

Buom-Yong Ryu

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,327
citations

304368

22
h-index

205818

48
g-index

57
all docs

57
docs citations

57
times ranked

2021
citing authors

#	ARTICLE	IF	CITATIONS
1	Maintenance of Mouse Male Germ Line Stem Cells In Vitro ¹ . <i>Biology of Reproduction</i> , 2003, 68, 2207-2214.	1.2	271
2	Conservation of spermatogonial stem cell self-renewal signaling between mouse and rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14302-14307.	3.3	252
3	Effects of Aging and Niche Microenvironment on Spermatogonial Stem Cell Self-Renewal. <i>Stem Cells</i> , 2006, 24, 1505-1511.	1.4	235
4	Phenotypic and functional characteristics of spermatogonial stem cells in rats. <i>Developmental Biology</i> , 2004, 274, 158-170.	0.9	145
5	Restoration of Fertility by Germ Cell Transplantation Requires Effective Recipient Preparation ¹ . <i>Biology of Reproduction</i> , 2003, 69, 412-420.	1.2	144
6	Bisphenol-A Affects Male Fertility via Fertility-related Proteins in Spermatozoa. <i>Scientific Reports</i> , 2015, 5, 9169.	1.6	136
7	Gestational Exposure to Bisphenol A Affects the Function and Proteome Profile of F1 Spermatozoa in Adult Mice. <i>Environmental Health Perspectives</i> , 2017, 125, 238-245.	2.8	106
8	Stem cell and niche development in the postnatal rat testis. <i>Developmental Biology</i> , 2003, 263, 253-263.	0.9	94
9	Testicular endothelial cells are a critical population in the germline stem cell niche. <i>Nature Communications</i> , 2018, 9, 4379.	5.8	85
10	Efficient Generation of Transgenic Rats Through the Male Germline Using Lentiviral Transduction and Transplantation of Spermatogonial Stem Cells. <i>Journal of Andrology</i> , 2006, 28, 353-360.	2.0	84
11	Male germ-line stem cell potential is predicted by morphology of cells in neonatal rat testes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11706-11711.	3.3	83
12	Lentiviral vector transduction of male germ line stem cells in mice. <i>FEBS Letters</i> , 2002, 524, 111-115.	1.3	73
13	Cryopreservation in Trehalose Preserves Functional Capacity of Murine Spermatogonial Stem Cells. <i>PLoS ONE</i> , 2013, 8, e54889.	1.1	56
14	Effect of Antioxidants and Apoptosis Inhibitors on Cryopreservation of Murine Germ Cells Enriched for Spermatogonial Stem Cells. <i>PLoS ONE</i> , 2016, 11, e0161372.	1.1	53
15	Cryopreservation of Mouse Spermatogonial Stem Cells in Dimethylsulfoxide and Polyethylene Glycol ¹ . <i>Biology of Reproduction</i> , 2013, 89, 109.	1.2	39
16	A novel approach to assessing bisphenol-A hazards using an in vitro model system. <i>BMC Genomics</i> , 2016, 17, 577.	1.2	39
17	Enrichment of Testicular Gonocytes and Genetic Modification Using Lentiviral Transduction in Pigs ¹ . <i>Biology of Reproduction</i> , 2010, 82, 1162-1169.	1.2	35
18	Cryopreservation of porcine spermatogonial stem cells by slow-freezing testis tissue in trehalose ¹ . <i>Journal of Animal Science</i> , 2014, 92, 984-995.	0.2	35

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19	Xenoestrogenic compounds promote capacitation and an acrosome reaction in porcine sperm. <i>Theriogenology</i> , 2011, 75, 1161-1169.	0.9	34
20	Effect of sugar molecules on the cryopreservation of mouse spermatogonial stem cells. <i>Fertility and Sterility</i> , 2014, 101, 1165-1175.e5.	0.5	31
21	Cryopreservation of putative pre-pubertal bovine spermatogonial stem cells by slow freezing. <i>Cryobiology</i> , 2015, 70, 175-183.	0.3	28
22	Bisphenol A Affects on the Functional Properties and Proteome of Testicular Germ Cells and Spermatogonial Stem Cells in vitro Culture Model. <i>Scientific Reports</i> , 2017, 7, 11858.	1.6	22
23	2,3,7,8-Tetrachlorodibenzo-p-dioxin can alter the sex ratio of embryos with decreased viability of Y spermatozoa in mice. <i>Reproductive Toxicology</i> , 2018, 77, 130-136.	1.3	19
24	Xenoestrogenic chemicals effectively alter sperm functional behavior in mice. <i>Reproductive Toxicology</i> , 2011, 32, 418-424.	1.3	17
25	Lentiviral modification of enriched populations of bovine male gonocytes1. <i>Journal of Animal Science</i> , 2014, 92, 106-118.	0.2	17
26	Enrichment and In Vitro Culture of Spermatogonial Stem Cells from Pre-Pubertal Monkey Testes. <i>Tissue Engineering and Regenerative Medicine</i> , 2017, 14, 557-566.	1.6	17
27	In vitro spermatogenesis using bovine testis tissue culture techniques. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 314-323.	1.6	16
28	Effects of paracrine factors on CD24 expression and neural differentiation of male germline stem cells. <i>International Journal of Molecular Medicine</i> , 2015, 36, 255-262.	1.8	13
29	Mbd2-CP2c loop drives adult-type globin gene expression and definitive erythropoiesis. <i>Nucleic Acids Research</i> , 2018, 46, 4933-4949.	6.5	13
30	GDNF family receptor alpha 1 is a reliable marker of undifferentiated germ cells in bulls. <i>Theriogenology</i> , 2019, 132, 172-181.	0.9	12
31	Production of transgenic spermatozoa by lentiviral transduction and transplantation of porcine spermatogonial stem cells. <i>Tissue Engineering and Regenerative Medicine</i> , 2014, 11, 458-466.	1.6	10
32	Paternal Exposure to Bisphenol-A Transgenerationally Impairs Testis Morphology, Germ Cell Associations, and Stemness Properties of Mouse Spermatogonial Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5408.	1.8	10
33	Efficient Enhancement of Lentiviral Transduction Efficiency in Murine Spermatogonial Stem Cells. <i>Molecules and Cells</i> , 2012, 33, 449-456.	1.0	9
34	Effect of Equilibration Time and Temperature on Murine Spermatogonial Stem Cell Cryopreservation. <i>Biopreservation and Biobanking</i> , 2020, 18, 213-221.	0.5	9
35	Petasites japonicus Stimulates the Proliferation of Mouse Spermatogonial Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0133077.	1.1	7
36	A Phytochemical Approach to Promotion of Self-renewal in Murine Spermatogonial Stem Cell by Using <i>Sedum Sarmentosum</i> Extract. <i>Scientific Reports</i> , 2017, 7, 11441.	1.6	6

