

# Satish Kumar Adiga

## List of Publications by Year in descending order

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109  
papers

2,142  
citations

257357

24  
h-index

302012

39  
g-index

109  
all docs

109  
docs citations

109  
times ranked

2382  
citing authors

#	ARTICLE	IF	CITATIONS
1	Poor sperm quality and advancing age are associated with increased sperm DNA damage in infertile men. <i>Andrologia</i> , 2012, 44, 642-649.	1.0	107
2	Vitamin E supplementation in semen-freezing medium improves the motility and protects sperm from freeze-thaw-induced DNA damage. <i>Fertility and Sterility</i> , 2011, 95, 1149-1151.	0.5	93
3	Effect of cryopreservation on sperm DNA integrity in patients with teratospermia. <i>Fertility and Sterility</i> , 2008, 89, 1723-1727.	0.5	86
4	Sperm processing by swim-up and density gradient is effective in elimination of sperm with DNA damage. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 557-563.	1.2	86
5	Mitochondrial Dysfunction and Oxidative Stress Caused by Cryopreservation in Reproductive Cells. <i>Antioxidants</i> , 2021, 10, 337.	2.2	70
6	Supplementing zinc oxide nanoparticles to cryopreservation medium minimizes the freeze-thaw-induced damage to spermatozoa. <i>Biochemical and Biophysical Research Communications</i> , 2017, 494, 656-662.	1.0	67
7	Semen Abnormalities, Sperm DNA Damage and Global Hypermethylation in Health Workers Occupationally Exposed to Ionizing Radiation. <i>PLoS ONE</i> , 2013, 8, e69927.	1.1	66
8	p21 provides stage specific DNA damage control to preimplantation embryos. <i>Oncogene</i> , 2007, 26, 6141-6149.	2.6	65
9	Antioxidant, anticlastogenic and radioprotective effect of <i>Coleus aromaticus</i> on Chinese hamster fibroblast cells (V79) exposed to gamma radiation. <i>Mutagenesis</i> , 2006, 21, 237-242.	1.0	56
10	Current Insights and Latest Updates in Sperm Motility and Associated Applications in Assisted Reproduction. <i>Reproductive Sciences</i> , 2022, 29, 7-25.	1.1	56
11	Addition of zinc to human ejaculate prior to cryopreservation prevents freeze-thaw-induced DNA damage and preserves sperm function. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 1447-1453.	1.2	53
12	Transgenerational changes in somatic and germ line genetic integrity of first-generation offspring derived from the DNA damaged sperm. <i>Fertility and Sterility</i> , 2010, 93, 2486-2490.	0.5	47
13	NMR studies of preimplantation embryo metabolism in human assisted reproductive techniques: a new biomarker for assessment of embryo implantation potential. <i>NMR in Biomedicine</i> , 2013, 26, 20-27.	1.6	44
14	Sperm Oxidative Stress during In Vitro Manipulation and Its Effects on Sperm Function and Embryo Development. <i>Antioxidants</i> , 2021, 10, 1025.	2.2	43
15	Delayed and stage specific phosphorylation of H2AX during preimplantation development of $\beta$ -irradiated mouse embryos. <i>Reproduction</i> , 2007, 133, 415-422.	1.1	42
16	A fast NMR method for resonance assignments: application to metabolomics. <i>Journal of Biomolecular NMR</i> , 2014, 58, 165-173.	1.6	41
17	Survey of Fertility Preservation Options Available to Patients With Cancer Around the Globe. <i>JCO Global Oncology</i> , 2020, 6, 331-344.	0.8	40
18	Sperm abnormalities induced by pre-pubertal exposure to cyclophosphamide are effectively mitigated by <i>Moringa oleifera</i> leaf extract. <i>Andrologia</i> , 2016, 48, 125-136.	1.0	36

