Harald Sieme

List of Publications by Year
in descending order

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85 papers	1,676 citations	331670 21 h-index	345221 36 g-index
89 all docs	89 docs citations	89 times ranked	1761 citing authors

#	Article	IF	Citations
1	Mode of action of cryoprotectants for sperm preservation. Animal Reproduction Science, 2016, 169, 2-5.	1.5	98
2	Sperm Membrane Behaviour during Cooling and Cryopreservation. Reproduction in Domestic Animals, 2015, 50, 20-26.	1.4	89
3	Osmotic Stress and Membrane Phase Changes During Freezing of Stallion Sperm: Mode of Action of Cryoprotective Agents1. Biology of Reproduction, 2013, 88, 68.	2.7	73
4	Membrane permeability parameters for freezing of stallion sperm as determined by Fourier transform infrared spectroscopy. Cryobiology, 2010, 61, 115-122.	0.7	69
5	Freeze-drying of mammalian cells using trehalose: preservation of DNA integrity. Scientific Reports, 2017, 7, 6198.	3.3	69
6	Application of Techniques for Sperm Selection in Fresh and Frozen-Thawed Stallion Semen. Reproduction in Domestic Animals, 2003, 38, 134-140.	1.4	67
7	Cryobiological determinants of frozen semen quality, with special reference to stallion. Animal Reproduction Science, 2008, 107, 276-292.	1.5	64
8	Optimal concentrations of cryoprotective agents for semen from stallions that are classified â€˜goodâ€™ or â€˜poorâ€™ for freezing. Animal Reproduction Science, 2011, 125, 112-118.	1.5	63
9	Freezing-induced uptake of trehalose into mammalian cells facilitates cryopreservation. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1400-1409.	2.6	59
10	Effect of semen collection practices on sperm characteristics before and after storage and on fertility of stallions. Theriogenology, 2004, 61, 769-784.	2.1	56
11	Liposomes for cryopreservation of bovine sperm. Theriogenology, 2011, 76, 1465-1472.	2.1	55
12	Effects of age, parity, and pregnancy abnormalities on foal birth weight and uterine blood flow in the mare. Theriogenology, 2015, 83, 721-729.	2.1	52
13	Membrane hydraulic permeability changes during cooling of mammalian cells. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 642-648.	2.6	43
14	Membrane phase behavior during cooling of stallion sperm and its correlation with freezability. Molecular Membrane Biology, 2012, 29, 95-106.	2.0	28
15	Storage stability of liposomes stored at elevated subzero temperatures in DMSO/sucrose mixtures. PLoS ONE, 2018, 13, e0199867.	2.5	27
16	Membrane permeabilization of phosphatidylcholine liposomes induced by cryopreservation and vitrification solutions. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 467-474.	2.6	24
17	Characterization of Equine Parvovirus in Thoroughbred Breeding Horses from Germany. Viruses, 2019, 11, 965.	3.3	24
18	Stallion Sperm Cryopreservation Using Various Permeating Agents: Interplay Between Concentration and Cooling Rate. Biopreservation and Biobanking, 2017, 15, 422-431.	1.0	23

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19	Factors Affecting the Membrane Permeability Barrier Function of Cells during Preservation Technologies. Langmuir, 2019, 35, 7520-7528.	3.5	22
20	Assessing equine sperm-membrane integrity. Andrologia, 2000, 32, 163-167.	2.1	21
21	Osmotic tolerance and intracellular ion concentrations of bovine sperm are affected by cryopreservation. Theriogenology, 2012, 78, 1312-1320.	2.1	21
22	Screening of whole genome sequences identified high-impact variants for stallion fertility. BMC Genomics, 2016, 17, 288.	2.8	21
23	Genome-Wide Association Study Identifies Phospholipase C zeta 1 (PLCz1) as a Stallion Fertility Locus in Hanoverian Warmblood Horses. PLoS ONE, 2014, 9, e109675.	2.5	21
24	Effects of cushioned centrifugation technique on sperm recovery and sperm quality in stallions with good and poor semen freezability. Animal Reproduction Science, 2005, 89, 294-7.	1.5	21
25	Iodixanol density gradient centrifugation for selecting stallion sperm for cold storage and cryopreservation. Animal Reproduction Science, 2012, 133, 184-190.	1.5	20
26	Influence of transrectal and transabdominal ultrasound examination on salivary cortisol, heart rate, and heart rate variability in mares. Theriogenology, 2015, 83, 749-756.	2.1	20
27	Characterization of the equine bloodâ€“testis barrier during tubular development in normal and cryptorchid stallions. Theriogenology, 2015, 84, 763-772.	2.1	19
28	Frequent occurrence of nonprimate hepacivirus infections in Thoroughbred breeding horses â€“ A cross-sectional study for the occurrence of infections and potential risk factors. Veterinary Microbiology, 2017, 203, 315-322.	1.9	19
29	Freezing-induced uptake of disaccharides for preservation of chromatin in freeze-dried stallion sperm during accelerated agingâ€. Biology of Reproduction, 2017, 97, 892-901.	2.7	19
30	Intrafollicular Oocyte Transfer (IFOT) of Abattoir-Derived and In Vitro-Matured Oocytes Results in Viable Blastocysts and Birth of Healthy Calves. Biology of Reproduction, 2015, 92, 150.	2.7	18
31	Cryopreservation of Semen from Domestic Livestock. Methods in Molecular Biology, 2015, 1257, 277-287.	0.9	18
32	Female major histocompatibility complex type affects male testosterone levels and sperm number in the horse (Equus caballus). Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150407.	2.6	17
33	Determinants of gestation length in Thoroughbred mares on German stud farms. Animal Reproduction Science, 2018, 191, 22-33.	1.5	17
34	Major histocompatibility complex-linked social signalling affects female fertility. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171824.	2.6	17
35	Combining endocytic and freezingâ€induced trehalose uptake for cryopreservation of mammalian cells. Biotechnology Progress, 2017, 33, 229-235.	2.6	16
36	Osmotic properties of stallion sperm subpopulations determined by simultaneous assessment of cell volume and viability. Theriogenology, 2011, 76, 386-391.	2.1	14

