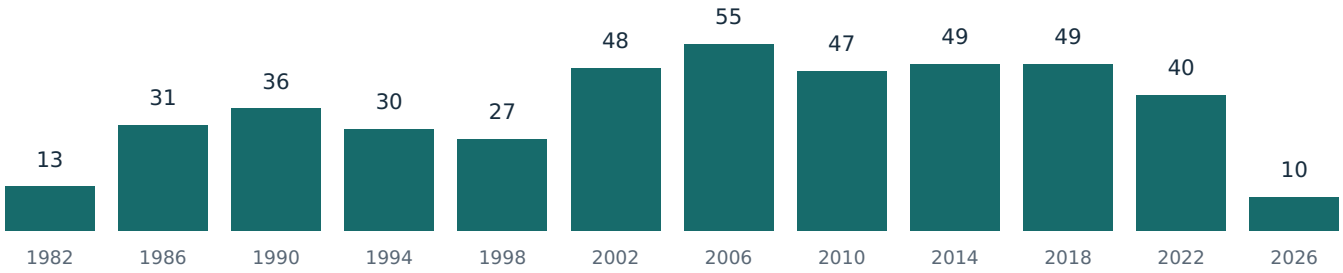
Peter J Hansen

A publication record at a glance

435	19,171	74
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 4-year periods



MOST CITED IN THIS LIST

Effects of Heat Stress on Mammalian Reproduction — 626
2009 Philosophical Transactions of the Royal Society B: Biological Sciences

Is the Temperature-Humidity Index the Best Indicator of Heat Stress in Lactating Dairy Cows in a Subtropical Environment? — 540
2009 Journal of Dairy Science

Physiological and Cellular Adaptations of Zebu Cattle to Thermal Stress — 537
2004 Animal Reproduction Science

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Ordered by publication year, newest first

2026

01 Metabolomic Profiling of Neat Uterine Luminal Fluid in Cows: Local Enrichment and Nutritional Modulation

4 citations

Veterinary Quarterly · 46, 2611849

https://exaly.com/article/209112159

02 179 Rumen-Protected Methionine Supplementation During the Periconceptional Period to Beef Cows Induces Persistent Changes in DNA Methylation in the Whole Blood of Female Offspring

1 citations

Reproduction, Fertility and Development

https://exaly.com/article/209168472

03 Alterations in Gene Expression and DNA Methylation in the Bovine Blastocyst in Response to Choline Supplementation During Culture

1 citations

Biology of Reproduction · 114, 1568-1581

https://exaly.com/article/209411886

04 Oral Administration of Rumen-Protected Choline to Ewes During the Periconceptional Period Skews the Sex Ratio of Lambs

0 citations

Reproduction and Fertility

https://exaly.com/article/210562331

05 106. Sexual Dimorphism of Supplementation With Rumen-Protected Methionine in Early Gestation in Beef Cattle Systems

0 citations

Journal of Animal Science

https://exaly.com/article/212217396

06 Six Things to Know About How Heat Stress Compromises Fertility of the Cow (and Probably Other Mammals as Well)

0 citations

Journal of Reproduction and Development · 72, 301-308

https://exaly.com/article/215052632

07 Genetic Differences in Thermoregulatory Ability Between Sheep Reared in a Hot Humid Environment

0 citations

Journal unavailable

https://exaly.com/article/218341126

08 PS3-17. Sexual Dimorphism of Supplementation With Rumen-Protected Methionine in Early Gestation in Beef Cattle Systems – Postweaning Effects.

