Kevin D Sinclair

List of Publications by Year
in descending order

54	3,825	236925 25	189892 50
papers	citations	h-index	g-index

55	55	55	4334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epigenetic change in IGF2R is associated with fetal overgrowth after sheep embryo culture. Nature Genetics, 2001, 27, 153-154.	21.4	751
2	DNA methylation, insulin resistance, and blood pressure in offspring determined by maternal periconceptional B vitamin and methionine status. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19351-19356.	7.1	707
3	The periconceptional period, reproduction and long-term health of offspring: the importance of one-carbon metabolism. Human Reproduction Update, 2013, 19, 640-655.	10.8	289
4	One-Carbon Metabolism: Linking Nutritional Biochemistry to Epigenetic Programming of Long-Term Development. Annual Review of Animal Biosciences, 2019, 7, 263-287.	7.4	197
5	Impact of endocrine-disrupting compounds (EDCs) on female reproductive health. Molecular and Cellular Endocrinology, 2012, 355, 231-239.	3.2	192
6	Paternal diet programs offspring health through sperm- and seminal plasma-specific pathways in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10064-10069.	7.1	185
7	Metabolomics: Approaches to assessing oocyte and embryo quality. Theriogenology, 2007, 68, S56-S62.	2.1	114
8	Paternal low protein diet affects adult offspring cardiovascular and metabolic function in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1444-H1452.	3.2	113
9	Assisted Reproductive Technology, Epigenetics, and Long-Term Health: A Developmental Time Bomb Still Ticking. Seminars in Reproductive Medicine, 2009, 27, 409-416.	1.1	102
10	Large offspring syndrome and other consequences of ruminant embryo culturein vitro: Relevance to blastocyst culture in human ART. Human Fertility, 2000, 3, 238-246.	1.7	86
11	Amino acid and fatty acid composition of follicular fluid as predictors of in-vitro embryo development. Reproductive BioMedicine Online, 2008, 16, 859-868.	2.4	79
12	Oocyte quality in lactating dairy cows fed on high levels of n-3 and n-6 fatty acids. Reproduction, 2009, 138, 771-781.	2.6	79
13	Modelling the developmental origins of health and disease in the early embryo. Theriogenology, 2007, 67, 43-53.	2.1	62
14	A Methyl-Deficient Diet Fed to Rat Dams during the Peri-Conception Period Programs Glucose Homeostasis in Adult Male but Not Female Offspring. Journal of Nutrition, 2011, 141, 95-100.	2.9	60
15	Human embryonic stem cell methyl cycle enzyme expression: modelling epigenetic programming in assisted reproduction?. Reproductive BioMedicine Online, 2005, 10, 755-766.	2.4	59
16	Parental diet, pregnancy outcomes and offspring health: metabolic determinants in developing oocytes and embryos. Reproduction, Fertility and Development, 2014, 26, 99.	0.4	58
17	In utero exposure to cigarette chemicals induces sex-specific disruption of one-carbon metabolism and DNA methylation in the human fetal liver. BMC Medicine, 2015, 13, 18.	5.5	58
18	Monoallelic expression of nine imprinted genes in the sheep embryo occurs after the blastocyst stage. Reproduction, 2008, 135, 29-40.	2.6	55

