Kyle E Orwig

List of Publications by Year
in descending order

125 papers	8,529 citations	46918 47 h-index	46693 89 g-index
157 all docs	157 docs citations	157 times ranked	5666 citing authors

#	Article	IF	Citations
1	Genetic resiliency associated with dominant lethal TPM1 mutation causing atrial septal defect with high heritability. Cell Reports Medicine, 2022, 3, 100501.	3.3	0
2	Induced pluripotent stem cell line from a mouse model of human azoospermia with a frameshift mutation Tex11_1260Ins(TT). Stem Cell Research, 2022, 60, 102728.	0.3	1
3	Male fertility preservation and restoration strategies for patients undergoing gonadotoxic therapies. Biology of Reproduction, 2022, 107, 382-405.	1.2	21
4	Single-cell analysis of human testis aging and correlation with elevated body mass index. Developmental Cell, 2022, 57, 1160-1176.e5.	3.1	47
5	A View from the past into our collective future: the oncofertility consortium vision statement. Journal of Assisted Reproduction and Genetics, 2021, 38, 3-15.	1.2	25
6	Spermatogonial Stem Cell Numbers Are Reduced by Transient Inhibition ofÂGDNF Signaling but Restored by Self-Renewing Replication when SignalingÂResumes. Stem Cell Reports, 2021, 16, 597-609.	2.3	6
7	Unique metabolic phenotype and its transition during maturation of juvenile male germ cells. FASEB Journal, 2021, 35, e21513.	0.2	19
8	Cryopreservation of Ovarian Tissue for Pediatric Fertility. Biopreservation and Biobanking, 2021, 19, 130-135.	0.5	15
9	Variants in GCNA, X-linked germ-cell genome integrity gene, identified in men with primary spermatogenic failure. Human Genetics, 2021, 140, 1169-1182.	1.8	27
10	Postpubertal spermatogonial stem cell transplantation restores functional sperm production in rhesus monkeys irradiated before and after puberty. Andrology, 2021, 9, 1603-1616.	1.9	18
11	TCF21+ mesenchymal cells contribute to testis somatic cell development, homeostasis, and regeneration in mice. Nature Communications, 2021, 12, 3876.	5.8	27
12	Recent advances: fertility preservation and fertility restoration options for males and females. Faculty Reviews, 2021, 10, 55.	1.7	5
13	Blastocyst development after fertilization with inÂvitro spermatids derived from nonhuman primate embryonic stem cells. F&S Science, 2021, 2, 365-375.	0.5	6
14	Expression and functional analyses of ephrin type-A receptor 2 in mouse spermatogonial stem cellsâ€. Biology of Reproduction, 2020, 102, 220-232.	1.2	6
15	Transcriptome profiling reveals signaling conditions dictating human spermatogonia fate in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17832-17841.	3.3	46
16	Leptin promotes proliferation of neonatal mouse stem/progenitor spermatogonia. Journal of Assisted Reproduction and Genetics, 2020, 37, 2825-2838.	1.2	10
17	SINGLE CELL TRANSCRIPTOME ANALYSIS IDENTIFIES PUTATIVE CELL SURFACE MARKERS OF HUMAN SPERMATOGONIAL STEM CELLS. Fertility and Sterility, 2020, 114, e100-e101.	0.5	0
18	Spermatogonial Stem Cell Culture in Oncofertility. Urologic Clinics of North America, 2020, 47, 227-244.	0.8	19

