

Douglas M Ruden

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

14,778
citations

101496

36
h-index

48277

88
g-index

103
all docs

103
docs citations

103
times ranked

31776
citing authors

#	ARTICLE	IF	CITATIONS
1	A program for annotating and predicting the effects of single nucleotide polymorphisms, SnpEff. <i>Fly</i> , 2012, 6, 80-92.	0.9	8,643
2	Using <i>Drosophila melanogaster</i> as a Model for Genotoxic Chemical Mutational Studies with a New Program, SnpSift. <i>Frontiers in Genetics</i> , 2012, 3, 35.	1.1	754
3	Ten Putative Contributors to the Obesity Epidemic. <i>Critical Reviews in Food Science and Nutrition</i> , 2009, 49, 868-913.	5.4	576
4	Putative contributors to the secular increase in obesity: exploring the roads less traveled. <i>International Journal of Obesity</i> , 2006, 30, 1585-1594.	1.6	515
5	Evidence for an epigenetic mechanism by which Hsp90 acts as a capacitor for morphological evolution. <i>Nature Genetics</i> , 2003, 33, 70-74.	9.4	393
6	Sequences required for in vitro transcriptional activation of a <i>Drosophila</i> hsp 70 gene. <i>Cell</i> , 1985, 42, 527-537.	13.5	310
7	Generating yeast transcriptional activators containing no yeast protein sequences. <i>Nature</i> , 1991, 350, 250-252.	13.7	186
8	An Examination of the Association of Selected Toxic Metals with Total and Central Obesity Indices: NHANES 99-02. <i>International Journal of Environmental Research and Public Health</i> , 2010, 7, 3332-3347.	1.2	178
9	Hypothesis: Environmental regulation of 5-hydroxymethylcytosine by oxidative stress. <i>Epigenetics</i> , 2011, 6, 853-856.	1.3	145
10	Identification of Epigenetically Altered Genes in Sporadic Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2012, 7, e52672.	1.1	132
11	Multigenerational epigenetic inheritance in humans: DNA methylation changes associated with maternal exposure to lead can be transmitted to the grandchildren. <i>Scientific Reports</i> , 2015, 5, 14466.	1.6	129
12	Size-Dependent Toxicity of Gold Nanoparticles on Human Embryonic Stem Cells and Their Neural Derivatives. <i>Small</i> , 2016, 12, 631-646.	5.2	127
13	Hsp90 and environmental impacts on epigenetic states: a model for the trans-generational effects of diethylstilbesterol on uterine development and cancer. <i>Human Molecular Genetics</i> , 2005, 14, R149-R155.	1.4	123
14	PKD2 Cation Channel Is Required for Directional Sperm Movement and Male Fertility. <i>Current Biology</i> , 2003, 13, 2175-2178.	1.8	118
15	Epigenetics of early-life lead exposure and effects on brain development. <i>Epigenomics</i> , 2012, 4, 665-674.	1.0	110
16	Lead Exposure Disrupts Global DNA Methylation in Human Embryonic Stem Cells and Alters Their Neuronal Differentiation. <i>Toxicological Sciences</i> , 2014, 139, 142-161.	1.4	110
17	Radiation-induced epigenetic DNA methylation modification of radiation-response pathways. <i>Epigenetics</i> , 2013, 8, 839-848.	1.3	109
18	Hsp90 inhibitors and drug resistance in cancer: The potential benefits of combination therapies of Hsp90 inhibitors and other anti-cancer drugs. <i>Biochemical Pharmacology</i> , 2012, 83, 995-1004.	2.0	105