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19	Effects of omega-3 and -6 polyunsaturated fatty acids on ovine follicular cell steroidogenesis, embryo development and molecular markers of fatty acid metabolism. Reproduction, 2011, 141, 105-118.	2.6	54
20	One-carbon metabolism and epigenetic regulation of embryo development. Reproduction, Fertility and Development, 2015, 27, 667.	0.4	54
21	Preconception Folic Acid Use Modulates Estradiol and Follicular Responses to Ovarian Stimulation. Journal of Clinical Endocrinology and Metabolism, 2011, 96, E322-E329.	3.6	36
22	Polycystic Ovary Syndrome: A Brain Disorder Characterized by Eating Problems Originating during Puberty and Adolescence. International Journal of Molecular Sciences, 2020, 21, 8211.	4.1	32
23	Zygote donor nitrogen metabolism and in vitro embryo culture perturbs in utero development and IGF2R expression in ovine fetal tissues. Theriogenology, 2006, 66, 1901-1912.	2.1	31
24	The fetal ovary exhibits temporal sensitivity to a â€˜real-lifeâ€™ mixture of environmental chemicals. Scientific Reports, 2016, 6, 22279.	3.3	31
25	B-Vitamin and Homocysteine Status Determines Ovarian Response to Gonadotropin Treatment in Sheep1. Biology of Reproduction, 2009, 80, 743-752.	2.7	28
26	Assisted Reproductive Technologies and Pregnancy Outcomes: Mechanistic Insights from Animal Studies. Seminars in Reproductive Medicine, 2008, 26, 153-161.	1.1	27
27	Methotrexate induced differentiation in colon cancer cells is primarily due to purine deprivation. Journal of Cellular Biochemistry, 2006, 99, 146-155.	2.6	24
28	Karyomapping for simultaneous genomic evaluation and aneuploidy screening of preimplantation bovine embryos: The first live-born calves. Theriogenology, 2019, 125, 249-258.	2.1	22
29	A methyl-deficient diet fed to rats during the pre- and peri-conception periods of development modifies the hepatic proteome in the adult offspring. Genes and Nutrition, 2013, 8, 181-190.	2.5	20
30	Maternal proteinâ€energy malnutrition during early pregnancy in sheep impacts the fetal ornithine cycle to reduce fetal kidney microvascular development. FASEB Journal, 2014, 28, 4880-4892.	0.5	19
31	Human embryonic stem cells as a model for nutritional programming: An evaluation. Reproductive Toxicology, 2005, 20, 353-367.	2.9	18
32	Maternal One-Carbon Metabolism during the Periconceptional Period and Human Foetal Brain Growth: A Systematic Review. Genes, 2021, 12, 1634.	2.4	18
33	Epigenetic memory via concordant DNA methylation is inversely correlated to developmental potential of mammalian cells. PLoS Genetics, 2017, 13, e1007060.	3.5	17
34	Maternal obesity during pregnancy leads to derangements in one-carbon metabolism and the gut microbiota: implications for fetal development and offspring wellbeing. American Journal of Obstetrics and Gynecology, 2022, 227, 392-400.	1.3	17
35	The expression, regulation and function of secreted protein, acidic, cysteine-rich in the follicleâ€“luteal transition. Reproduction, 2012, 144, 361-372.	2.6	14
36	Added dietary cobalt or vitamin B12, or injecting vitamin B12 does not improve performance or indicators of ketosis in pre- and post-partum Holstein-Friesian dairy cows. Animal, 2019, 13, 750-759.	3.3	14

#	Article	IF	Citations
37	Preimplantation Genetic Testing for Aneuploidy Improves Live Birth Rates with In Vitro Produced Bovine Embryos: A Blind Retrospective Study. Cells, 2021, 10, 2284.	4.1	14
38	Interspecific Variation in One-Carbon Metabolism within the Ovarian Follicle, Oocyte, and Preimplantation Embryo: Consequences for Epigenetic Programming of DNA Methylation. International Journal of Molecular Sciences, 2021, 22, 1838.	4.1	13
39	Impact of diâ€ethylhexylphthalate exposure on metabolic programming in P19 ECCâ€derived cardiomyocytes. Journal of Applied Toxicology, 2015, 35, 861-869.	2.8	12
40	Physiological responses of cultured bovine granulosa cells to elevated temperatures under low and high oxygen in the presence of different concentrations of melatonin. Theriogenology, 2018, 105, 107-114.	2.1	11
41	First Trimester Maternal Homocysteine and Embryonic and Fetal Growth: The Rotterdam Periconception Cohort. Nutrients, 2022, 14, 1129.	4.1	9
42	A mathematical model of the bovine oestrous cycle: Simulating outcomes of dietary and pharmacological interventions. Journal of Theoretical Biology, 2012, 313, 115-126.	1.7	8
43	Comprehensive and quantitative profiling of B vitamins and related compounds in the mammalian liver. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1136, 121884.	2.3	7
44	Molecular determinants of a competent bovine corpus luteum: first- vs final-wave dominant follicles. Reproduction, 2016, 151, 563-575.	2.6	6
45	Ovine fetal testis stage-specific sensitivity to environmental chemical mixtures. Reproduction, 2022, 163, 119-131.	2.6	6
46	Developmental exposure to real-life environmental chemical mixture programs a testicular dysgenesis syndrome-like phenotype in prepubertal lambs. Environmental Toxicology and Pharmacology, 2022, 94, 103913.	4.0	6
47	Comment on â€œEffects of Arsenite during Fetal Development on Energy Metabolism and Susceptibility to Diet-Induced Fatty Liver Diseases in Male Miceâ€•and â€œMechanisms Underlying Latent Disease Risk Associated with Early-Life Arsenic Exposure: Current Trends and Scientific Gapsâ€• Environmental Health Perspectives, 2016, 124, A99.	6.0	4
48	Radiographic assessment of the skeletons of Dolly and other clones finds no abnormal osteoarthritis. Scientific Reports, 2017, 7, 15685.	3.3	3
49	When maternal periconceptional diet affects neurological development, itâ€™s time to think. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7852-7854.	7.1	2
50	Dolly at 25â€¦ is she â€˜â€¦ still goinâ€™ strong?â€™. Reproduction, 2021, 162, E1-E3.	2.6	2
51	Risks associated with assisted reproduction: insights from animal studies. , 2005, , 155-168.		0
52	Early Embryo Environment and Developmental Potential. , 2009, , 65-77.		0
53	Determinants of egg and embryo quality: long-term effects of maternal diet and assisted reproduction. , 0, , 167-179.		0
54	Can we make a placenta in the Petri dish?. Reproduction, 2014, 147, E3.	2.6	0