Gary D Smith

List of Publications by Year
in descending order

55 papers	3,328 citations	212478 28 h-index	190340 53 g-index
55 all docs	55 docs citations	55 times ranked	4283 citing authors

#	Article	IF	Citations
1	The Future of IVF: The New Normal in Human Reproduction. Reproductive Sciences, 2022, 29, 849-856.	1.1	24
2	Non-invasive oocyte quality assessment. Biology of Reproduction, 2022, 106, 274-290.	1.2	9
3	Mouse oocyte vitrification with and without dimethyl sulfoxide: influence on cryo-survival, development, and maternal imprinted gene expression. Journal of Assisted Reproduction and Genetics, 2021, 38, 2129-2138.	1.2	6
4	Microfluidic Systems for Isolation of Spermatozoa from Testicular Specimens of Non-Obstructive Azoospermic Men: Does/Can It Improve Sperm Yield?. Journal of Clinical Medicine, 2021, 10, 3667.	1.0	5
5	Lipidomic markers of sperm cryotolerance in cattle. Scientific Reports, 2020, 10, 20192.	1.6	17
6	Developmental potential of aneuploid human embryos cultured beyond implantation. Nature Communications, 2020, 11, 3987.	5.8	66
7	Histone Acetyltransferase MOF Blocks Acquisition of Quiescence in Ground-State ESCs through Activating Fatty Acid Oxidation. Cell Stem Cell, 2020, 27, 441-458.e10.	5.2	37
8	Alternative polyadenylation coordinates embryonic development, sexual dimorphism and longitudinal growth in Xenopus tropicalis. Cellular and Molecular Life Sciences, 2019, 76, 2185-2198.	2.4	16
9	Cryopreservation and microfluidics: a focus on the oocyte. Reproduction, Fertility and Development, 2019, 31, 93.	0.1	5
10	Targeted Reactivation of FMR1 Transcription in Fragile X Syndrome Embryonic Stem Cells. Frontiers in Molecular Neuroscience, 2018, 11, 282.	1.4	41
11	Application of microfluidic technologies to human assisted reproduction. Molecular Human Reproduction, 2017, 23, gaw076.	1.3	66
12	Obesity-Induced Infertility in Male Mice Is Associated With Disruption of Crisp4 Expression and Sperm Fertilization Capacity. Endocrinology, 2017, 158, 2930-2943.	1.4	26
13	Deficient cMyBP-C protein expression during cardiomyocyte differentiation underlies human hypertrophic cardiomyopathy cellular phenotypes in disease specific human ES cell derived cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2016, 99, 197-206.	0.9	52
14	Live-cell quantification and comparison of mammalian oocyte cytosolic lipid content between species, during development, and in relation to body composition using nonlinear vibrational microscopy. Analyst, The, 2016, 141, 4694-4706.	1.7	27
15	Optimizing the culture environment and embryo manipulation to help maintain embryo developmental potential. Fertility and Sterility, 2016, 105, 571-587.	0.5	82
16	Optimizing human semen cryopreservation by reducing test vial volume and repetitive test vial sampling. Fertility and Sterility, 2015, 103, 640-646.e1.	0.5	6
17	Recent microfluidic devices for studying gamete and embryo biomechanics. Journal of Biomechanics, 2015, 48, 1671-1678.	0.9	24
18	Loss of Glycogen Synthase Kinase 3 Isoforms During Murine Oocyte Growth Induces Offspring Cardiac Dysfunction1. Biology of Reproduction, 2015, 92, 127.	1.2	11

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19	Advances in Embryo Culture Systems. Seminars in Reproductive Medicine, 2012, 30, 214-221.	0.5	10
20	Rethinking In Vitro Embryo Culture: New Developments in Culture Platforms and Potential to Improve Assisted Reproductive Technologies1. Biology of Reproduction, 2012, 86, 62.	1.2	78
21	Real time culture and analysis of embryo metabolism using a microfluidic device with deformation based actuation. Lab on A Chip, 2012, 12, 2240.	3.1	57
22	Labâ€onâ€aâ€chip biophotonics: its application to assisted reproductive technologies. Journal of Biophotonics, 2012, 5, 650-660.	1.1	10
23	Theoretical and experimental basis of oocyte vitrification. Reproductive BioMedicine Online, 2011, 23, 298-306.	1.1	35
24	Aurora kinase-A regulates microtubule organizing center (MTOC) localization, chromosome dynamics, and histone-H3 phosphorylation in mouse oocytes. Molecular Reproduction and Development, 2011, 78, 80-90.	1.0	43
25	Sperm DNA damage in male infertility: etiologies, assays, and outcomes. Journal of Assisted Reproduction and Genetics, 2010, 27, 3-12.	1.2	214
26	Synthetic polymer coatings for long-term growth of human embryonic stem cells. Nature Biotechnology, 2010, 28, 581-583.	9.4	327
27	Prospective randomized comparison of human oocyte cryopreservation with slow-rate freezing or vitrification. Fertility and Sterility, 2010, 94, 2088-2095.	0.5	246
28	Temporal Decreases in Sperm Motility: Which Patients Should Have Motility Checked at Both 1 and 2 Hours After Collection?. Journal of Andrology, 2008, 29, 558-563.	2.0	7
29	Influence of vitrification on mouse metaphase II oocyte spindle dynamics and chromatin alignment. Fertility and Sterility, 2008, 90, 1396-1404.	0.5	62
30	Regulation of spindle and chromatin dynamics during early and late stages of oocyte maturation by aurora kinases. Molecular Human Reproduction, 2008, 14, 291-299.	1.3	68
31	Oocyte cryopreservation in a woman with mosaic Turner syndrome: a case report. Journal of reproductive medicine, The, 2008, 53, 223-6.	0.2	16
32	Insulin Signaling in Mouse Oocytes1. Biology of Reproduction, 2007, 77, 872-879.	1.2	70
33	Proper Chromatin Condensation and Maintenance of Histone H3 Phosphorylation During Mouse Oocyte Meiosis Requires Protein Phosphatase Activity1. Biology of Reproduction, 2007, 76, 628-638.	1.2	45
34	Characterization and Resolution of Evaporation-Mediated Osmolality Shifts That Constrain Microfluidic Cell Culture in Poly(dimethylsiloxane) Devices. Analytical Chemistry, 2007, 79, 1126-1134.	3.2	214
35	Glycogen synthase kinase-3 regulation of chromatin segregation and cytokinesis in mouse preimplantation embryos. Molecular Reproduction and Development, 2007, 74, 178-188.	1.0	32
36	Distribution of co-activators CBP and p300 during mouse oocyte and embryo development. Molecular Reproduction and Development, 2006, 73, 885-894.	1.0	20