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19	Ovarian tissue cryopreservation as standard of care: what does this mean for pediatric populations?. Journal of Assisted Reproduction and Genetics, 2020, 37, 1323-1326.	1.2	40
20	Single-Cell RNA Sequencing of Human, Macaque, and Mouse Testes Uncovers Conserved and Divergent Features of Mammalian Spermatogenesis. Developmental Cell, 2020, 54, 529-547.e12.	3.1	150
21	Standardizing Risk Assessment for Treatment-Related Gonadal Insufficiency and Infertility in Childhood Adolescent and Young Adult Cancer: The Pediatric Initiative Network Risk Stratification System. Journal of Adolescent and Young Adult Oncology, 2020, 9, 662-666.	0.7	77
22	Progress in translational reproductive science: testicular tissue transplantation and inÂvitro spermatogenesis. Fertility and Sterility, 2020, 113, 500-509.	0.5	26
23	Restoration of functional sperm production in irradiated pubertal rhesus monkeys by spermatogonial stem cell transplantation. Andrology, 2020, 8, 1428-1441.	1.9	22
24	Male Fertility Preservation: Current Options and Advances in Research. , 2019, , 209-227.		2
25	Fertility Preservation and Restoration in Pediatric Males. , 2019, , 385-394.		3
26	Autologous grafting of cryopreserved prepubertal rhesus testis produces sperm and offspring. Science, 2019, 363, 1314-1319.	6.0	217
27	Formation of organotypic testicular organoids in microwell cultureâ€. Biology of Reproduction, 2019, 100, 1648-1660.	1.2	74
28	Testicular wedge biopsy for fertility preservation in children at significant risk for azoospermia after gonadotoxic therapy. Journal of Pediatric Surgery, 2019, 54, 1901-1905.	0.8	17
29	Fertility preservation for a 13-year-old male with relapsed osteosarcoma. Journal of Pediatric Surgery Case Reports, 2019, 43, 28-31.	0.1	1
30	Access and Barriers to Fertility Preservation for Women Prior to Gonadotoxic or Sterilizing Treatment [39H]. Obstetrics and Gynecology, 2019, 133, 95S-95S.	1.2	0
31	Single-cell RNA sequencing reveals novel markers of stem/progenitor spermatogonia in higher primates. Fertility and Sterility, 2019, 112, e373.	0.5	0
32	Donor Spermatogenesis in De Novo Formed Seminiferous Tubules From Transplanted Testicular Cells in Rhesus Monkey Testis. Obstetrical and Gynecological Survey, 2019, 74, 159-160.	0.2	0
33	Human Testis Extracellular Matrix Enhances Human Spermatogonial Stem Cell Survival <i>In Vitro</i>. Tissue Engineering - Part A, 2019, 25, 663-676.	1.6	35
34	Purification of GFRÎ±1+ and GFRÎ±1â€" Spermatogonial Stem Cells Reveals aÂNiche-Dependent Mechanism for Fate Determination. Stem Cell Reports, 2018, 10, 553-567.	2.3	54
35	Editorial. Stem Cell Research, 2018, 29, 179.	0.3	0
36	A PAX5â€"OCT4â€"PRDM1 developmental switch specifies human primordial germ cells. Nature Cell Biology, 2018, 20, 655-665.	4.6	33

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37	Spermatogonial stem cells and spermatogenesis in mice, monkeys and men. Stem Cell Research, 2018, 29, 207-214.	0.3	224
38	The National Physicians Cooperative: transforming fertility management in the cancer setting and beyond. Future Oncology, 2018, 14, 3059-3072.	1.1	30
39	Differentiation of primate primordial germ cell-like cells following transplantation into the adult gonadal niche. Nature Communications, 2018, 9, 5339.	5.8	47
40	Donor spermatogenesis in de novo formed seminiferous tubules from transplanted testicular cells in rhesus monkey testis. Human Reproduction, 2018, 33, 2249-2255.	0.4	17
41	Spermatogonia. , 2018, , 24-35.		0
42	Male Fertility Preservation: Current Options and Advances in Research. , 2017, , 119-142.		3
43	Fertility Preservation for Pediatric Patients: Current State and Future Possibilities. Journal of Urology, 2017, 198, 186-194.	0.2	75
44	The production of glial cell line-derived neurotrophic factor by human sertoli cells is substantially reduced in sertoli cell-only testes. Human Reproduction, 2017, 32, 1108-1117.	0.4	25
45	An integration-free, virus-free rhesus macaque induced pluripotent stem cell line (riPSC90) from embryonic fibroblasts. Stem Cell Research, 2017, 21, 5-8.	0.3	8
46	Bioimaterials: â€œTissue Papersâ€•from Organâ€Specific Decellularized Extracellular Matrices (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock	7.8	1
47	â€œTissue Papersâ€•from Organâ€Specific Decellularized Extracellular Matrices. Advanced Functional Materials, 2017, 27, 1700992.	7.8	104
48	Fertility Preservation in Cancer Patients. , 2017, , 315-341.		1
49	Primate Primordial Germ Cells Acquire Transplantation Potential by Carnegie Stage 23. Stem Cell Reports, 2017, 9, 329-341.	2.3	18
50	DDX4-EGFP transgenic rat model for the study of germline development and spermatogenesis â€. Biology of Reproduction, 2017, 96, 707-719.	1.2	12
51	An integration-free, virus-free rhesus macaque induced pluripotent stem cell line (riPSC89) from embryonic fibroblasts. Stem Cell Research, 2016, 17, 444-447.	0.3	10
52	The Homeobox Transcription Factor RHOX10 Drives Mouse Spermatogonial Stem Cell Establishment. Cell Reports, 2016, 17, 149-164.	2.9	50
53	Experimental methods to preserve male fertility and treat male factor infertility. Fertility and Sterility, 2016, 105, 256-266.	0.5	108
54	Mouse Spermatogenesis Requires Classical and Nonclassical Testosterone Signaling1. Biology of Reproduction, 2016, 94, 11.	1.2	74