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37	Use of Density Centrifugation for Delayed Cryopreservation of Stallion Sperm: Perform Sperm Selection Directly after Collection or after Storage?. Reproduction in Domestic Animals, 2015, 50, 76-83.	1.4	14
38	Birth of healthy calves after intra-follicular transfer (IFOT) of slaughterhouse derived immature bovine oocytes. Theriogenology, 2017, 97, 41-49.	2.1	14
39	Stallion semen quality depends on major histocompatibility complex matching to teaser mare. Molecular Ecology, 2018, 27, 1025-1035.	3.9	14
40	Breed and stallion effects on frozen-thawed semen in warmblood, light and quarter horses. Theriogenology, 2020, 142, 8-14.	2.1	14
41	Spectroscopic monitoring of transport processes during loading of ovarian tissue with cryoprotective solutions. Scientific Reports, 2019, 9, 15577.	3.3	13
42	Increasing storage stability of freeze-dried plasma using trehalose. PLoS ONE, 2020, 15, e0234502.	2.5	13
43	Analysis of breed effects on semen traits in light horse, warmblood, and draught horse breeds. Theriogenology, 2016, 85, 1375-1381.	2.1	12
44	Hydrogen Bonding Interactions and Enthalpy Relaxation in Sugar/Protein Glasses. Journal of Pharmaceutical Sciences, 2017, 106, 761-769.	3.3	12
45	Testicular volumetry and prediction of daily sperm output in stallions by orchidometry and two- and three-dimensional sonography. Theriogenology, 2017, 104, 149-155.	2.1	12
46	MHC-correlated preferences in diestrous female horses (Equus caballus). Theriogenology, 2017, 89, 318-323.e1.	2.1	12
47	Tolerance of spermatozoa to hypotonic stress: role of membrane fluidity and correlation with cryosurvival. Reproduction, Fertility and Development, 2015, 27, 285.	0.4	11
48	Implication of <scp>FKBP</scp>6 for Male Fertility in Horses. Reproduction in Domestic Animals, 2015, 50, 195-199.	1.4	11
49	Fourier transform infrared spectroscopic analysis of sperm chromatin structure and <scp>DNA</scp> stability. Andrology, 2016, 4, 430-441.	3.5	11
50	Quality of seminal fluids varies with type of stimulus at ejaculation. Scientific Reports, 2017, 7, 44339.	3.3	10
51	Spectral fingerprinting to evaluate effects of storage conditions on biomolecular structure of filter-dried saliva samples and recovered DNA. Scientific Reports, 2020, 10, 21442.	3.3	10
52	Hanoverian F/Wâ€line contributes to segregation of Warmblood fragile foal syndrome type 1 variant PLOD1:c .2032G>A in Warmblood horses. Equine Veterinary Journal, 2021, 53, 51-59.	1.7	10
53	Effects of an anabolic steroid (Durateston) on testicular angiogenesis in peripubertal stallions. Theriogenology, 2015, 84, 323-332.	2.1	9
54	Genetic and environmental factors influencing gestation length and parturition conception interval in Hanoverian warmblood. Livestock Science, 2017, 199, 63-68.	1.6	9