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19	Suppression of replication fork progression in low-dose-specific p53-dependent S-phase DNA damage checkpoint. <i>Oncogene</i> , 2006, 25, 5921-5932.	2.6	34
20	Distribution pattern of cytoplasmic organelles, spindle integrity, oxidative stress, octamer-binding transcription factor 4 (Oct4) expression and developmental potential of oocytes following multiple superovulation. <i>Reproduction, Fertility and Development</i> , 2016, 28, 2027.	0.1	32
21	Methyl parathion inhibits the nuclear maturation, decreases the cytoplasmic quality in oocytes and alters the developmental potential of embryos of Swiss albino mice. <i>Toxicology and Applied Pharmacology</i> , 2014, 279, 338-350.	1.3	31
22	Association between sperm DNA integrity and seminal plasma antioxidant levels in health workers occupationally exposed to ionizing radiation. <i>Environmental Research</i> , 2014, 132, 297-304.	3.7	30
23	Ovarian tissue vitrification is more efficient than slow freezing in protecting oocyte and granulosa cell DNA integrity. <i>Systems Biology in Reproductive Medicine</i> , 2014, 60, 317-322.	1.0	29
24	Ethanol extract of <i>Moringa oleifera</i> leaves alleviate cyclophosphamide-induced testicular toxicity by improving endocrine function and modulating cell specific gene expression in mouse testis. <i>Journal of Ethnopharmacology</i> , 2020, 259, 112922.	2.0	27
25	Indian propolis ameliorates the mitomycin C-induced testicular toxicity by reducing DNA damage and elevating the antioxidant activity. <i>Biomedicine and Pharmacotherapy</i> , 2017, 95, 252-263.	2.5	26
26	Survey of Third-Party Parenting Options Associated With Fertility Preservation Available to Patients With Cancer Around the Globe. <i>JCO Global Oncology</i> , 2020, 6, 345-349.	0.8	26
27	Transcription-independent suppression of DNA synthesis by p53 in sperm-irradiated mouse zygotes. <i>Oncogene</i> , 2005, 24, 3229-3235.	2.6	22
28	Supplementation of biotin to sperm preparation medium increases the motility and longevity in cryopreserved human spermatozoa. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 631-635.	1.2	22
29	Ethanol extract of <i>Moringa oleifera</i> Lam. leaves protect the pre-pubertal spermatogonial cells from cyclophosphamide-induced damage. <i>Journal of Ethnopharmacology</i> , 2016, 182, 101-109.	2.0	22
30	Influence of various concentrations of taxol on cell survival, micronuclei induction, and LDH activity in cultured V79 cells. <i>Cancer Letters</i> , 1995, 96, 195-200.	3.2	21
31	Evaluation of oxidative stress, antioxidants and prolactin in infertile women. <i>Indian Journal of Clinical Biochemistry</i> , 2008, 23, 186-190.	0.9	21
32	Liposome encapsulated soy lecithin and cholesterol can efficiently replace chicken egg yolk in human semen cryopreservation medium. <i>Systems Biology in Reproductive Medicine</i> , 2014, 60, 183-188.	1.0	21
33	Influence of sperm DNA damage on human preimplantation embryo metabolism. <i>Reproductive Biology</i> , 2016, 16, 234-241.	0.9	20
34	Genetic Instability in Lymphocytes is Associated With Blood Plasma Antioxidant Levels in Health Care Workers Occupationally Exposed to Ionizing Radiation. <i>International Journal of Toxicology</i> , 2016, 35, 327-335.	0.6	20
35	Cadmium chloride induces dose-dependent increases in the frequency of micronuclei in mouse bone marrow. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1994, 306, 85-90.	0.4	18
36	Sperm Chromatin Immaturity Observed in Short Abstinence Ejaculates Affects DNA Integrity and Longevity In Vitro. <i>PLoS ONE</i> , 2016, 11, e0152942.	1.1	18