0 citations

Journal of Animal Science

https://exaly.com/article/225370421

09 PS1-8. Sperm Motility Evaluation in Bulls Fresh Semen Using Two Portable Computer-Assisted Sperm Analysis System.

0 citations

Journal of Animal Science

https://exaly.com/article/225370448

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2026 / continued

10 The Maternal Blood Transcriptome Reflects Molecular Signatures Associated With Large Offspring Syndrome and Other Adverse Pregnancy Outcomes in Cattle

0 citations

FASEB Journal

https://exaly.com/article/228574712

2025

11 Lack of Effect of Cyclic Adenosine Monophosphate Modulation During Prematuration in Vitro on Development to the Blastocyst Stage and Expression of Specific Genes Associated With Lineage Commitment

1 citations

JDS Communications · 6, 171-174

https://exaly.com/article/193657794

12 Maintaining Breed Integrity: Successful Introgression of the SLICK1 Allele Into the Holstein Breed.

8 citations

Journal of Heredity · 116, 216-224

https://exaly.com/article/193697168

13 Impact of Dietary Supplementation of Beef Cows With Rumen-Protected Methionine During the Periconceptional Period on Prenatal Growth and Performance to Weaning

8 citations

Journal of Animal Science

https://exaly.com/article/195904159

14 Effects of Endometrial Embryokines on the Preimplantation Bovine Embryo to Create a Gene Expression Signature Consistent With a High Competence Phenotype

2 citations

Biology of Reproduction · 112, 447-457

https://exaly.com/article/197578872

15 Interactions Between Type of Culture Medium and Addition of Serum on Development and Gene Expression of Bovine Blastocysts Produced in Vitro

3 citations

Physiological Genomics · 57, 256-265

https://exaly.com/article/198120508

16 Feeding Rumen-Protected Choline During the Periconceptional Period Programs Postnatal Phenotype of Suckled Beef Calves

6 citations

Journal of Animal Science and Biotechnology · 16, 48

https://exaly.com/article/199544003

17 Consequences of Varying Methionine Concentrations on Development of the Bovine Embryo in Vitro

4 citations

Biology of Reproduction · 113, 765-776

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2025 / continued

18 The Ontogeny of Circadian Clock Gene Expression During Mouse Fetal Development
1 citations
Biochemistry and Biophysics Reports · 44, 102216
https://exaly.com/article/204427191

19 Association of Genes Involved in the Circadian Clock With Polysomes in the Bovine Preimplantation Embryo
0 citations
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https://exaly.com/article/205193470

20 Short Communication: Relationships Between Novel Breeding Values for Heat Tolerance and Rectal Temperature During Heat Stress in Lactating Holstein Cows
0 citations
Journal of Animal Science
https://exaly.com/article/206900589

2024

21 Meta-Analysis to Determine Efficacy of Colony-Stimulating Factor 2 for Improving Pregnancy Success After Embryo Transfer in Cattle
6 citations
Theriogenology · 219, 126-131
https://exaly.com/article/176585277

22 Machine Learning to Identify Endometrial Biomarkers Predictive of Pregnancy Success Following Artificial Insemination in Dairy Cows†.
15 citations
Biology of Reproduction · 111, 54-62
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23 Consequences of Gene Editing of PRLR on Thermotolerance, Growth, and Male Reproduction in Cattle
26 citations
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https://exaly.com/article/186384068

24 Ovarian Hyperplasia Linked to a Mutation in MAN1A2 in a Cow With Excessive Follicular Growth and Functional Oocytes
0 citations
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https://exaly.com/article/186751298

25 Development of a Formula for Scoring Competence of Bovine Embryos to Sustain Pregnancy
15 citations
Biochemistry and Biophysics Reports · 39, 101772
https://exaly.com/article/186756388

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2024 / continued

26 **Pressing Needs and Recent Advances to Enhance Production of Embryos in Vitro in Cattle**
10 citations
Animal Reproduction · 21, e20240036
https://exaly.com/article/188447685

27 **A Low Concentration of Choline Chloride Alters the Developmental Program of the Bovine Preimplantation Embryo**
7 citations
Reproduction and Fertility
https://exaly.com/article/193407750

2023

28 **Colony Stimulating Factor 2 Protects the Preimplantation Bovine Embryo From Heat Shock**
8 citations
Zygote · 31, 51-54
https://exaly.com/article/155813540