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55	Over Expression of NANOS3 and DAZL in Human Embryonic Stem Cells. PLoS ONE, 2016, 11, e0165268.	1.1	22
56	DDX3Y gene rescue of a Y chromosome AZFa deletion restores germ cell formation and transcriptional programs. Scientific Reports, 2015, 5, 15041.	1.6	63
57	In Vitro Fertilization (IVF) Intracytoplasmic Sperm Injection (ICSI) Using Sperm Exposed to Cyclophosphamide Reduces Preimplantation Embryo Development and Live Birth after Embryo Transfer (ET). Fertility and Sterility, 2015, 103, e4-e5.	0.5	2
58	Stem Cell Therapies for Male Infertility: Where Are We Now and Where Are We Going?. , 2015, , 17-39.		7
59	High telomerase is a hallmark of undifferentiated spermatogonia and is required for maintenance of male germline stem cells. Genes and Development, 2015, 29, 2420-2434.	2.7	56
60	Spermatogonial Stem Cells and Spermatogenesis. , 2015, , 595-635.		21
61	Fate of induced pluripotent stem cells following transplantation to murine seminiferous tubules. Human Molecular Genetics, 2014, 23, 3071-3084.	1.4	56
62	The Transition from Stem Cell to Progenitor Spermatogonia and Male Fertility Requires the SHP2 Protein Tyrosine Phosphatase. Stem Cells, 2014, 32, 741-753.	1.4	38
63	Fate of iPSCs Derived from Azoospermic and Fertile Men following Xenotransplantation to Murine Seminiferous Tubules. Cell Reports, 2014, 7, 1284-1297.	2.9	91
64	Germline stem cells: toward the regeneration of spermatogenesis. Fertility and Sterility, 2014, 101, 3-13.	0.5	85
65	Germ cell transplantation into mouse testes procedure. Fertility and Sterility, 2014, 102, e11-e12.	0.5	16
66	Fluorescence- and magnetic-activated cell sorting strategies to isolate and enrich human spermatogonial stem cells. Fertility and Sterility, 2014, 102, 566-580.e7.	0.5	134
67	Human germ cell formation in xenotransplants of induced pluripotent stem cells carrying X chromosome aneuploidies. Scientific Reports, 2014, 4, 6432.	1.6	24
68	Whole-Mount Immunohistochemistry to Study Spermatogonial Stem Cells and Spermatogenic Lineage Development in Mice, Monkeys, and Humans. Methods in Molecular Biology, 2014, 1210, 193-202.	0.4	11
69	Granulocyte colony-stimulating factor with or without stem cell factor extends time to premature ovarian insufficiency in female mice treated with alkylating chemotherapy. Fertility and Sterility, 2013, 99, 2045-2054.e3.	0.5	52
70	Hormone suppression with GnRH antagonist promotes spermatogenic recovery from transplanted spermatogonial stem cells in irradiated cynomolgus monkeys. Andrology, 2013, 1, 886-898.	1.9	38
71	SALL4 Expression in Gonocytes and Spermatogonial Clones of Postnatal Mouse Testes. PLoS ONE, 2013, 8, e53976.	1.1	99
72	Rapid Assembly of Customized TALENs into Multiple Delivery Systems. PLoS ONE, 2013, 8, e80281.	1.1	15

