Satish Kumar Adiga

List of Publications by Year
in descending order

109 papers	2,142 citations	257101 24 h-index	301761 39 g-index
109 all docs	109 docs citations	109 times ranked	2382 citing authors

#	Article	IF	Citations
1	Current Insights and Latest Updates in Sperm Motility and Associated Applications in Assisted Reproduction. Reproductive Sciences, 2022, 29, 7-25.	1.1	56
2	Short-Term Hypothermic Holding of Mouse Immature Testicular Tissue Does Not Alter the Expression of DNA Methyltransferases and Global DNA Methylation Level, Post-Organotypic Culture. Frontiers in Endocrinology, 2022, 13, 854297.	1.5	0
3	Artificial Activation of Murine Oocytes Using Strontium to Derive Haploid and Diploid Parthenotes. Methods in Molecular Biology, 2022, 2429, 15-26.	0.4	2
4	Sperm characteristics in normal and abnormal ejaculates are differently influenced by the length of ejaculatory abstinence. Andrology, 2022, 10, 1351-1360.	1.9	2
5	Distinctions in PCOS Induced by Letrozole Vs Dehydroepiandrosterone With High-fat Diet in Mouse Model. Endocrinology, 2022, 163, .	1.4	7
6	Oncofertility: Knowledge, Attitudes, and Barriers Among Indian Oncologists and Gynecologists. Journal of Adolescent and Young Adult Oncology, 2021, 10, 71-77.	0.7	16
7	A Simple, Centrifugation-Free, Sperm-Sorting Device Eliminates the Risks of Centrifugation in the Swim-Up Method While Maintaining Functional Competence and DNA Integrity of Selected Spermatozoa. Reproductive Sciences, 2021, 28, 134-143.	1.1	14
8	Quinoline Derivative Enhances Human Sperm Motility and Improves the Functional Competence. Reproductive Sciences, 2021, 28, 1316-1332.	1.1	3
9	Impact of Temperature and Time Interval Prior to Immature Testicular-Tissue Organotypic Culture on Cellular Niche. Reproductive Sciences, 2021, 28, 2161-2173.	1.1	3
10	The synthesis of a novel pentoxifylline derivative with superior human sperm motility enhancement properties. New Journal of Chemistry, 2021, 45, 1072-1081.	1.4	8
11	Hanudatta S. Atreya (1974â€“2020). Magnetic Resonance in Chemistry, 2021, 59, 201-212.	1.1	0
12	Mitochondrial Dysfunction and Oxidative Stress Caused by Cryopreservation in Reproductive Cells. Antioxidants, 2021, 10, 337.	2.2	70
13	Stage-specific response in early mouse embryos exposed to prednisolone in vitro. Journal of Endocrinology, 2021, 248, 237-247.	1.2	1
14	Organophosphorus pesticide quinalphos (Ekalux 25 E.C.) reduces sperm functional competence and decreases the fertilisation potential in Swiss albino mice. Andrologia, 2021, 53, e14115.	1.0	7
15	Sperm Oxidative Stress during In Vitro Manipulation and Its Effects on Sperm Function and Embryo Development. Antioxidants, 2021, 10, 1025.	2.2	43
16	Structure-based redesigning of pentoxifylline analogs against selective phosphodiesterases to modulate sperm functional competence for assisted reproductive technologies. Scientific Reports, 2021, 11, 12293.	1.6	10
17	Curcumin nanocrystals attenuate cyclophosphamide-induced testicular toxicity in mice. Toxicology and Applied Pharmacology, 2021, 433, 115772.	1.3	8
18	Survey of Fertility Preservation Options Available to Patients With Cancer Around the Globe. JCO Global Oncology, 2020, 6, 331-344.	0.8	40