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37	Reduced expression of DNMT3B in the germ cells of patients with bilateral spermatogenic arrest does not lead to changes in the global methylation status. <i>Molecular Human Reproduction</i> , 2011, 17, 545-549.	1.3	17
38	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
39	Unraveling the association between genetic integrity and metabolic activity in pre-implantation stage embryos. <i>Scientific Reports</i> , 2016, 6, 37291.	1.6	16
40	Laser assisted zona hatching does not lead to immediate impairment in human embryo quality and metabolism. <i>Systems Biology in Reproductive Medicine</i> , 2016, 62, 396-403.	1.0	16
41	Barriers and Opportunities of Oncofertility Practice in Nine Developing Countries and the Emerging Oncofertility Professional Engagement Network. <i>JCO Global Oncology</i> , 2018, 6, 1-6.	0.8	16
42	Fertility preservation during the COVID-19 pandemic: mitigating the viral contamination risk to reproductive cells in cryostorage. <i>Reproductive BioMedicine Online</i> , 2020, 41, 991-997.	1.1	16
43	Oncofertility: Knowledge, Attitudes, and Barriers Among Indian Oncologists and Gynecologists. <i>Journal of Adolescent and Young Adult Oncology</i> , 2021, 10, 71-77.	0.7	16
44	Oocyte retrieval at 140-mmHg negative aspiration pressure: A promising alternative to flushing and aspiration in assisted reproduction in women with low ovarian reserve. <i>Journal of Human Reproductive Sciences</i> , 2015, 8, 98.	0.4	16
45	Effect of teniposide (VM-26) on the cell survival, micronuclei-induction and lactate dehydrogenase activity on V79 cells. <i>Toxicology</i> , 1999, 138, 29-41.	2.0	15
46	Correlation between cell survival, micronuclei-induction, and LDH activity in V79 cells treated with teniposide (VM-26) before exposure to different doses of $\beta$ radiation. <i>Toxicology Letters</i> , 1999, 109, 31-41.	0.4	15
47	Correlation between cell survival and micronuclei formation in V79 cells treated with vindesine before exposure to different doses of $\beta$ -radiation. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 448, 57-68.	0.4	15
48	Ejaculate fractions of asthenozoospermic and teratozoospermic patients have differences in the sperm DNA integrity. <i>Andrologia</i> , 2011, 43, 416-421.	1.0	15
49	Supplementation of biotin to sperm preparation medium enhances fertilizing ability of spermatozoa and improves preimplantation embryo development. <i>Journal of Assisted Reproduction and Genetics</i> , 2019, 36, 255-266.	1.2	15
50	Preventive efficacy of hydroalcoholic extract of <i>Cymbopogon citratus</i> against radiation-induced DNA damage on V79 cells and free radical scavenging ability against radicals generated in vitro. <i>Human and Experimental Toxicology</i> , 2009, 28, 195-202.	1.1	14
51	Germ cell abnormalities in streptozotocin induced diabetic mice do not correlate with blood glucose level. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 1405-1413.	1.2	14
52	Nuclear DNA fragmentation negatively affects zona binding competence of Y bearing mouse spermatozoa. <i>Journal of Assisted Reproduction and Genetics</i> , 2013, 30, 1611-1615.	1.2	14
53	Synthesis of novel thiadiazolotriazin-4-ones and study of their mosquito-larvicidal and antibacterial properties. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 194-199.	2.6	14
54	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. <i>Reproductive Sciences</i> , 2021, 28, 134-143.	1.1	14