29 **Differences in Body Temperature Regulation During Heat Stress and Seasonal Depression in Milk Yield Between Holstein, Brown Swiss, and Crossbred Cows.**
20 citations
Journal of Dairy Science · 106, 3625-3632
https://exaly.com/article/159574333

30 **Machine-Learning Methods Applied to Integrated Transcriptomic Data From Bovine Blastocysts and Elongating Conceptuses to Identify Genes Predictive of Embryonic Competence**
31 citations
FASEB Journal · 37, e22809
https://exaly.com/article/160749824

31 **Disruption of CSF2RA in the Bovine Preimplantation Embryo Reduces Development and Affects Embryonic Gene Expression in Utero**
8 citations
Reproduction and Fertility
https://exaly.com/article/161938214

32 **Reflections on a Career as Graduate Mentor-From Baby Steps at Wisconsin to Today.**
2 citations
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https://exaly.com/article/163107761

33 **Perspective: Can Early Embryonic Losses Be Reduced in Lactating Dairy Cows?**
3 citations
Journal of Dairy Science · 106, 6593-6596
https://exaly.com/article/164465081

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2023 / continued

34 **Absence of a Molecular Circadian Clock in the Preimplantation Embryo Is a Conserved Characteristic in the Mammal**
4 citations
Reproduction · 166, 199-207
https://exaly.com/article/164788842

35 **Review: Some Challenges and Unrealized Opportunities Toward Widespread Use of the in Vitro-Produced Embryo in Cattle Production**
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https://exaly.com/article/167011547

36 **Presence of KREMEN Receptors for DKK1 in the Preimplantation Bovine Embryo**
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https://exaly.com/article/167083988

37 **Transcriptomic Profiling of the Bovine Endosalpinx and Endometrium to Identify Putative Embryokines**
5 citations
Physiological Genomics · 55, 557-564
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38 **Identification of Quantitative Trait Loci and Associated Candidate Genes for Pregnancy Success in Angus–Brahman Crossbred Heifers**
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39 **Heat Stress: Effects on Reproduction**
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40 **Progesterone-Dependent and Progesterone-Independent Modulation of Luminal Epithelial Transcription to Support Pregnancy in Cattle**
23 citations
Physiological Genomics · 54, 71-85
https://exaly.com/article/125379922

41 **RhoA/ROCK Signaling Antagonizes Bovine Trophoblast Stem Cell Self-Renewal and Regulates Preimplantation Embryo Size and Differentiation**
13 citations
Development (Cambridge)
https://exaly.com/article/134870063

42 **Effects of the SLICK1 Mutation in PRLR on Regulation of Core Body Temperature and Global Gene Expression in Liver in Cattle**
26 citations
Animal · 16, 100523
https://exaly.com/article/144810082

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2022 / continued

43 Actions of CSF2 and DKK1 on Bovine Embryo Development and Pregnancy Outcomes Are Affected by Composition of Embryo Culture Medium

25 citations

Scientific Reports · 12, 1-11

https://exaly.com/article/145344931

44 Effect of Addition of Ascorbate, Dithiothreitol or a Caspase-3 Inhibitor to Cryopreservation Medium on Post-Thaw Survival of Bovine Embryos Produced in Vitro

10 citations

Reproduction in Domestic Animals · 57, 1074-1081

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45 Identification of Large Offspring Syndrome During Pregnancy Through Ultrasonography and Maternal Blood Transcriptome Analyses

18 citations

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46 Actions of WNT Family Member 5A to Regulate Characteristics of Development of the Bovine Preimplantation Embryo†.

9 citations

Biology of Reproduction · 107, 928-944

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47 Actions of DKK1 on the Preimplantation Bovine Embryo to Affect Pregnancy Establishment, Placental Function, and Postnatal Phenotype†.