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19	Survey of Third-Party Parenting Options Associated With Fertility Preservation Available to Patients With Cancer Around the Globe. JCO Global Oncology, 2020, 6, 345-349.	0.8	26
20	Exposure to first line anti-tuberculosis drugs in prepubertal age reduces the quality and functional competence of spermatozoa and oocytes in Swiss albino mice. Environmental Toxicology and Pharmacology, 2020, 73, 103292.	2.0	5
21	Fertility preservation during the COVID-19 pandemic: mitigating the viral contamination risk to reproductive cells in cryostorage. Reproductive BioMedicine Online, 2020, 41, 991-997.	1.1	16
22	Reduced ovarian response to controlled ovarian stimulation is associated with increased oxidative stress in the follicular environment. Reproductive Biology, 2020, 20, 402-407.	0.9	9
23	Early prepubertal cyclophosphamide exposure in mice results in long-term loss of ovarian reserve, and impaired embryonic development and blastocyst quality. PLoS ONE, 2020, 15, e0235140.	1.1	6
24	Installing oncofertility programs for common cancers in limited resource settings (Repro-Can-OPEN) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Assisted Reproduction and Genetics, 2020, 37, 1567-1577.	1.2	17
25	Germinal stage vitrification is superior to MII stage vitrification in prepubertal mouse oocytes. Cryobiology, 2020, 93, 49-55.	0.3	5
26	Antidiabetic drug metformin affects the developmental competence of cleavage-stage embryos. Journal of Assisted Reproduction and Genetics, 2020, 37, 1227-1238.	1.2	4
27	Epigallocatechin-3-gallate (EGCG) protects the oocytes from methyl parathion-induced cytoplasmic deformities by suppressing oxidative and endoplasmic reticulum stress. Pesticide Biochemistry and Physiology, 2020, 167, 104588.	1.6	10
28	Ethanolic extract of Moringa oleifera leaves alleviate cyclophosphamide-induced testicular toxicity by improving endocrine function and modulating cell specific gene expression in mouse testis. Journal of Ethnopharmacology, 2020, 259, 112922.	2.0	27
29	High-fat diet leads to elevated lipid accumulation and endoplasmic reticulum stress in oocytes, causing poor embryo development. Reproduction, Fertility and Development, 2020, 32, 1169.	0.1	10
30	The utility of nuclear magnetic resonance spectroscopy in assisted reproduction. Open Biology, 2020, 10, 200092.	1.5	10
31	Barriers and Opportunities of Oncofertility Practice in Nine Developing Countries and the Emerging Oncofertility Professional Engagement Network. JCO Global Oncology, 2020, 6, 369-374.	0.8	13
32	Sperm-mediated DNA lesions alter metabolite levels in spent embryo culture medium. Reproduction, Fertility and Development, 2019, 31, 443.	0.1	4
33	Supplementation of biotin to sperm preparation medium enhances fertilizing ability of spermatozoa and improves preimplantation embryo development. Journal of Assisted Reproduction and Genetics, 2019, 36, 255-266.	1.2	15
34	Lack of an Association Between Sperm Head Abnormality and DNA Damage by Alkaline Comet Assay. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 1345-1350.	0.4	0
35	Spent embryo culture medium metabolites are related to the in vitro attachment ability of blastocysts. Scientific Reports, 2018, 8, 17025.	1.6	13
36	Barriers and Opportunities of Oncofertility Practice in Nine Developing Countries and the Emerging Oncofertility Professional Engagement Network. JCO Global Oncology, 2018, 6, 1-6.	0.8	16