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37	Expression profile of spermatogenesis associated genes in male germ cells during postnatal development in mice. <i>Journal of Animal Reproduction and Biotechnology</i> , 2020, 35, 289-296.	0.3	6
38	Increased Frequency of Aneuploidy in Long-Lived Spermatozoa. <i>PLoS ONE</i> , 2014, 9, e114600.	1.1	6
39	Testicular endothelial cells promote self-renewal of spermatogonial stem cells in rats. <i>Biology of Reproduction</i> , 2019, 101, 360-367.	1.2	5
40	Gestational Exposure to Bisphenol A Affects Testicular Morphology, Germ Cell Associations, and Functions of Spermatogonial Stem Cells in Male Offspring. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8644.	1.8	5
41	Antioxidant or Apoptosis Inhibitor Supplementation in Culture Media Improves Post-Thaw Recovery of Murine Spermatogonial Stem Cells. <i>Antioxidants</i> , 2021, 10, 754.	2.2	5
42	Transcriptome alterations in spermatogonial stem cells exposed to bisphenol A. <i>Animal Cells and Systems</i> , 2022, 26, 70-83.	0.8	5
43	Enhancement of in vitro culture efficiency of mesenchymal stem cells derived from deer antlers. <i>Tissue Engineering and Regenerative Medicine</i> , 2014, 11, 16-23.	1.6	4
44	A new 5H-purin-6-amine from the leaves of <i>Sedum sarmentosum</i> . <i>Applied Biological Chemistry</i> , 2017, 60, 109-111.	0.7	4
45	Chemotherapeutic Drugs Alter Functional Properties and Proteome of Mouse Testicular Germ Cells In Vitro. <i>Toxicological Sciences</i> , 2018, 164, 465-476.	1.4	4
46	Direct modification of spermatogonial stem cells using lentivirus vectors in vivo leads to efficient generation of transgenic rats. <i>Asian Journal of Andrology</i> , 2019, 21, 190.	0.8	4
47	Necrostatin-1 improves the cryopreservation efficiency of murine spermatogonial stem cells via suppression of necroptosis and apoptosis. <i>Theriogenology</i> , 2020, 158, 445-453.	0.9	4
48	Effective cryopreservation protocol for preservation of male primate (<i>Macaca fascicularis</i>) prepubertal fertility. <i>Reproductive BioMedicine Online</i> , 2020, 41, 1070-1083.	1.1	4
49	Effect of serum replacement on murine spermatogonial stem cell cryopreservation. <i>Theriogenology</i> , 2021, 159, 165-175.	0.9	4
50	Autophagy modulation alleviates cryoinjury in murine spermatogonial stem cell cryopreservation. <i>Andrology</i> , 2022, 10, 340-353.	1.9	3
51	Establishment of adult mouse testis-derived multipotent germ line stem cells and comparison of lineage-specific differentiation potential. <i>Tissue Engineering and Regenerative Medicine</i> , 2014, 11, 121-130.	1.6	2
52	Development of a MEL Cell-Derived Allograft Mouse Model for Cancer Research. <i>Cancers</i> , 2019, 11, 1707.	1.7	1
53	Inhibition of Caspase-8 Activity Improves Freezing Efficiency of Male Germline Stem Cells in Mice. <i>Biopreservation and Biobanking</i> , 2021, , .	0.5	1
54	Induction of cardiomyocyte-like cells from hair follicle cells in mice. <i>International Journal of Molecular Medicine</i> , 2019, 43, 2230-2240.	1.8	1

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55	Protein kinase C regulates self-renewal of mouse spermatogonial stem cells. Tissue Engineering and Regenerative Medicine, 2014, 11, 67-74.	1.6	0
56	Protein kinase C regulates self-renewal of mouse spermatogonial stem cells. Tissue Engineering and Regenerative Medicine, 2015, 12, 37-44.	1.6	0