8 citations

Biology of Reproduction · 107, 945-955

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48 Effectiveness of the Australian Breeding Value for Heat Tolerance at Discriminating Responses of Lactating Holstein Cows to Heat Stress

20 citations

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49 Effects of the Bovine SLICK1 Mutation in PRLR on Sweat Gland Area, FOXA1 Abundance, and Global Gene Expression in Skin

8 citations

Journal of Dairy Science · 105, 9206-9215

https://exaly.com/article/154923491

50 Physiological Responses of Holstein Calves and Heifers Carrying the SLICK1 Allele to Heat Stress in California and Florida Dairy Farms

19 citations

Journal of Dairy Science · 105, 9216-9225

https://exaly.com/article/154948240

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51 **Heat Stress and Reproduction – A Foreword**
Theriogenology · 161, 271-272
https://exaly.com/article/77900749
1 citations

52 **Regulation of Gene Expression in the Bovine Blastocyst by Colony-Stimulating Factor 2 Is Disrupted by CRISPR/Cas9-Mediated Deletion of CSF2RA**
Biology of Reproduction · 104, 995-1007
https://exaly.com/article/79265673
11 citations

53 **An Improved Method for Specific-Target Preamplification PCR Analysis of Single Blastocysts Useful for Embryo Sexing and High-Throughput Gene Expression Analysis**
Journal of Dairy Science · 104, 3722-3735
https://exaly.com/article/79770316
6 citations

54 **Importance of WNT-Dependent Signaling for Derivation and Maintenance of Primed Pluripotent Bovine Embryonic Stem Cells†.**
Biology of Reproduction · 105, 52-63
https://exaly.com/article/80136050
27 citations

55 **Compromised Pregnancy Success Caused by Heat Stress**
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2 citations

56 **Programming of Postnatal Phenotype Caused by Exposure of Cultured Embryos From Brahman Cattle to Colony-Stimulating Factor 2 and Serum.**
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https://exaly.com/article/80999935
19 citations

57 **Choline Acts During Preimplantation Development of the Bovine Embryo to Program Postnatal Growth and Alter Muscle DNA Methylation**
FASEB Journal · 35, e21926
https://exaly.com/article/82262634
41 citations

58 **Atlas of Receptor Genes Expressed by the Bovine Morula and Corresponding Ligand-Related Genes Expressed by Uterine Endometrium**
Molecular Reproduction and Development · 88, 694-704
https://exaly.com/article/82438135
23 citations

59 **Regulation of NANOG and SOX2 Expression by Activin a and a Canonical WNT Agonist in Bovine Embryonic Stem Cells and Blastocysts**
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10 citations

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60 **Inheritance of the SLICK1 Allele of PRLR in Cattle** — 16 citations
Animal Genetics · 52, 887-890
https://exaly.com/article/91241867

61 **Incorporating Brahman Genetics in the Cow Herd to Alleviate Heat Stress** — 1 citations
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62 **Molecular Fingerprint of Female Bovine Embryos Produced in Vitro With High Competence to Establish and Maintain Pregnancy** — 31 citations
Biology of Reproduction · 102, 292-305
https://exaly.com/article/75159199

63 **Conditions of Embryo Culture From Days 5 to 7 of Development Alter the DNA Methylome of the Bovine Fetus at Day 86 of Gestation** — 12 citations
Journal of Assisted Reproduction and Genetics · 37, 417-426
https://exaly.com/article/75293687

64 **Actions of Putative Embryokines on Development of the Preimplantation Bovine Embryo to the Blastocyst Stage.** — 28 citations
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65 **Effects of Choline on the Phenotype of the Cultured Bovine Preimplantation Embryo** — 27 citations
Journal of Dairy Science · 103, 10784-10796
https://exaly.com/article/75490144

66 **Melatonin Slightly Alleviates the Effect of Heat Shock on Bovine Oocytes and Resulting Blastocysts** — 29 citations
Theriogenology · 158, 477-489
https://exaly.com/article/75564164

67 **Genes Associated With Survival of Female Bovine Blastocysts Produced in Vivo** — 20 citations
Cell and Tissue Research · 382, 665-678
https://exaly.com/article/75947126

68 **Determinants of Survival of the Bovine Blastocyst to Cryopreservation Stress: Treatment With Colony Stimulating Factor 2 During the Morula-to-Blastocyst Transition and Embryo Sex** — 12 citations
CABI Agriculture and Bioscience · 1, 1-10
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2020 / continued

69 The Incompletely Fulfilled Promise of Embryo Transfer in Cattle-Why Aren't Pregnancy Rates Greater and What Can We Do About It?