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55	Influence of swim-up method on the recovery of spermatozoa from different types of semen samples. <i>Journal of Assisted Reproduction and Genetics</i> , 2001, 18, 160-164.	1.2	13
56	Frozen-thawed spermatozoa from oligozoospermic ejaculates are susceptible to in situ DNA fragmentation in polyvinylpyrrolidone-based sperm-immobilization medium. <i>Fertility and Sterility</i> , 2012, 98, 321-325.	0.5	13
57	Laser-assisted hatching of cleavage-stage embryos impairs developmental potential and increases DNA damage in blastocysts. <i>Lasers in Medical Science</i> , 2015, 30, 95-101.	1.0	13
58	Mitigating effect of Indian propolis against mitomycin C induced bone marrow toxicity. <i>Cytotechnology</i> , 2016, 68, 1789-1800.	0.7	13
59	Spent embryo culture medium metabolites are related to the in vitro attachment ability of blastocysts. <i>Scientific Reports</i> , 2018, 8, 17025.	1.6	13
60	Barriers and Opportunities of Oncofertility Practice in Nine Developing Countries and the Emerging Oncofertility Professional Engagement Network. <i>JCO Global Oncology</i> , 2020, 6, 369-374.	0.8	13
61	Influence of vindesine exposure on the micronucleus formation and cell survival in V79 cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1998, 421, 55-63.	0.4	12
62	Association between the extent of DNA damage in the spermatozoa, fertilization and developmental competence in preimplantation stage embryos. <i>Journal of the Turkish German Gynecology Association</i> , 2010, 11, 182-186.	0.2	10
63	Epigallocatechin-3-gallate (EGCG) protects the oocytes from methyl parathion-induced cytoplasmic deformities by suppressing oxidative and endoplasmic reticulum stress. <i>Pesticide Biochemistry and Physiology</i> , 2020, 167, 104588.	1.6	10
64	Structure-based redesigning of pentoxifylline analogs against selective phosphodiesterases to modulate sperm functional competence for assisted reproductive technologies. <i>Scientific Reports</i> , 2021, 11, 12293.	1.6	10
65	High-fat diet leads to elevated lipid accumulation and endoplasmic reticulum stress in oocytes, causing poor embryo development. <i>Reproduction, Fertility and Development</i> , 2020, 32, 1169.	0.1	10
66	The utility of nuclear magnetic resonance spectroscopy in assisted reproduction. <i>Open Biology</i> , 2020, 10, 200092.	1.5	10
67	In Vitro Matured Oocytes Are More Susceptible than In Vivo Matured Oocytes to Mock ICSI Induced Functional and Genetic Changes. <i>PLoS ONE</i> , 2015, 10, e0119735.	1.1	10
68	Is there a Need for Luteinizing Hormone (LH) Estimation in Patients Undergoing Ovarian Stimulation with Gonadotropin-Releasing Hormone Antagonists and Recombinant Follicle-Stimulating Hormone?. <i>Journal of Clinical and Diagnostic Research JCDR</i> , 2014, 8, 90-2.	0.8	9
69	Reduced ovarian response to controlled ovarian stimulation is associated with increased oxidative stress in the follicular environment. <i>Reproductive Biology</i> , 2020, 20, 402-407.	0.9	9
70	Lactate dehydrogenase estimation in follicular fluid: correlation with patient age, follicle size and super ovulation in ART cycles. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2002, 105, 150-154.	0.5	8
71	Ability of deoxyribonucleic acid "damaged sperm to withstand freeze-thaw" induced damage during cryopreservation. <i>Fertility and Sterility</i> , 2009, 92, 959-963.	0.5	8
72	Epigenetic changes in preimplantation embryos subjected to laser manipulation.. <i>Lasers in Medical Science</i> , 2017, 32, 2081-2087.	1.0	8

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73	The synthesis of a novel pentoxifylline derivative with superior human sperm motility enhancement properties. <i>New Journal of Chemistry</i> , 2021, 45, 1072-1081.	1.4	8
74	Curcumin nanocrystals attenuate cyclophosphamide-induced testicular toxicity in mice. <i>Toxicology and Applied Pharmacology</i> , 2021, 433, 115772.	1.3	8
75	Androgen receptor expression and DNA content of paraffin-embedded archival human prostate tumors. <i>Cytometry</i> , 2002, 50, 25-30.	1.8	7
76	Protection of Ionizing Radiation-Induced Cytogenetic Damage by Hydroalcoholic Extract of <i>Cynodon Dactylon</i> in Chinese Hamster Lung Fibroblast Cells and Human Peripheral Blood Lymphocytes. <i>Journal of Environmental Pathology, Toxicology and Oncology</i> , 2008, 27, 101-112.	0.6	7
77	Enhancement in motility of sperm co-incubated with cumulus oocyte complex (COC) in vitro. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009, 145, 167-171.	0.5	7
78	Combination of swim-up and density gradient separation methods effectively eliminate DNA damaged sperm. <i>Journal of the Turkish German Gynecology Association</i> , 2011, 12, 148-152.	0.2	7
79	Design and Microwave Assisted Synthesis of Coumarin Derivatives as PDE Inhibitors. <i>International Journal of Medicinal Chemistry</i> , 2016, 2016, 1-16.	2.2	7
80	Ethambutol induces testicular damage and decreases the sperm functional competence in Swiss albino mice. <i>Environmental Toxicology and Pharmacology</i> , 2016, 47, 28-37.	2.0	7
81	Organophosphorus pesticide quinalphos (Ekalux 25 E.C.) reduces sperm functional competence and decreases the fertilisation potential in Swiss albino mice. <i>Andrologia</i> , 2021, 53, e14115.	1.0	7
82	Distinctions in PCOS Induced by Letrozole Vs Dehydroepiandrosterone With High-fat Diet in Mouse Model. <i>Endocrinology</i> , 2022, 163, .	1.4	7
83	Early prepubertal cyclophosphamide exposure in mice results in long-term loss of ovarian reserve, and impaired embryonic development and blastocyst quality. <i>PLoS ONE</i> , 2020, 15, e0235140.	1.1	6
84	Oocytes recovered after ovarian tissue slow freezing have impaired H2AX phosphorylation and functional competence. <i>Reproduction, Fertility and Development</i> , 2015, 27, 1242.	0.1	5
85	Sperm-derived factors enhance the <i>in vitro</i> developmental potential of haploid parthenotes. <i>Zygote</i> , 2017, 25, 697-710.	0.5	5
86	Exposure to first line anti-tuberculosis drugs in prepubertal age reduces the quality and functional competence of spermatozoa and oocytes in Swiss albino mice. <i>Environmental Toxicology and Pharmacology</i> , 2020, 73, 103292.	2.0	5
87	Germinal stage vitrification is superior to MII stage vitrification in prepubertal mouse oocytes. <i>Cryobiology</i> , 2020, 93, 49-55.	0.3	5
88	Plasma protein thiols, ceruloplasmin, C-reactive protein and red blood cell acetylcholinesterase in patients undergoing intrauterine insemination. <i>Journal of Human Reproductive Sciences</i> , 2009, 2, 27.	0.4	4
89	Haploid parthenotes express differential response to <i>in vitro</i> exposure of ammonia compared to normally fertilized embryos. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 88-93.	1.0	4
90	Sperm-mediated DNA lesions alter metabolite levels in spent embryo culture medium. <i>Reproduction, Fertility and Development</i> , 2019, 31, 443.	0.1	4