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19	Epigenome-Microbiome crosstalk: A potential new paradigm influencing neonatal susceptibility to disease. <i>Epigenetics</i> , 2016, 11, 205-215.	1.3	105
20	Phthalate Exposure and Long-Term Epigenomic Consequences: A Review. <i>Frontiers in Genetics</i> , 2020, 11, 405.	1.1	102
21	CloudAligner: A fast and full-featured MapReduce based tool for sequence mapping. <i>BMC Research Notes</i> , 2011, 4, 171.	0.6	95
22	Endocrine Disruptors and Obesity: An Examination of Selected Persistent Organic Pollutants in the NHANES 1999-2002 Data. <i>International Journal of Environmental Research and Public Health</i> , 2010, 7, 2988-3005.	1.2	85
23	Behavioral Effects of Chronic Exposure to Low Levels of Lead in <i>Drosophila melanogaster</i> . <i>NeuroToxicology</i> , 2003, 24, 435-442.	1.4	82
24	Early life lead exposure causes gender-specific changes in the DNA methylation profile of DNA extracted from dried blood spots. <i>Epigenomics</i> , 2015, 7, 379-393.	1.0	81
25	Waddington's widget: Hsp90 and the inheritance of acquired characters. <i>Seminars in Cell and Developmental Biology</i> , 2003, 14, 301-310.	2.3	75
26	Hsp90 Affecting Chromatin Remodeling Might Explain Transgenerational Epigenetic Inheritance in <i>Drosophila</i> . <i>Current Genomics</i> , 2008, 9, 500-508.	0.7	75
27	Intronic Non-CG DNA hydroxymethylation and alternative mRNA splicing in honey bees. <i>BMC Genomics</i> , 2013, 14, 666.	1.2	62
28	Lead exposure induces changes in 5-hydroxymethylcytosine clusters in CpG islands in human embryonic stem cells and umbilical cord blood. <i>Epigenetics</i> , 2015, 10, 607-621.	1.3	62
29	No strict alignment is required between a transcriptional activator binding site and the "TATA box" of a yeast gene.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 4262-4266.	3.3	61
30	The Role of Epigenetics in Evolution: The Extended Synthesis. <i>Genetics Research International</i> , 2012, 2012, 1-3.	2.0	60
31	Effectiveness of Hsp90 Inhibitors as Anti-Cancer Drugs. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006, 6, 1137-1143.	1.1	53
32	ADrosophilaKinesin-like Protein, Klp38B, Functions during Meiosis, Mitosis, and Segmentation. <i>Developmental Biology</i> , 1997, 191, 284-296.	0.9	47
33	Single-Cell RNA Sequencing of the Cardiovascular System: New Looks for Old Diseases. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 173.	1.1	47
34	Membrane Fusion Proteins Are Required for oskar mRNA Localization in the <i>Drosophila</i> Egg Chamber. <i>Developmental Biology</i> , 2000, 218, 314-325.	0.9	46
35	DROSOPHILANUTRIGENOMICS CAN PROVIDE CLUES TO HUMAN GENE-NUTRIENT INTERACTIONS. <i>Annual Review of Nutrition</i> , 2005, 25, 499-522.	4.3	45
36	Genetical toxicogenomics in <i>Drosophila</i> identifies master-modulatory loci that are regulated by developmental exposure to lead. <i>NeuroToxicology</i> , 2009, 30, 898-914.	1.4	45