152 citations

Journal of Animal Science

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70 Effectiveness of Tunnel Ventilation as Dairy Cow Housing in Hot Climates: Rectal Temperatures During Heat Stress and Seasonal Variation in Milk Yield

20 citations

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71 Implications of Assisted Reproductive Technologies for Pregnancy Outcomes in Mammals

76 citations

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79 citations

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74 Dickkopf-Related Protein 1 Is a Progestomedin Acting on the Bovine Embryo During the Morula-to-Blastocyst Transition to Program Trophoblast Elongation

21 citations

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76 Genetic Parameters for Hair Characteristics and Core Body Temperature in a Multibreed Brahman–Angus herd1

39 citations

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77 **Aflatoxin Compromises Development of the Preimplantation Bovine Embryo Through Mechanisms Independent of Reactive Oxygen Production**
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78 **Sex Affects Immunolabeling for Histone 3 K27me3 in the Trophectoderm of the Bovine Blastocyst but Not Labeling for Histone 3 K18ac**
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79 **Effects of Intrauterine Infusion of Seminal Plasma at Artificial Insemination on Fertility of Lactating Holstein Cows**
49 citations
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80 **Effects of Melatonin on Production of Reactive Oxygen Species and Developmental Competence of Bovine Oocytes Exposed to Heat Shock and Oxidative Stress During in Vitro Maturation CORRIGENDUM**
2 citations
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81 **Production and Culture of the Bovine Embryo**
67 citations
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82 **Effects of Melatonin on Production of Reactive Oxygen Species and Developmental Competence of Bovine Oocytes Exposed to Heat Shock and Oxidative Stress During in Vitro Maturation**
50 citations
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83 **Effect of Addition of l-Carnitine to Media for Oocyte Maturation and Embryo Culture on Development and Cryotolerance of Bovine Embryos Produced in Vitro**
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84 **Physiological Profile of Undifferentiated Bovine Blastocyst-Derived Trophoblasts**
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85 **Embryo and Cow Factors Affecting Pregnancy per Embryo Transfer for Multiple-Service, Lactating Holstein Recipients**
21 citations
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86 Follicular Fluid Exosomes Act on the Bovine Oocyte to Improve Oocyte Competence to Support Development and Survival to Heat Shock
96 citations
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89 Changes in the Uterine Metabolome of the Cow During the First 7 Days After Estrus
43 citations
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90 Reproductive Physiology of the Heat-Stressed Dairy Cow: Implications for Fertility and Assisted Reproduction
113 citations
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91 Uterine Influences on Conceptus Development in Fertility-Classified Animals
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92 Role of Yes-Associated Protein 1, Angiomotin, and Mitogen-Activated Kinase Kinase 1/2 in Development of the Bovine Blastocyst.
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94 Economic and Genetic Performance of Various Combinations of in Vitro-Produced Embryo Transfers and Artificial Insemination in a Dairy Herd
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95 **Identification of Potential Embryokines in the Bovine Reproductive Tract**
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96 **Thermoregulatory Response of Brangus Heifers to Naturally Occurring Heat Exposure on Pasture.**
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97 **Effects of Sex on Response of the Bovine Preimplantation Embryo to Insulin-Like Growth Factor 1, Activin a, and WNT7A**
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98 **Convergent Evolution of Slick Coat in Cattle Through Truncation Mutations in the Prolactin Receptor**
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113 An Interview With Katrin Hinrichs.
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Journal of Animal Science · 95, 1164-1169
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115 Cows Exposed to Heat Stress During Fetal Life Exhibit Improved Thermal tolerance1
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