

Andrew J Wyrobek

List of Publications by Year in descending order

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79
papers

6,111
citations

70961

41
h-index

71532

76
g-index

83
all docs

83
docs citations

83
times ranked

5366
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of male age on semen quality and fertility: a review of the literature. <i>Fertility and Sterility</i> , 2001, 75, 237-248.	0.5	587
2	An evaluation of the mouse sperm morphology test and other sperm tests in nonhuman mammals. <i>Mutation Research - Reviews in Genetic Toxicology</i> , 1983, 115, 1-72.	3.0	354
3	Basal Subtype and MAPK/ERK Kinase (MEK)-Phosphoinositide 3-Kinase Feedback Signaling Determine Susceptibility of Breast Cancer Cells to MEK Inhibition. <i>Cancer Research</i> , 2009, 69, 565-572.	0.4	340
4	Smoking cigarettes is associated with increased sperm disomy in teenage men ¹¹ This manuscript has been reviewed in accordance with the policy of the National Health and Environmental Effects Research Laboratory, U.S. Environmental Protection Agency, and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for their use. ⁸⁸ This study was perf. <i>Fertility and Sterility</i> , 1998, 70, 715-723.	0.5	232
5	Chemotherapy induces transient sex chromosomal and autosomal aneuploidy in human sperm. <i>Nature Genetics</i> , 1997, 16, 74-78.	9.4	221
6	DNA packaging in mouse spermatids. <i>Experimental Cell Research</i> , 1984, 150, 298-308.	1.2	219
7	The observed human sperm mutation frequency cannot explain the achondroplasia paternal age effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14952-14957.	3.3	175
8	An evaluation of human sperm as indicators of chemically induced alterations of spermatogenic function. <i>Mutation Research - Reviews in Genetic Toxicology</i> , 1983, 115, 73-148.	3.0	164
9	The Paternal-Age Effect in Apert Syndrome Is Due, in Part, to the Increased Frequency of Mutations in Sperm. <i>American Journal of Human Genetics</i> , 2003, 73, 939-947.	2.6	164
10	Candidate protein biosensors of human exposure to ionizing radiation. <i>International Journal of Radiation Biology</i> , 2006, 82, 605-639.	1.0	150
11	Molecular Distinctions between Stasis and Telomere Attrition Senescence Barriers Shown by Long-term Culture of Normal Human Mammary Epithelial Cells. <i>Cancer Research</i> , 2009, 69, 7557-7568.	0.4	144
12	Fluorescence In situ hybridization to Y chromosomes in decondensed human sperm nuclei. <i>Molecular Reproduction and Development</i> , 1990, 27, 200-208.	1.0	136
13	Effects of male age on the frequencies of germinal and heritable chromosomal abnormalities in humans and rodents. <i>Fertility and Sterility</i> , 2004, 81, 925-943.	0.5	134
14	Temporal Global Changes in Gene Expression during Temperature Transition in <i>Yersinia pestis</i> . <i>Journal of Bacteriology</i> , 2004, 186, 6298-6305.	1.0	132
15	Low-Dose Irradiation Alters the Transcript Profiles of Human Lymphoblastoid Cells Including Genes Associated with Cytogenetic Radioadaptive Response. <i>Radiation Research</i> , 2005, 164, 369-382.	0.7	125
16	Exon-Level Microarray Analyses Identify Alternative Splicing Programs in Breast Cancer. <i>Molecular Cancer Research</i> , 2010, 8, 961-974.	1.5	121
17	Frequency of XY Sperm Increases with Age in Fathers of Boys with Klinefelter Syndrome. <i>American Journal of Human Genetics</i> , 2001, 69, 1046-1054.	2.6	116
18	Mechanisms and consequences of paternally-transmitted chromosomal abnormalities. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2005, 75, 112-129.	3.6	116