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73	Eliminating malignant contamination from therapeutic human spermatogonial stem cells. Journal of Clinical Investigation, 2013, 123, 1833-1843.	3.9	119
74	Direct Differentiation of Human Pluripotent Stem Cells into Haploid Spermatogenic Cells. Cell Reports, 2012, 2, 440-446.	2.9	217
75	Spermatogonial Stem Cell Transplantation into Rhesus Testes Regenerates Spermatogenesis Producing Functional Sperm. Cell Stem Cell, 2012, 11, 715-726.	5.2	359
76	SOHLH1 and SOHLH2 coordinate spermatogonial differentiation. Developmental Biology, 2012, 361, 301-312.	0.9	174
77	Interspecies chimera between primate embryonic stem cells and mouse embryos: Monkey ESCs engraft into mouse embryos, but not post-implantation fetuses. Stem Cell Research, 2011, 7, 28-40.	0.3	17
78	Fruitful progress to fertility: Male fertility in the test tube. Nature Medicine, 2011, 17, 1564-1565.	15.2	26
79	The Elusive Spermatogonial Stem Cell Marker?1. Biology of Reproduction, 2011, 85, 221-223.	1.2	13
80	Translating Spermatogonial Stem Cell Transplantation to the Clinic. , 2011, , 227-253.		4
81	Separating spermatogonia from cancer cells in contaminated prepubertal primate testis cell suspensions. Human Reproduction, 2011, 26, 3222-3231.	0.4	78
82	Generation and characterization of a Tet-On (rtTA-M2) transgenic rat. BMC Developmental Biology, 2010, 10, 17.	2.1	15
83	Spermatogonial stem cells in higher primates: are there differences from those in rodents?. Reproduction, 2010, 139, 479-493.	1.1	154
84	Spermatogonial stem cell regulation and spermatogenesis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1663-1678.	1.8	369
85	Systems biology discoveries using non-human primate pluripotent stem and germ cells: novel gene and genomic imprinting interactions as well as unique expression patterns. Stem Cell Research and Therapy, 2010, 1, 24.	2.4	10
86	Molecular dissection of the male germ cell lineage identifies putative spermatogonial stem cells in rhesus macaques. Human Reproduction, 2009, 24, 1704-1716.	0.4	132
87	Genes Involved in Post-Transcriptional Regulation Are Overrepresented in Stem/Progenitor Spermatogonia of Cryptorchid Mouse Testes. Stem Cells, 2008, 26, 927-938.	1.4	36
88	Identification of novel homologous microRNA genes in the rhesus macaque genome. BMC Genomics, 2008, 9, 8.	1.2	38
89	Multiresolution identification of germ layer components in teratomas derived from human and nonhuman primate embryonic stem cells. , 2008, , .		14
90	Constitutively Active Protein Kinase A Qualitatively Mimics the Effects of Follicle-Stimulating Hormone on Granulosa Cell Differentiation. Molecular Endocrinology, 2008, 22, 1842-1852.	3.7	58

