

Kevin D Sinclair

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47 papers	2,976 citations	23 h-index	54 g-index
55 ext. papers	3,440 ext. citations	5.3 avg, IF	4.99 L-index

#	Paper	IF	Citations
47	Epigenetic change in IGF2R is associated with fetal overgrowth after sheep embryo culture. <i>Nature Genetics</i> , 2001 , 27, 153-4	36.3	665
46	DNA methylation, insulin resistance, and blood pressure in offspring determined by maternal periconceptional B vitamin and methionine status. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19351-6	11.5	611
45	The periconceptional period, reproduction and long-term health of offspring: the importance of one-carbon metabolism. <i>Human Reproduction Update</i> , 2013 , 19, 640-55	15.8	211
44	Impact of endocrine-disrupting compounds (EDCs) on female reproductive health. <i>Molecular and Cellular Endocrinology</i> , 2012 , 355, 231-9	4.4	166
43	Paternal diet programs offspring health through sperm- and seminal plasma-specific pathways in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10064-10069	11.5	109
42	Metabolomics: approaches to assessing oocyte and embryo quality. <i>Theriogenology</i> , 2007 , 68 Suppl 1, S56-62	2.8	93
41	Assisted reproductive technology, epigenetics, and long-term health: a developmental time bomb still ticking. <i>Seminars in Reproductive Medicine</i> , 2009 , 27, 409-16	1.4	92
40	Paternal low protein diet affects adult offspring cardiovascular and metabolic function in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1444-52	5.2	90
39	One-Carbon Metabolism: Linking Nutritional Biochemistry to Epigenetic Programming of Long-Term Development. <i>Annual Review of Animal Biosciences</i> , 2019 , 7, 263-287	13.7	77
38	Large offspring syndrome and other consequences of ruminant embryo culture in vitro: relevance to blastocyst culture in human ART. <i>Human Fertility</i> , 2000 , 3, 238-246	1.9	75
37	Oocyte quality in lactating dairy cows fed on high levels of n-3 and n-6 fatty acids. <i>Reproduction</i> , 2009 , 138, 771-81	3.8	62
36	Amino acid and fatty acid composition of follicular fluid as predictors of in-vitro embryo development. <i>Reproductive BioMedicine Online</i> , 2008 , 16, 859-68	4	60
35	Modelling the developmental origins of health and disease in the early embryo. <i>Theriogenology</i> , 2007 , 67, 43-53	2.8	54
34	Monoallelic expression of nine imprinted genes in the sheep embryo occurs after the blastocyst stage. <i>Reproduction</i> , 2008 , 135, 29-40	3.8	52
33	A methyl-deficient diet fed to rat dams during the peri-conception period programs glucose homeostasis in adult male but not female offspring. <i>Journal of Nutrition</i> , 2011 , 141, 95-100	4.1	51
32	Human embryonic stem cell methyl cycle enzyme expression: modelling epigenetic programming in assisted reproduction?. <i>Reproductive BioMedicine Online</i> , 2005 , 10, 755-66	4	49
31	In utero exposure to cigarette chemicals induces sex-specific disruption of one-carbon metabolism and DNA methylation in the human fetal liver. <i>BMC Medicine</i> , 2015 , 13, 18	11.4	48