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37	IVF within microfluidic channels requires lower total numbers and lower concentrations of sperm. Human Reproduction, 2006, 21, 477-483.	0.4	88
38	Oocyte and Embryo Cryopreservation. , 2006, , 331-364.		1
39	Andrology: Pursuit of the Scientific Trinity. Journal of Andrology, 2005, 26, 304-305.	2.0	0
40	Spermatogonial Stem Cell Isolation, Storage, and Transplantation. Journal of Andrology, 2005, 26, 442-450.	2.0	19
41	Endogenous regulators of protein phosphatase-1 during mouse oocyte development and meiosis. Reproduction, 2004, 128, 493-502.	1.1	21
42	Developmental consequences of cryopreservation of mammalian oocytes and embryos. Reproductive BioMedicine Online, 2004, 9, 171-178.	1.1	73
43	Glycogen synthase kinase-3 regulates mouse oocyte homologue segregation. Molecular Reproduction and Development, 2003, 64, 96-105.	1.0	28
44	Specific inhibition of mouse oocyte nuclear protein phosphatase-1 stimulates germinal vesicle breakdown. Molecular Reproduction and Development, 2003, 65, 96-103.	1.0	26
45	Isolation of motile spermatozoa from semen samples using microfluidics. Reproductive BioMedicine Online, 2003, 7, 75-81.	1.1	155
46	Passively Driven Integrated Microfluidic System for Separation of Motile Sperm. Analytical Chemistry, 2003, 75, 1671-1675.	3.2	314
47	Expression and Intracellular Localization of Protein Phosphatases 2A and 2B, Protein Kinase A, A-Kinase Anchoring Protein (AKAP79), and Binding of the Regulatory (RII) Subunit of Protein Kinase A to AKAP79 in Human Myometrium. Journal of the Society for Gynecologic Investigation, 2003, 10, 428-437.	1.9	3
48	Regulation of Spindle Formation by Active Mitogen-Activated Protein Kinase and Protein Phosphatase 2A During Mouse Oocyte Meiosis1. Biology of Reproduction, 2002, 66, 29-37.	1.2	45
49	Processed total motile sperm count correlates with pregnancy outcome after intrauterine insemination. Urology, 2002, 60, 497-501.	0.5	105
50	Divergence in Murine Myometrium Spontaneous and Oxytocin-Stimulated Contractile Responses to Serine/Threonine Protein Phosphatase-1 Inhibition1. Biology of Reproduction, 2000, 63, 781-788.	1.2	6
51	Identification of seminiferous tubule aberrations and a low incidence of testicular microliths associated with the development of azoospermia. Fertility and Sterility, 1999, 72, 467-471.	0.5	12
52	Characterization of Protein Phosphatases in Mouse Oocytes. Developmental Biology, 1998, 204, 537-549.	0.9	30
53	Transient Exposure of Rhesus Macaque Oocytes to Calyculin-A and Okadaic Acid Stimulates Germinal Vesicle Breakdown Permitting Subsequent Development and Fertilization1. Biology of Reproduction, 1998, 58, 880-886.	1.2	16
54	Sperm Motility Development in the Epididymis is Associated with Decreased Glycogen Synthase Kinase-3 and Protein Phosphatase 1 Activity1. Biology of Reproduction, 1996, 54, 709-718.	1.2	181

#	ARTICLE	IF	CITATIONS
55	Primate Sperm Contain Protein Phosphatase 1, a Biochemical Mediator of Motility1. Biology of Reproduction, 1996, 54, 719-727.	1.2	131