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19	Methods and concepts in detecting abnormal reproductive outcomes of paternal origin. <i>Reproductive Toxicology</i> , 1993, 7, 3-16.	1.3	113
20	Early Brain Response to Low-Dose Radiation Exposure Involves Molecular Networks and Pathways Associated with Cognitive Functions, Advanced Aging and Alzheimer's Disease. <i>Radiation Research</i> , 2009, 171, 53-65.	0.7	110
21	Integrating New Tests of Sperm Genetic Integrity into Semen Analysis: Breakout Group Discussion. <i>Advances in Experimental Medicine and Biology</i> , 2003, 518, 253-268.	0.8	103
22	Effect of Antioxidant Intake on Sperm Chromatin Stability in Healthy Nonsmoking Men. <i>Journal of Andrology</i> , 2005, 26, 550-556.	2.0	97
23	Meiotic Segregation, Recombination, and Gamete Aneuploidy Assessed in a t(1;10)(p22.1;q22.3) Reciprocal Translocation Carrier by Three- and Four-Probe Multicolor FISH in Sperm. <i>American Journal of Human Genetics</i> , 1997, 61, 651-659.	2.6	92
24	Detection of sex chromosomal aneuploidies X-X, Y-Y, and X-Y in human sperm using two-chromosome fluorescence in situ hybridization. <i>American Journal of Medical Genetics Part A</i> , 1994, 53, 1-7.	2.4	79
25	Quantification and classification of human sperm morphology by computer-assisted image analysis. <i>Fertility and Sterility</i> , 1988, 50, 142-152.	0.5	73
26	A study of the effect of perchloroethylene exposure on semen quality in dry cleaning workers. <i>American Journal of Industrial Medicine</i> , 1991, 20, 575-591.	1.0	72
27	DNA Repair and Cell Cycle Biomarkers of Radiation Exposure and Inflammation Stress in Human Blood. <i>PLoS ONE</i> , 2012, 7, e48619.	1.1	71
28	Paternally Transmitted Chromosomal Aberrations in Mouse Zygotes Determine Their Embryonic Fate ¹ . <i>Biology of Reproduction</i> , 2004, 70, 616-624.	1.2	65
29	Relative Susceptibilities of Male Germ Cells to Genetic Defects Induced by Cancer Chemotherapies. <i>Journal of the National Cancer Institute Monographs</i> , 2005, 2005, 31-35.	0.9	64
30	The effect of chemotherapy on the in vivo frequency of glycophorin A α^0 variant erythrocytes. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1990, 240, 165-175.	1.2	62
31	Simultaneous detection of structural and numerical chromosome abnormalities in sperm of healthy men by multicolor fluorescence in situ hybridization. <i>Human Genetics</i> , 1996, 98, 608-615.	1.8	59
32	DNA repair decline during mouse spermiogenesis results in the accumulation of heritable DNA damage. <i>DNA Repair</i> , 2008, 7, 572-581.	1.3	59
33	Multicolor FISH Analysis of Chromosomal Breaks, Duplications, Deletions, and Numerical Abnormalities in the Sperm of Healthy Men. <i>American Journal of Human Genetics</i> , 2000, 67, 862-872.	2.6	55
34	Micronutrients intake is associated with improved sperm DNA quality in older men. <i>Fertility and Sterility</i> , 2012, 98, 1130-1137.e1.	0.5	55
35	NOVP chemotherapy for Hodgkin's disease transiently induces sperm aneuploidies associated with the major clinical aneuploidy syndromes involving chromosomes X, Y, 18, and 21. <i>Cancer Research</i> , 2003, 63, 44-51.	0.4	55
36	Meiotic interstrand DNA damage escapes paternal repair and causes chromosomal aberrations in the zygote by maternal misrepair. <i>Scientific Reports</i> , 2015, 5, 7689.	1.6	53

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37	Occupational Exposure to Benzene and Chromosomal Structural Aberrations in the Sperm of Chinese Men. <i>Environmental Health Perspectives</i> , 2012, 120, 229-234.	2.8	51
38	Elemental composition of human semen is associated with motility and genomic sperm defects among older men. <i>Human Reproduction</i> , 2013, 28, 274-282.	0.4	48
39	Benzene Exposure Near the U.S. Permissible Limit Is Associated with Sperm Aneuploidy. <i>Environmental Health Perspectives</i> , 2010, 118, 833-839.	2.8	45
40	Stable Variants of Sperm Aneuploidy among Healthy Men Show Associations between Germinal and Somatic Aneuploidy. <i>American Journal of Human Genetics</i> , 2002, 70, 1507-1519.	2.6	44
41	Frequency of human sperm carrying structural aberrations of chromosome 1 increases with advancing age. <i>Fertility and Sterility</i> , 2007, 87, 1077-1086.	0.5	43
42	A study of the effect of perchloroethylene exposure on the reproductive outcomes of wives of dry-cleaning workers. <i>American Journal of Industrial Medicine</i> , 1991, 20, 593-600.	1.0	42
43	Etoposide induces chromosomal abnormalities in mouse spermatocytes and stem cell spermatogonia. <i>Human Reproduction</i> , 2006, 21, 888-895.	0.4	41
44	Long-term infertility and dominant lethal mutations in male mice treated with adriamycin. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1985, 152, 53-65.	0.4	37
45	Induction of chromosomal aberrations in mouse zygotes by acrylamide treatment of male germ cells and their correlation with dominant lethality and heritable translocations. , 1997, 30, 410-417.		37
46	Absence of Selection Against Aneuploid Mouse Sperm at Fertilization ¹ . <i>Biology of Reproduction</i> , 1999, 61, 948-954.	1.2	37
47	Impaired Spatial Memory Performance in Adult Wistar Rats Exposed to Low (5 \times 20 cGy) Doses of 1 GeV/n ⁵⁶ Fe Particles. <i>Radiation Research</i> , 2016, 185, 332-337.	0.7	37
48	Nanosensor dosimetry of mouse blood proteins after exposure to ionizing radiation. <i>Scientific Reports</i> , 2013, 3, 2234.	1.6	36
49	Cross-species sperm-FISH assays for chemical testing and assessing paternal risk for chromosomally abnormal pregnancies. <i>Environmental and Molecular Mutagenesis</i> , 2005, 45, 271-283.	0.9	35
50	Active Sperm Production after Cancer Chemotherapy with Doxorubicin. <i>Journal of Urology</i> , 1983, 130, 927-930.	0.2	33
51	Numerical Chromosomal Abnormalities in Rat Epididymal Spermatozoa Following Chronic Cyclophosphamide Exposure. <i>Biology of Reproduction</i> , 2003, 69, 1150-1157.	1.2	31
52	A systems analysis of the chemosensitivity of breast cancer cells to the polyamine analogue PG-11047. <i>BMC Medicine</i> , 2009, 7, 77.	2.3	31
53	Temporary effects of AMSA (4 \times (9-acridinylamino) methanesulfon-m-anisidide) chemotherapy on spermatogenesis. <i>Cancer</i> , 1982, 49, 2459-2462.	2.0	30
54	Differential basal expression of genes associated with stress response, damage control, and DNA repair among mouse tissues. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2004, 561, 1-14.	0.9	30