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37	Drosophila Pkd2 Is Haploid-insufficient for Mediating Optimal Smooth Muscle Contractility. <i>Journal of Biological Chemistry</i> , 2004, 279, 14225-14231.	1.6	38
38	Low Molecular Weight Heparin Ablates Lung Cancer Cisplatin-Resistance by Inducing Proteasome-Mediated ABCG2 Protein Degradation. <i>PLoS ONE</i> , 2012, 7, e41035.	1.1	37
39	The inebri-actometer: a device for measuring the locomotor activity of <i>Drosophila</i> exposed to ethanol vapor. <i>Journal of Neuroscience Methods</i> , 2001, 107, 93-99.	1.3	35
40	Mammalian Models of Traumatic Brain Injury and a Place for <i>Drosophila</i> in TBI Research. <i>Frontiers in Neuroscience</i> , 2019, 13, 409.	1.4	33
41	Variations at a quantitative trait locus (QTL) affect development of behavior in lead-exposed <i>Drosophila melanogaster</i> . <i>NeuroToxicology</i> , 2009, 30, 305-311.	1.4	29
42	Chronic lead exposure induces cochlear oxidative stress and potentiates noise-induced hearing loss. <i>Toxicology Letters</i> , 2018, 292, 175-180.	0.4	29
43	Accumulation, elimination, sequestration, and genetic variation of lead (Pb ²⁺) loads within and between generations of <i>Drosophila melanogaster</i> . <i>Chemosphere</i> , 2017, 181, 368-375.	4.2	28
44	Genetic aspects of behavioral neurotoxicology. <i>NeuroToxicology</i> , 2009, 30, 741-753.	1.4	27
45	Smooth, an hnRNP-L Homolog, Might Decrease Mitochondrial Metabolism by Post-Transcriptional Regulation of Isocitrate Dehydrogenase (Idh) and Other Metabolic Genes in the Sub-Acute Phase of Traumatic Brain Injury. <i>Frontiers in Genetics</i> , 2017, 8, 175.	1.1	27
46	Activating regions of yeast transcription factors must have both acidic and hydrophobic amino acids. <i>Chromosoma</i> , 1992, 101, 342-348.	1.0	25
47	<i>Drosophila melanogaster</i> as a model for lead neurotoxicology and toxicogenomics research. <i>Frontiers in Genetics</i> , 2012, 3, 68.	1.1	25
48	Chromatin effects in nutrition, cancer, and obesity. <i>Nutrition</i> , 2004, 20, 56-62.	1.1	24
49	Mapping Quantitative Trait Loci Affecting Variation in <i>Drosophila</i> Triacylglycerol Storage. <i>Obesity</i> , 2005, 13, 1596-1605.	4.0	24
50	Chronic lead exposure alters presynaptic calcium regulation and synaptic facilitation in <i>Drosophila</i> larvae. <i>NeuroToxicology</i> , 2009, 30, 777-784.	1.4	23
51	Effects of Gravity, Microgravity or Microgravity Simulation on Early Mammalian Development. <i>Stem Cells and Development</i> , 2018, 27, 1230-1236.	1.1	23
52	A Review of Volatile Organic Compound Contamination in Post-Industrial Urban Centers: Reproductive Health Implications Using a Detroit Lens. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8755.	1.2	22
53	The EDGE hypothesis: Epigenetically directed genetic errors in repeat-containing proteins (RCPs) involved in evolution, neuroendocrine signaling, and cancer. <i>Frontiers in Neuroendocrinology</i> , 2008, 29, 428-444.	2.5	20
54	Identification of Splicing Quantitative Trait Loci (sQTL) in <i>Drosophila melanogaster</i> with Developmental Lead (Pb ²⁺) Exposure. <i>Frontiers in Genetics</i> , 2017, 8, 145.	1.1	20

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55	Possible Effects of Early Treatments of Hsp90 Inhibitors on Preventing the Evolution of Drug Resistance to Other Anti-Cancer Drugs. <i>Current Medicinal Chemistry</i> , 2007, 14, 223-232.	1.2	18
56	Multigenerational Selection and Detection of Altered Histone Acetylation and Methylation Patterns: Toward a Quantitative Epigenetics in <i>Drosophila</i> . , 2004, 287, 151-168.		17
57	Epigenetic Regulation of Trinucleotide Repeat Expansions and Contractions and the Biased Embryos Hypothesis for Rapid Morphological Evolution. <i>Current Genomics</i> , 2005, 6, 145-155.	0.7	17
58	<i>Drosophila</i> Exhibit Divergent Sex-Based Responses in Transcription and Motor Function After Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2020, 11, 511.	1.1	17
59	Methods for Nutrigenomics and Longevity Studies in <i>Drosophila</i> . <i>Methods in Molecular Biology</i> , 2007, 371, 111-141.	0.4	14
60	A Bioinformatics-Based Alternative mRNA Splicing Code that May Explain Some Disease Mutations Is Conserved in Animals. <i>Frontiers in Genetics</i> , 2017, 8, 38.	1.1	14
61	Massively parallel resequencing of the isogenic <i>Drosophila melanogaster</i> strain w1118; iso-2; iso-3 identifies hotspots for mutations in sensory perception genes. <i>Fly</i> , 2009, 3, 192-204.	0.9	13
62	Prenatal phthalate exposures and autism spectrum disorder symptoms in low-risk children. <i>Neurotoxicology and Teratology</i> , 2021, 83, 106947.	1.2	13
63	Evolutionary conservation of metabolism explains how <i>Drosophila</i> nutrigenomics can help us understand human nutrigenomics. <i>Genes and Nutrition</i> , 2006, 1, 75-83.	1.2	12
64	The (new) new synthesis and epigenetic capacitors of morphological evolution. <i>Nature Genetics</i> , 2011, 43, 88-89.	9.4	12
65	Personalized medicine and quantitative trait transcripts. <i>Nature Genetics</i> , 2007, 39, 144-145.	9.4	11
66	Inhibiting Mitochondrial Cytochrome c Oxidase Downregulates Gene Transcription After Traumatic Brain Injury in <i>Drosophila</i> . <i>Frontiers in Physiology</i> , 2021, 12, 628777.	1.3	10
67	The Distinct Immune Nature of the Fetal Inflammatory Response Syndrome Type I and Type II. <i>ImmunoHorizons</i> , 2021, 5, 735-751.	0.8	10
68	Hsp90 Inhibitors and the Reduction of Anti-Cancer Drug Resistance by Non-Genetic and Genetic Mechanisms. <i>Pharmaceuticals</i> , 2012, 5, 890-898.	1.7	9
69	Lead Modulates trans- and cis-Expression Quantitative Trait Loci (eQTLs) in <i>Drosophila melanogaster</i> Heads. <i>Frontiers in Genetics</i> , 2018, 9, 395.	1.1	9
70	Prenatal Exposures to Common Phthalates and Prevalent Phthalate Alternatives and Infant DNA Methylation at Birth. <i>Frontiers in Genetics</i> , 2022, 13, 793278.	1.1	9
71	Epigenetics as an answer to Darwin's "special difficulty" Part 2: natural selection of metastable epialleles in honeybee castes. <i>Frontiers in Genetics</i> , 2015, 6, 60.	1.1	8
72	Stress Decreases Host Viral Resistance and Increases Covid Susceptibility in Embryonic Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 2164-2177.	1.7	8