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37	Haploid parthenotes express differential response to inÂvitro exposure of ammonia compared to normally fertilized embryos. Biochemical and Biophysical Research Communications, 2017, 486, 88-93.	1.0	4
38	Epigenetic changes in preimplantation embryos subjected to laser manipulation.. Lasers in Medical Science, 2017, 32, 2081-2087.	1.0	8
39	Supplementing zinc oxide nanoparticles to cryopreservation medium minimizes the freeze-thaw-induced damage to spermatozoa. Biochemical and Biophysical Research Communications, 2017, 494, 656-662.	1.0	67
40	Indian propolis ameliorates the mitomycin C-induced testicular toxicity by reducing DNA damage and elevating the antioxidant activity. Biomedicine and Pharmacotherapy, 2017, 95, 252-263.	2.5	26
41	Sperm-derived factors enhance thein vitrodevelopmental potential of haploid parthenotes. Zygote, 2017, 25, 697-710.	0.5	5
42	Liposome-encapsulated diacylglycerol and Inositol triphosphate induce delayed oocyte activation and poor development of parthenotes. Journal of the Turkish German Gynecology Association, 2017, 18, 102-109.	0.2	1
43	Design and Microwave Assisted Synthesis of Coumarin Derivatives as PDE Inhibitors. International Journal of Medicinal Chemistry, 2016, 2016, 1-16.	2.2	7
44	Sperm Chromatin Immaturity Observed in Short Abstinence Ejaculates Affects DNA Integrity and Longevity In Vitro. PLoS ONE, 2016, 11, e0152942.	1.1	18
45	Synthesis, anti-proliferative and genotoxicity studies of 6-chloro-5-(2-substituted-ethyl)-1,3-dihydro-2H-indol-2-ones and 6-chloro-5-(2-chloroethyl)-3-(alkyl/ary-2-ylidene)indolin-2-ones. European Journal of Medicinal Chemistry, 2016, 121, 221-231.	2.6	3
46	Influence of sperm DNA damage on human preimplantation embryo metabolism. Reproductive Biology, 2016, 16, 234-241.	0.9	20
47	Ethambutol induces testicular damage and decreases the sperm functional competence in Swiss albino mice. Environmental Toxicology and Pharmacology, 2016, 47, 28-37.	2.0	7
48	Unraveling the association between genetic integrity and metabolic activity in pre-implantation stage embryos. Scientific Reports, 2016, 6, 37291.	1.6	16
49	Laser assisted zona hatching does not lead to immediate impairment in human embryo quality and metabolism. Systems Biology in Reproductive Medicine, 2016, 62, 396-403.	1.0	16
50	Genetic Instability in Lymphocytes is Associated With Blood Plasma Antioxidant Levels in Health Care Workers Occupationally Exposed to Ionizing Radiation. International Journal of Toxicology, 2016, 35, 327-335.	0.6	20
51	Ethanolic extract of Moringa oleifera Lam. leaves protect the pre-pubertal spermatogonial cells from cyclophosphamide-induced damage. Journal of Ethnopharmacology, 2016, 182, 101-109.	2.0	22
52	Mitigating effect of Indian propolis against mitomycin C induced bone marrow toxicity. Cytotechnology, 2016, 68, 1789-1800.	0.7	13
53	Distribution pattern of cytoplasmic organelles, spindle integrity, oxidative stress, octamer-binding transcription factor 4 (Oct4) expression and developmental potential of oocytes following multiple superovulation. Reproduction, Fertility and Development, 2016, 28, 2027.	0.1	32
54	Sperm abnormalities induced by pre-pubertal exposure to cyclophosphamide are effectively mitigated byMoringa oleiferaleaf extract. Andrologia, 2016, 48, 125-136.	1.0	36

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55	Oocytes recovered after ovarian tissue slow freezing have impaired H2AX phosphorylation and functional competence. Reproduction, Fertility and Development, 2015, 27, 1242.	0.1	5
56	Laser-assisted hatching of cleavage-stage embryos impairs developmental potential and increases DNA damage in blastocysts. Lasers in Medical Science, 2015, 30, 95-101.	1.0	13
57	In Vitro Matured Oocytes Are More Susceptible than In Vivo Matured Oocytes to Mock ICSI Induced Functional and Genetic Changes. PLoS ONE, 2015, 10, e0119735.	1.1	10
58	Oocyte retrieval at 140-mmHg negative aspiration pressure: A promising alternative to flushing and aspiration in assisted reproduction in women with low ovarian reserve. Journal of Human Reproductive Sciences, 2015, 8, 98.	0.4	16
59	Is there a Need for Luteinizing Hormone (LH) Estimation in Patients Undergoing Ovarian Stimulation with Gonadotropin-Releasing Hormone Antagonists and Recombinant Follicle-Stimulating Hormone?. Journal of Clinical and Diagnostic Research JCDR, 2014, 8, 90-2.	0.8	9
60	Advancing or postponing the day of human chorionic gonadotropin does not matter for the outcome in assisted reproductive technology. Journal of Human Reproductive Sciences, 2014, 7, 107.	0.4	1
61	Liposome encapsulated soy lecithin and cholesterol can efficiently replace chicken egg yolk in human semen cryopreservation medium. Systems Biology in Reproductive Medicine, 2014, 60, 183-188.	1.0	21
62	A fast NMR method for resonance assignments: application to metabolomics. Journal of Biomolecular NMR, 2014, 58, 165-173.	1.6	41
63	In situviability detection assays induce heat-shock protein 70 expression in spermatozoa without affecting the chromatin integrity. Andrologia, 2014, 47, n/a-n/a.	1.0	2
64	Synthesis of novel thiadiazolotriazin-4-ones and study of their mosquito-larvicidal and antibacterial properties. European Journal of Medicinal Chemistry, 2014, 84, 194-199.	2.6	14
65	Methyl parathion inhibits the nuclear maturation, decreases the cytoplasmic quality in oocytes and alters the developmental potential of embryos of Swiss albino mice. Toxicology and Applied Pharmacology, 2014, 279, 338-350.	1.3	31
66	Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation. Environmental Research, 2014, 132, 297-304.	3.7	30
67	Ovarian tissue vitrification is more efficient than slow freezing in protecting oocyte and granulosa cell DNA integrity. Systems Biology in Reproductive Medicine, 2014, 60, 317-322.	1.0	29
68	NMR studies of preimplantation embryo metabolism in human assisted reproductive techniques: a new biomarker for assessment of embryo implantation potential. NMR in Biomedicine, 2013, 26, 20-27.	1.6	44
69	Nuclear DNA fragmentation negatively affects zona binding competence of Y bearing mouse spermatozoa. Journal of Assisted Reproduction and Genetics, 2013, 30, 1611-1615.	1.2	14
70	Semen Abnormalities, Sperm DNA Damage and Global Hypermethylation in Health Workers Occupationally Exposed to Ionizing Radiation. PLoS ONE, 2013, 8, e69927.	1.1	66
71	Germ cell abnormalities in streptozotocin induced diabetic mice do not correlate with blood glucose level. Journal of Assisted Reproduction and Genetics, 2012, 29, 1405-1413.	1.2	14
72	Addition of zinc to human ejaculate prior to cryopreservation prevents freeze-thaw-induced DNA damage and preserves sperm function. Journal of Assisted Reproduction and Genetics, 2012, 29, 1447-1453.	1.2	53