30	Parental diet, pregnancy outcomes and offspring health: metabolic determinants in developing oocytes and embryos. <i>Reproduction, Fertility and Development</i> , 2013 , 26, 99-114	1.8	48
29	Effects of omega-3 and -6 polyunsaturated fatty acids on ovine follicular cell steroidogenesis, embryo development and molecular markers of fatty acid metabolism. <i>Reproduction</i> , 2011 , 141, 105-18	3.8	42
28	One-carbon metabolism and epigenetic regulation of embryo development. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 667-76	1.8	37
27	Preconception folic acid use modulates estradiol and follicular responses to ovarian stimulation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, E322-9	5.6	29
26	Zygote donor nitrogen metabolism and in vitro embryo culture perturbs in utero development and IGF2R expression in ovine fetal tissues. <i>Theriogenology</i> , 2006 , 66, 1901-12	2.8	27
25	B-vitamin and homocysteine status determines ovarian response to gonadotropin treatment in sheep. <i>Biology of Reproduction</i> , 2009 , 80, 743-52	3.9	24
24	Assisted reproductive technologies and pregnancy outcomes: mechanistic insights from animal studies. <i>Seminars in Reproductive Medicine</i> , 2008 , 26, 153-61	1.4	23
23	Methotrexate induced differentiation in colon cancer cells is primarily due to purine deprivation. <i>Journal of Cellular Biochemistry</i> , 2006 , 99, 146-55	4.7	20
22	Maternal protein-energy malnutrition during early pregnancy in sheep impacts the fetal ornithine cycle to reduce fetal kidney microvascular development. <i>FASEB Journal</i> , 2014 , 28, 4880-92	0.9	19
21	The fetal ovary exhibits temporal sensitivity to a real-life mixture of environmental chemicals. <i>Scientific Reports</i> , 2016 , 6, 22279	4.9	18
20	A methyl-deficient diet fed to rats during the pre- and peri-conception periods of development modifies the hepatic proteome in the adult offspring. <i>Genes and Nutrition</i> , 2013 , 8, 181-90	4.3	16
19	Human embryonic stem cells as a model for nutritional programming: an evaluation. <i>Reproductive Toxicology</i> , 2005 , 20, 353-67	3.4	15
18	Epigenetic memory via concordant DNA methylation is inversely correlated to developmental potential of mammalian cells. <i>PLoS Genetics</i> , 2017 , 13, e1007060	6	12
17	Polycystic Ovary Syndrome: A Brain Disorder Characterized by Eating Problems Originating during Puberty and Adolescence. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
16	Impact of di-ethylhexylphthalate exposure on metabolic programming in P19 ECC-derived cardiomyocytes. <i>Journal of Applied Toxicology</i> , 2015 , 35, 861-9	4.1	10
15	The expression, regulation and function of secreted protein, acidic, cysteine-rich in the follicle-luteal transition. <i>Reproduction</i> , 2012 , 144, 361-72	3.8	9
14	Karyomapping for simultaneous genomic evaluation and aneuploidy screening of preimplantation bovine embryos: The first live-born calves. <i>Theriogenology</i> , 2019 , 125, 249-258	2.8	8
13	Physiological responses of cultured bovine granulosa cells to elevated temperatures under low and high oxygen in the presence of different concentrations of melatonin. <i>Theriogenology</i> , 2018 , 105, 107-114	2.8	7

12	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. <i>Animal</i> , 2019 , 13, 750-759	3.1	7
11	A mathematical model of the bovine oestrous cycle: simulating outcomes of dietary and pharmacological interventions. <i>Journal of Theoretical Biology</i> , 2012 , 313, 115-26	2.3	6
10	Comprehensive and quantitative profiling of B vitamins and related compounds in the mammalian liver. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1136, 121884	3.2	5
9	Interspecific Variation in One-Carbon Metabolism within the Ovarian Follicle, Oocyte, and Preimplantation Embryo: Consequences for Epigenetic Programming of DNA Methylation. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
8	Maternal One-Carbon Metabolism during the Periconceptional Period and Human Foetal Brain Growth: A Systematic Review. <i>Genes</i> , 2021 , 12,	4.2	3
7	Molecular determinants of a competent bovine corpus luteum: first- vs final-wave dominant follicles. <i>Reproduction</i> , 2016 , 151, 563-75	3.8	3
6	Comment on "Effects of Arsenite during Fetal Development on Energy Metabolism and Susceptibility to Diet-Induced Fatty Liver Diseases in Male Mice" and "Mechanisms Underlying Latent Disease Risk Associated with Early-Life Arsenic Exposure: Current Trends and Scientific Gaps". <i>Environmental Health Perspectives</i> , 2016 , 124, A99	8.4	2
5	When maternal periconceptional diet affects neurological development, it's time to think. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7852-7854	11.5	2
4	Radiographic assessment of the skeletons of Dolly and other clones finds no abnormal osteoarthritis. <i>Scientific Reports</i> , 2017 , 7, 15685	4.9	1
3	Determinants of egg and embryo quality: long-term effects of maternal diet and assisted reproduction167-179		
2	Early Embryo Environment and Developmental Potential 2009 , 65-77		
1	Risks associated with assisted reproduction: insights from animal studies 2005 , 155-168		