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73	Introduction to serial reviews on EpRE and its signaling pathway. <i>Free Radical Biology and Medicine</i> , 2004, 36, 1197-1198.	1.3	7
74	Percutaneous Fine-Needle 5% Ethanol-Cisplatin Intratumoral Injection Combined with Second-Line Chemotherapy Improves On the Standard of Care in Patients with Platinum-Pretreated Stage IV Non-Small Cell Lung Cancer. <i>Translational Oncology</i> , 2014, 7, 303-308.	1.7	7
75	Integrating 5hmC and gene expression data to infer regulatory mechanisms. <i>Bioinformatics</i> , 2018, 34, 1441-1447.	1.8	7
76	DNA methylation and exposure to violence among African American young adult males. <i>Brain, Behavior, & Immunity - Health</i> , 2021, 14, 100247.	1.3	7
77	Identification of <i>Schizosaccharomyces pombe</i> transcription factor PGA4, which binds cooperatively to <i>Saccharomyces cerevisiae</i> GAL4-binding sites.. <i>Molecular and Cellular Biology</i> , 1990, 10, 1432-1438.	1.1	6
78	Cisplatin in 5% Ethanol Eradicates Cisplatin-Resistant Lung Tumor by Killing Lung Cancer Side Population (SP) Cells and Non-SP Cells. <i>Frontiers in Genetics</i> , 2013, 4, 163.	1.1	6
79	Frontiers in Toxicogenomics in the Twenty-First Century—the Grand Challenge: To Understand How the Genome and Epigenome Interact with the Toxic Environment at the Single-Cell, Whole-Organism, and Multi-Generational Level. <i>Frontiers in Genetics</i> , 2017, 8, 173.	1.1	6
80	A Novel Follicle-Cell-Dependent Dominant Female Sterile Allele, StarKojak, Alters Receptor Tyrosine Kinase Signaling in <i>Drosophila</i> . <i>Developmental Biology</i> , 1999, 207, 393-407.	0.9	5
81	Frontiers in Toxicogenomics – The Grand Challenge: To Understand How the Genome and Epigenome Interact with the Toxic Environment. <i>Frontiers in Genetics</i> , 2011, 2, 12.	1.1	5
82	Potential Long-Term Consequences of Fad Diets on Health, Cancer, and Longevity: Lessons Learned from Model Organism Studies. <i>Technology in Cancer Research and Treatment</i> , 2007, 6, 247-254.	0.8	4
83	Sex-Differences in Traumatic Brain Injury in the Absence of Tau in <i>Drosophila</i> . <i>Genes</i> , 2021, 12, 917.	1.0	4
84	Using Live Imaging and Fucci Embryonic Stem Cells to Rank DevTox Risks: Adverse Growth Effects of PFOA Compared With DEP Are 26 Times Faster, 1,000 Times More Sensitive, and 13 Times Greater in Magnitude. <i>Frontiers in Toxicology</i> , 2021, 3, 709747.	1.6	4
85	Using Live Imaging and Fluorescence Ubiquitinated Cell Cycle Indicator Embryonic Stem Cells to Distinguish G1 Cell Cycle Delays for General Stressors like Perfluoro-Octanoic Acid and Hyperosmotic Sorbitol or G2 Cell Cycle Delay for Mutagenic Stressors like Benzo(a)pyrene. <i>Stem Cells and Development</i> , 2022, 31, 296-310.	1.1	3
86	Intratumoral injection of cisplatin in various concentrations of ethanol for cisplatin-resistant lung tumors. <i>Molecular and Clinical Oncology</i> , 2014, 2, 491-496.	0.4	2
87	IL-10: A possible immunobiological component of positive mental health in refugees. <i>Comprehensive Psychoneuroendocrinology</i> , 2021, 8, 100097.	0.7	2
88	Editorial [Hot Topic: Mini Hot Topic Title: Epigenetic Regulatory Mechanisms in Cancer, Development, and Evolution (Guest Editor: Douglas M. Ruden)]. <i>Current Genomics</i> , 2005, 6, 127-127.	0.7	1
89	Transgenerational Epigenetic Inheritance in <i>Drosophila</i> . <i>Epigenetics and Human Health</i> , 2013, , 227-244.	0.2	1
90	Personalized nutrigenomics: tailoring the diet to the aging diabetes population. <i>Nutrition and Dietary Supplements</i> , 0, , 31.	0.7	0