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73	Frozen-thawed spermatozoa from oligozoospermic ejaculates are susceptible to in situ DNA fragmentation in polyvinylpyrrolidone-based sperm-immobilization medium. Fertility and Sterility, 2012, 98, 321-325.	0.5	13
74	Sperm processing by swim-up and density gradient is effective in elimination of sperm with DNA damage. Journal of Assisted Reproduction and Genetics, 2012, 29, 557-563.	1.2	86
75	Supplementation of biotin to sperm preparation medium increases the motility and longevity in cryopreserved human spermatozoa. Journal of Assisted Reproduction and Genetics, 2012, 29, 631-635.	1.2	22
76	Poor sperm quality and advancing age are associated with increased sperm DNA damage in infertile men. Andrologia, 2012, 44, 642-649.	1.0	107
77	Vitamin E supplementation in semen-freezing medium improves the motility and protects sperm from freeze-thawâ€“induced DNA damage. Fertility and Sterility, 2011, 95, 1149-1151.	0.5	93
78	Ejaculate fractions of asthenozoospermic and teratozoospermic patients have differences in the sperm DNA integrity. Andrologia, 2011, 43, 416-421.	1.0	15
79	Combination of swim-up and density gradient separation methods effectively eliminate DNA damaged sperm. Journal of the Turkish German Gynecology Association, 2011, 12, 148-152.	0.2	7
80	Reduced expression of DNMT3B in the germ cells of patients with bilateral spermatogenic arrest does not lead to changes in the global methylation status. Molecular Human Reproduction, 2011, 17, 545-549.	1.3	17
81	Controlled cooling versus rapid freezing of teratozoospermic semen samples: Impact on sperm chromatin integrity. Journal of Human Reproductive Sciences, 2011, 4, 121.	0.4	2
82	Association between the extent of DNA damage in the spermatozoa, fertilization and developmental competence in preimplantation stage embryos. Journal of the Turkish German Gynecology Association, 2010, 11, 182-186.	0.2	10
83	A randomized controlled study to evaluate the cost-effectiveness in sperm extraction using carbon dioxide and carbon dioxide free system in relation to intrauterine insemination pregnancy. Journal of Human Reproductive Sciences, 2010, 3, 8.	0.4	3
84	Transgenerational changes in somatic and germ line genetic integrity of first-generation offspring derived from the DNA damaged sperm. Fertility and Sterility, 2010, 93, 2486-2490.	0.5	47
85	Plasma protein thiols, ceruloplasmin, C-reactive protein and red blood cell acetylcholinesterase in patients undergoing intrauterine insemination. Journal of Human Reproductive Sciences, 2009, 2, 27.	0.4	4
86	Preventive efficacy of hydroalcoholic extract of Cymbopogon citratus against radiation-induced DNA damage on V79 cells and free radical scavenging ability against radicals generated in vitro. Human and Experimental Toxicology, 2009, 28, 195-202.	1.1	14
87	Enhancement in motility of sperm co-incubated with cumulus oocyte complex (COC) in vitro. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 145, 167-171.	0.5	7
88	Ability of deoxyribonucleic acidâ€“damaged sperm to withstand freeze-thawâ€“induced damage during cryopreservation. Fertility and Sterility, 2009, 92, 959-963.	0.5	8
89	Evaluation of oxidative stress, antioxidants and prolactin in infertile women. Indian Journal of Clinical Biochemistry, 2008, 23, 186-190.	0.9	21
90	Effect of cryopreservation on sperm DNA integrity in patients with teratospermia. Fertility and Sterility, 2008, 89, 1723-1727.	0.5	86