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91	Recent Progress Studying Spermatogonial Stem Cells in Primates.. Biology of Reproduction, 2008, 78, 89-90.	1.2	0
92	Characterization, Cryopreservation, and Ablation of Spermatogonial Stem Cells in Adult Rhesus Macaques. Stem Cells, 2007, 25, 2330-2338.	1.4	198
93	Pedigreed Primate Embryonic Stem Cells Express Homogeneous Familial Gene Profiles. Stem Cells, 2007, 25, 2695-2704.	1.4	28
94	Efficient Generation of Transgenic Rats Through the Male Germline Using Lentiviral Transduction and Transplantation of Spermatogonial Stem Cells. Journal of Andrology, 2006, 28, 353-360.	2.0	84
95	Effects of Aging and Niche Microenvironment on Spermatogonial Stem Cell Self-Renewal. Stem Cells, 2006, 24, 1505-1511.	1.4	235
96	Cryopreservation and Transplantation of Spermatogonia and Testicular Tissue for Preservation of Male Fertility. Journal of the National Cancer Institute Monographs, 2005, 2005, 51-56.	0.9	106
97	GDNF Family Receptor alpha1 Phenotype of Spermatogonial Stem Cells in Immature Mouse Testes1. Biology of Reproduction, 2005, 73, 1011-1016.	1.2	193
98	Essential role of Plzf in maintenance of spermatogonial stem cells. Nature Genetics, 2004, 36, 653-659.	9.4	852
99	Phenotypic and functional characteristics of spermatogonial stem cells in rats. Developmental Biology, 2004, 274, 158-170.	0.9	145
100	Stem cell and niche development in the postnatal rat testis. Developmental Biology, 2003, 263, 253-263.	0.9	94
101	Restoration of Fertility by Germ Cell Transplantation Requires Effective Recipient Preparation1. Biology of Reproduction, 2003, 69, 412-420.	1.2	144
102	Restoration of Spermatogenesis in Infertile Mice by Sertoli Cell Transplantation1. Biology of Reproduction, 2003, 68, 1064-1071.	1.2	127
103	Germ Line Stem Cell Competition in Postnatal Mouse Testes1. Biology of Reproduction, 2002, 66, 1491-1497.	1.2	73
104	Male germ-line stem cell potential is predicted by morphology of cells in neonatal rat testes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11706-11711.	3.3	83
105	Functional Analysis of Stem Cells in the Adult Rat Testis1. Biology of Reproduction, 2002, 66, 944-949.	1.2	79
106	Retrovirus-Mediated Modification of Male Germline Stem Cells in Rats1. Biology of Reproduction, 2002, 67, 874-879.	1.2	69
107	Transgenic mice produced by retroviral transduction of male germ-line stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13090-13095.	3.3	281
108	Remodeling of the postnatal mouse testis is accompanied by dramatic changes in stem cell number and niche accessibility. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6186-6191.	3.3	281

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109	Spermatogonial stem cell enrichment by multiparameter selection of mouse testis cells. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8346-8351.	3.3	356
110	Transcriptional Activation of the Decidual/Trophoblast Prolactin-Related Protein Gene1. Endocrinology, 1999, 140, 4032-4039.	1.4	20
111	Trophoblast-specific regulation of endocrine-related genes. Placenta, 1998, 19, 65-85.	0.7	1
112	Identification of two new members of the mouse prolactin gene family. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1396, 251-258.	2.4	21
113	The Uteroplacental Prolactin Family and Pregnancy1. Biology of Reproduction, 1998, 58, 273-284.	1.2	133
114	Homologues for Prolactin-Like Proteins A and B are Present in the Mouse1. Biology of Reproduction, 1998, 58, 45-51.	1.2	36
115	A New Member of the Mouse Prolactin (PRL)-Like Protein-C Subfamily, PRL-Like Protein-CÎ±: Structure and Expression**This work was supported by grants from the National Institute of Child Health and Human Development (HD-20676, HD-29797, HD-33994; to M.J.S.) and the Paul Patton Memorial Trust (to) Tj ETQq1 1 0.784314 rgBT	1.4	15
116	The Rodent Placental Prolactin Family and Pregnancy. , 1998, , 145-176.		9
117	Identification and Characterization of a Mouse Homolog for Decidual/Trophoblast Prolactin-Related Protein*. Endocrinology, 1997, 138, 5511-5517.	1.4	48
118	Decidual/Trophoblast Prolactin-Related Protein: Characterization of Gene Structure and Cell-Specific Expression¹. Endocrinology, 1997, 138, 2491-2500.	1.4	47
119	Dual Expression of Prolactin-Related Protein in Decidua and Trophoblast Tissues during Pregnancy in Rats1. Biology of Reproduction, 1997, 56, 647-654.	1.2	55
120	Decidual signals in the establishment of pregnancy: The prolactin family. Placenta, 1997, 18, 329-343.	0.7	5
121	Differentiation of trophoblast endocrine cells. Placenta, 1996, 17, 277-289.	0.7	118
122	Immunochemical characterization and cellular distribution of protein kinase C isozymes in the bovine corpus luteum. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1994, 108, 53-57.	0.2	7
123	Unique metabolites of eicosapentaenoic acid interfere with corpus luteum function in the ewe. Prostaglandins, 1992, 44, 519-530.	1.2	8
124	Identification and Characterization of a Mouse Homolog for Decidual/Trophoblast Prolactin-Related Protein. , 0, .		18
125	Decidual/Trophoblast Prolactin-Related Protein: Characterization of Gene Structure and Cell-Specific Expression. , 0, .		15