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55	Induced sub-lethal oxidative damage affects osmotic tolerance and cryosurvival of spermatozoa. Reproduction, Fertility and Development, 2017, 29, 1739.	0.4	9
56	Diagnostic and Treatment Practices of Equine Endometritisâ€"A Questionnaire. Frontiers in Veterinary Science, 2020, 7, 547.	2.2	9
57	Spectroscopic assessment of oxidative damage in biomolecules and tissues. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 119003.	3.9	9
58	high-throughput droplet vitrification of stallion sperm using permeating cryoprotective agents. Cryobiology, 2021, 101, 67-77.	0.7	8
59	Genetic Parameters and Breeding Values for Semen Characteristics in Hanoverian Stallions. Reproduction in Domestic Animals, 2014, 49, 584-587.	1.4	7
60	Effect of Multiple Freezing of Stallion Semen on Sperm Quality and Fertility. Journal of Equine Veterinary Science, 2016, 40, 56-61.	0.9	7
61	Equine endometrial vascular pattern changes during the estrous cycle examined by Narrow Band Imaging hysteroscopy. Animal Reproduction Science, 2016, 166, 80-89.	1.5	7
62	Cryopreservation of stallion semen collected from good and poor freezers using a directional freezing device (Harmony CryoCare–Multi Thermal Gradient 516). Animal Reproduction Science, 2005, 89, 291-4.	1.5	7
63	Freezing-induced removal of water from phospholipid head groups in biomembranes. Biomedical Spectroscopy and Imaging, 2012, 1, 293-302.	1.2	6
64	Use of Fourier transform infrared spectroscopy to determine optimal cooling rates for cryopreservation of cells. Biomedical Spectroscopy and Imaging, 2013, 2, 83-90.	1.2	6
65	Relationships among stallion fertility and semen traits using estimated breeding values of German Warmblood stallions. Theriogenology, 2017, 89, 68-71.	2.1	6
66	Fourier transform infrared spectroscopy coupled with machine learning classification for identification of oxidative damage in freeze-dried heart valves. Scientific Reports, 2021, 11, 12299.	3.3	6
67	Cryopreservation of Semen from Domestic Livestock: Bovine, Equine, and Porcine Sperm. Methods in Molecular Biology, 2021, 2180, 365-377.	0.9	6
68	Increase of pregnancy rate after multiple periovulatory inseminations in mares. Tierarztliche Praxis Ausgabe G: Grosstiere - Nutztiere, 2019, 47, 18-24.	0.5	5
69	Transport processes in equine oocytes and ovarian tissue during loading with cryoprotective solutions. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129797.	2.4	5
70	Active immunisation against GnRH as treatment for unilateral granulosa theca cell tumour in mares. Equine Veterinary Journal, 2020, 53, 740-745.	1.7	4
71	Drying and temperature induced conformational changes of nucleic acids and stallion sperm chromatin in trehalose preservation formulations. Scientific Reports, 2021, 11, 14076.	3.3	4
72	Effects of ground semen collection on weight bearing on hindquarters, libido, and semen parameters in stallions. Theriogenology, 2015, 84, 687-692.e1.	2.1	3

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73	High interindividual and intraindividual variation of oxytocin secretion in estrous mares exposed to stallions, but no significant link to mate preferences. Theriogenology, 2016, 86, 2222-2229.	2.1	2
74	Identification of vessel degeneration and endometrosis in the equine endometrium, using narrow-band imaging hysteroscopy. Theriogenology, 2016, 86, 1445-1452.	2.1	2
75	Herbal yeast product, Equi-StrathÂ®, alters the antioxidant status of stallion semen. Animal Reproduction Science, 2019, 208, 106119.	1.5	2
76	Stored Stallion Sperm Quality Depends on Sperm Preparation Method in INRA82 or INRA96. Journal of Equine Veterinary Science, 2021, 98, 103367.	0.9	2
77	Cycle-specific female preferences for visual and non-visual cues in the horse (Equus caballus). PLoS ONE, 2018, 13, e0191845.	2.5	2
78	Loading equine oocytes with cryoprotective agents captured with a finite element method model. Scientific Reports, 2021, 11, 19812.	3.3	2
79	Alginate encapsulation of stallion sperm for increasing storage stability. Animal Reproduction Science, 2022, 238, 106945.	1.5	2
80	Embryo survival in the oviduct not significantly influenced by major histocompatibility complex social signaling in the horse. Scientific Reports, 2020, 10, 1056.	3.3	1
81	Sperm Cleanup and Centrifugation Processing for Cryopreservation. Methods in Molecular Biology, 2015, 1257, 343-352.	0.9	1
82	No increase in pregnancy rate of mares after preovulatory deep uterine horn application of misoprostol. Theriogenology, 2022, 184, 132-139.	2.1	1
83	Evaluation of an exÂvivo model of the blood-perfused equine uterus. Theriogenology, 2022, 184, 82-91.	2.1	1
84	Towards increasing stallion sperm longevity by storage at subzero temperatures in the absence of ice. Journal of Equine Veterinary Science, 2021, 108, 103802.	0.9	0
85	Assessment of anti-MÃ¼llerian hormone in maresâ€™ transitional period related to fertility in elderly mares. Theriogenology, 2022, 179, 97-102.	2.1	0