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91	Antidiabetic drug metformin affects the developmental competence of cleavage-stage embryos. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 1227-1238.	1.2	4
92	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. <i>Journal of Human Reproductive Sciences</i> , 2010, 3, 8.	0.4	3
93	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. <i>European Journal of Medicinal Chemistry</i> , 2016, 121, 221-231.	2.6	3
94	Quinoline Derivative Enhances Human Sperm Motility and Improves the Functional Competence. <i>Reproductive Sciences</i> , 2021, 28, 1316-1332.	1.1	3
95	Impact of Temperature and Time Interval Prior to Immature Testicular-Tissue Organotypic Culture on Cellular Niche. <i>Reproductive Sciences</i> , 2021, 28, 2161-2173.	1.1	3
96	Controlled cooling versus rapid freezing of teratozoospermic semen samples: Impact on sperm chromatin integrity. <i>Journal of Human Reproductive Sciences</i> , 2011, 4, 121.	0.4	2
97	In situ viability detection assays induce heat-shock protein 70 expression in spermatozoa without affecting the chromatin integrity. <i>Andrologia</i> , 2014, 47, n/a-n/a.	1.0	2
98	Artificial Activation of Murine Oocytes Using Strontium to Derive Haploid and Diploid Parthenotes. <i>Methods in Molecular Biology</i> , 2022, 2429, 15-26.	0.4	2
99	Sperm characteristics in normal and abnormal ejaculates are differently influenced by the length of ejaculatory abstinence. <i>Andrology</i> , 2022, 10, 1351-1360.	1.9	2
100	Advancing or postponing the day of human chorionic gonadotropin does not matter for the outcome in assisted reproductive technology. <i>Journal of Human Reproductive Sciences</i> , 2014, 7, 107.	0.4	1
101	Liposome-encapsulated diacylglycerol and Inositol triphosphate induce delayed oocyte activation and poor development of parthenotes. <i>Journal of the Turkish German Gynecology Association</i> , 2017, 18, 102-109.	0.2	1
102	Stage-specific response in early mouse embryos exposed to prednisolone in vitro. <i>Journal of Endocrinology</i> , 2021, 248, 237-247.	1.2	1
103	Lack of an Association Between Sperm Head Abnormality and DNA Damage by Alkaline Comet Assay. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2018, 88, 1345-1350.	0.4	0
104	Hanudatta S. Atreya (1974â€“2020). <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 201-212.	1.1	0
105	Duration of dry and humidified incubation of single-step embryo culture medium and oxygen tension during sham culture do not alter metabolomics signature. <i>F1000Research</i> , 0, 11, 242.	0.8	0
106	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. <i>Frontiers in Endocrinology</i> , 2022, 13, 854297.	1.5	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. <i>F1000Research</i> , 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.. <i>F1000Research</i> , 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