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91	Protection of Ionizing Radiation-Induced Cytogenetic Damage by Hydroalcoholic Extract of Cynodon Dactylon in Chinese Hamster Lung Fibroblast Cells and Human Peripheral Blood Lymphocytes. Journal of Environmental Pathology, Toxicology and Oncology, 2008, 27, 101-112.	0.6	7
92	Delayed and stage specific phosphorylation of H2AX during preimplantation development of Î³-irradiated mouse embryos. Reproduction, 2007, 133, 415-422.	1.1	42
93	p21 provides stage specific DNA damage control to preimplantation embryos. Oncogene, 2007, 26, 6141-6149.	2.6	65
94	Antioxidant, anticlastogenic and radioprotective effect of Coleus aromaticus on Chinese hamster fibroblast cells (V79) exposed to gamma radiation. Mutagenesis, 2006, 21, 237-242.	1.0	56
95	Suppression of replication fork progression in low-dose-specific p53-dependent S-phase DNA damage checkpoint. Oncogene, 2006, 25, 5921-5932.	2.6	34
96	Transcription-independent suppression of DNA synthesis by p53 in sperm-irradiated mouse zygotes. Oncogene, 2005, 24, 3229-3235.	2.6	22
97	Lactate dehydrogenase estimation in follicular fluid: correlation with patient age, follicle size and super ovulation in ART cycles. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2002, 105, 150-154.	0.5	8
98	Androgen receptor expression and DNA content of paraffin-embedded archival human prostate tumors. Cytometry, 2002, 50, 25-30.	1.8	7
99	Influence of swim-up method on the recovery of spermatozoa from different types of semen samples. Journal of Assisted Reproduction and Genetics, 2001, 18, 160-164.	1.2	13
100	Correlation between cell survival and micronuclei formation in V79 cells treated with vindesine before exposure to different doses of Î³-radiation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2000, 448, 57-68.	0.4	15
101	Effect of teniposide (VM-26) on the cell survival, micronuclei-induction and lactate dehydrogenase activity on V79 cells. Toxicology, 1999, 138, 29-41.	2.0	15
102	Correlation between cell survival, micronuclei-induction, and LDH activity in V79 cells treated with teniposide (VM-26) before exposure to different doses of Î³ radiation. Toxicology Letters, 1999, 109, 31-41.	0.4	15
103	Influence of vindesine exposure on the micronucleus formation and cell survival in V79 cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 421, 55-63.	0.4	12
104	Influence of various concentrations of taxol on cell survival, micronuclei induction, and LDH activity in cultured V79 cells. Cancer Letters, 1995, 96, 195-200.	3.2	21
105	Cadmium chloride induces dose-dependent increases in the frequency of micronuclei in mouse bone marrow. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1994, 306, 85-90.	0.4	18
106	Duration of dry and humidified incubation of single-step embryo culture medium and oxygen tension during sham culture do not alter metabolomics signature. F1000Research, 0, 11, 242.	0.8	0
107	Duration of dry and humidified incubation of single-step embryo culture medium and oxygen tension during sham culture do not alter metabolomics signature. F1000Research, 0, 11, 242.	0.8	0
108	Duration of dry and humidified incubation of single-step embryo culture medium and oxygen tension during sham culture do not alter medium composition.. F1000Research, 0, 11, 242.	0.8	0

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109	Duration of dry and humidified incubation of single-step embryo culture medium and oxygen tension during sham culture do not alter metabolomics signature. F1000Research, 0, 11, 242.	0.8	0