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91	Innovative high throughput screen in embryonic stem cells reports stress-forced imbalanced differentiation, important to analyze stress in IVF and drug development; analyses using bulk and single cell RNAseq. Fertility and Sterility, 2019, 112, e292.	0.5	0
92	PHTHALATES AND HYPEROSMOTIC STRESS FORCE LOSS OF GROWTH AND PROGRESSION PAST G1 PHASE IN FUCCI EMBRYONIC STEM CELLS. Fertility and Sterility, 2020, 114, e346.	0.5	0
93	SIMILAR TO RETINOIC ACID, HYPEROSMOTIC STRESS INDUCES EXPRESSION OF A 2-CELL LIKE SUBSET OF PLURIPOTENT STEM CELLS WHILE ALSO INDUCING A SUBSET OF DIFFERENTIATED 1st LINEAGE CELLS. Fertility and Sterility, 2020, 114, e352.	0.5	0
94	STRESS-FORCES EMBRYONIC STEM CELLS TO INCREASE EXPRESSION OF HEPATITIS A AND HERPES SIMPLEX 1 VIRUS RECEPTORS AND TWO GENES NECESSARY FOR COVID-19 UPTAKE. Fertility and Sterility, 2020, 114, e217.	0.5	0
95	USING LIVE IMAGING AND FUCCI ESC TO DISTINGUISH G1 CELL CYCLE DELAYS FOR GENERAL STRESSORS LIKE BPA OR G2 CELL CYCLE DELAY FOR MUTAGENIC STRESSORS LIKE BENZO(A)PYRENE. Fertility and Sterility, 2021, 116, e423.	0.5	0
96	USING LIVE IMAGING AND FUCCI ESC TO PROVIDE DIRENESS AND STIMULATION INDICES THAT REPORT THAT PFOA HAS GREATER ADVERSE EFFECTS THAN THE PHTHALATE DEP. Fertility and Sterility, 2021, 116, e330.	0.5	0
97	Epigenetics, Environment, and Evolution. , 2008, , 241-260.		0
98	Abstract 4349: Therapeutic radiation induces an epigenetic DNA methylation response. , 2012, , .		0
99	Hsp90 as a Capacitor of Both Genetic and Epigenetic Changes in the Genome During Cancer Progression and Evolution. , 2013, , 79-101.		0
100	Abstract 4742: The influence of cellular developmental state on response to therapeutics in glioblastoma. , 2019, , .		0