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55	Genetic Differences in Transcript Responses to Low-Dose Ionizing Radiation Identify Tissue Functions Associated with Breast Cancer Susceptibility. PLoS ONE, 2012, 7, e45394.	1.1	28
56	Micronuclei and developmental abnormalities in 4-day mouse embryos after paternal treatment with acrylamide. , 1998, 31, 206-217.		26
57	The expression of Troponin T1 gene is induced by ketamine in adult mouse brain. Brain Research, 2007, 1174, 7-17.	1.1	26
58	Adaptive response induction and variation in human lymphoblastoid cell lines. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2002, 519, 15-24.	0.9	25
59	Quantification of mammalian sperm morphology by slit-scan flow cytometry. Cytometry, 1982, 2, 344-349.	1.8	25
60	Paternally inherited chromosomal structural aberrations detected in mouse first-cleavage zygote metaphases by multicolour fluorescence in situ hybridization painting. Chromosome Research, 1996, 4, 604-613.	1.0	23
61	Individual variations in dose response for spatial memory learning among outbred wistar rats exposed from 5 to 20 cGy of ⁵⁶ Fe particles. Environmental and Molecular Mutagenesis, 2016, 57, 331-340.	0.9	23
62	A new FISH assay to simultaneously detect structural and numerical chromosomal abnormalities in mouse sperm. Molecular Reproduction and Development, 2003, 66, 172-180.	1.0	19
63	An interferon signature identified by RNA-sequencing of mammary tissues varies across the estrous cycle and is predictive of metastasis-free survival. Oncotarget, 2014, 5, 4011-4025.	0.8	19
64	Monoclonal Antibodies to Human Protamines. Hybridoma, 1987, 6, 293-303.	0.9	18
65	Spatial Memory Performance of Socially Mature Wistar Rats is Impaired after Exposure to Low (5 cGy) Doses of 1 GeV/n ⁴⁸ Ti Particles. Radiation Research, 2017, 187, 60-65.	0.7	18
66	Germ cell studies in mice after prolonged exposure to nitrous oxide. Toxicology and Applied Pharmacology, 1983, 67, 370-375.	1.3	13
67	Chromosomal Mosaicism in Mouse Two-Cell Embryos after Paternal Exposure to Acrylamide. Toxicological Sciences, 2009, 107, 194-205.	1.4	12
68	Molecular stress response in the CNS of mice after systemic exposure to interferon- β , ionizing radiation and ketamine. NeuroToxicology, 2009, 30, 261-268.	1.4	12
69	CENP-B is not critical for meiotic chromosome segregation in male mice. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2002, 513, 197-203.	0.9	11
70	Impaired fertility in T-stock female mice after superovulation. Reproduction, 2004, 128, 573-581.	1.1	10
71	Advances in the automated detection of metaphase chromosomes labeled with fluorescence dyes. Cytometry, 1998, 33, 10-18.	1.8	8
72	<title>Groundtruth approach to accurate quantitation of fluorescence microarrays</title>. , 2001, , .		8

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73	Paint/DAPI Analysis of Mouse Zygotes to Detect Paternally Transmitted Chromosomal Aberrations. <i>Advances in Experimental Medicine and Biology</i> , 2003, 518, 131-145.	0.8	8
74	A father of four consecutive trisomic pregnancies with elevated frequencies of associated aneuploid sperm. <i>American Journal of Medical Genetics, Part A</i> , 2006, 140A, 1840-1845.	0.7	7
75	Methods and Concepts in Detecting Abnormal Reproductive Outcomes of Paternal Origin. , 1994, , 1-21.		5
76	Meiotic susceptibility for induction of sperm with chromosomal aberrations in patients receiving combination chemotherapy for Hodgkin lymphoma. <i>PLoS ONE</i> , 2020, 15, e0242218.	1.1	2
77	Laboratory Methods for the Detection of Chromosomal Structural Aberrations in Human and Mouse Sperm by Fluorescence In Situ Hybridization. <i>Methods in Molecular Biology</i> , 2008, 410, 241-272.	0.4	1
78	Human sperm-FISH for identifying potential paternal risk factors for chromosomally abnormal reproductive outcomes. , 2005, , .		0
79	Methods for Evaluating the Effects of Environmental Chemicals on Human Spermatogenesis. , 1985, , 427-440.		0