

# Daniel A Rappolee

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,713  
citations

331670

21  
h-index

276875

41  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1367  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel method for studying mRNA phenotypes in single or small numbers of cells. <i>Journal of Cellular Biochemistry</i> , 1989, 39, 1-11.	2.6	373
2	FGF Is an Essential Regulator of the Fifth Cell Division in Preimplantation Mouse Embryos. <i>Developmental Biology</i> , 1998, 198, 105-115.	2.0	108
3	Phthalate Exposure and Long-Term Epigenomic Consequences: A Review. <i>Frontiers in Genetics</i> , 2020, 11, 405.	2.3	102
4	Pipetting causes shear stress and elevation of phosphorylated stress-activated protein kinase/jun kinase in preimplantation embryos. <i>Molecular Reproduction and Development</i> , 2007, 74, 1287-1294.	2.0	92
5	Entire mitogen activated protein kinase (MAPK) pathway is present in preimplantation mouse embryos. <i>Developmental Dynamics</i> , 2004, 231, 72-87.	1.8	71
6	Increases in phosphorylation of SAPK/JNK and p38MAPK correlate negatively with mouse embryo development after culture in different media. <i>Fertility and Sterility</i> , 2005, 83, 1144-1154.	1.0	70
7	Molecular Biology of the Stress Response in the Early Embryo and its Stem Cells. <i>Advances in Experimental Medicine and Biology</i> , 2015, 843, 77-128.	1.6	70
8	Expression of SRY transcripts in preimplantation human embryos. <i>American Journal of Medical Genetics Part A</i> , 1995, 55, 80-84.	2.4	67
9	Hepatocyte Growth Factor and Its Receptor Are Expressed in Cardiac Myocytes During Early Cardiogenesis. <i>Circulation Research</i> , 1996, 78, 1028-1036.	4.5	62
10	Using hyperosmolar stress to measure biologic and stress-activated protein kinase responses in preimplantation embryos. <i>Molecular Human Reproduction</i> , 2007, 13, 473-481.	2.8	53
11	Expression of fibroblast growth factor receptors in peri-implantation mouse embryos. <i>Molecular Reproduction and Development</i> , 1998, 51, 254-264.	2.0	44
12	Hypoxic stress induces, but cannot sustain trophoblast stem cell differentiation to labyrinthine placenta due to mitochondrial insufficiency. <i>Stem Cell Research</i> , 2014, 13, 478-491.	0.7	42
13	CoQ10 increases mitochondrial mass and polarization, ATP and Oct4 potency levels, and bovine oocyte MII during IVM while decreasing AMPK activity and oocyte death. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 1595-1607.	2.5	36
14	Benzopyrene and Experimental Stressors Cause Compensatory Differentiation in Placental Trophoblast Stem Cells. <i>Systems Biology in Reproductive Medicine</i> , 2010, 56, 168-183.	2.1	34
15	Stress Induces AMPK-Dependent Loss of Potency Factors Id2 and Cdx2 in Early Embryos and Stem Cells. <i>Stem Cells and Development</i> , 2013, 22, 1564-1575.	2.1	32
16	It's not just baby's babble/Babel: Recent progress in understanding the language of early mammalian development: A minireview. <i>Molecular Reproduction and Development</i> , 1999, 52, 234-240.	2.0	28
17	Impact of transient stress and stress enzymes on development. <i>Developmental Biology</i> , 2007, 304, 1-8.	2.0	27
18	Eomesodermin, HAND1, and CSH1 proteins are induced by cellular stress in a stress-activated protein kinase-dependent manner. <i>Molecular Reproduction and Development</i> , 2011, 78, 519-528.	2.0	26

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19	Comparison of 2, 5, and 20% O <sub>2</sub> on the development of post-thaw human embryos. <i>Journal of Assisted Reproduction and Genetics</i> , 2016, 33, 919-927.	2.5	24
20	A Major Effect of Simulated Microgravity on Several Stages of Preimplantation Mouse Development is Lethality Associated With Elevated Phosphorylated SAPK/JNK. <i>Reproductive Sciences</i> , 2009, 16, 947-959.	2.5	23
21	Effects of Gravity, Microgravity or Microgravity Simulation on Early Mammalian Development. <i>Stem Cells and Development</i> , 2018, 27, 1230-1236.	2.1	23
22	Stress-Induced Enzyme Activation Primes Murine Embryonic Stem Cells to Differentiate Toward the First Extraembryonic Lineage. <i>Stem Cells and Development</i> , 2014, 23, 3049-3064.	2.1	22
23	Six post-implantation lethal knockouts of genes for lipophilic MAPK pathway proteins are expressed in preimplantation mouse embryos and trophoblast stem cells. <i>Molecular Reproduction and Development</i> , 2005, 71, 1-11.	2.0	21
24	Acquisition of essential somatic cell cycle regulatory protein expression and implied activity occurs at the second to third cell division in mouse preimplantation embryos. <i>FEBS Letters</i> , 2005, 579, 398-408.	2.8	21
25	Hypoxic Stress Forces Irreversible Differentiation of a Majority of Mouse Trophoblast Stem Cells Despite FGF4. <i>Biology of Reproduction</i> , 2016, 95, 110-110.	2.7	21
26	Serine-threonine kinases and transcription factors active in signal transduction are detected at high levels of phosphorylation during mitosis in preimplantation embryos and trophoblast stem cells. <i>Reproduction</i> , 2004, 128, 643-654.	2.6	19
27	Toxic stress prioritizes and imbalances stem cell differentiation: implications for new biomarkers and <i>in vitro</i> toxicology tests. <i>Systems Biology in Reproductive Medicine</i> , 2012, 58, 33-40.	2.1	19
28	SAPK $\beta$ /JNK1 and SAPK $\alpha$ /JNK2 mRNA transcripts are expressed in early gestation human placenta and mouse eggs, preimplantation embryos, and trophoblast stem cells. <i>Fertility and Sterility</i> , 2004, 82, 1140-1148.	1.0	17
29	Stress Forces First Lineage Differentiation of Mouse Embryonic Stem Cells; Validation of a High-Throughput Screen for Toxicant Stress. <i>Stem Cells and Development</i> , 2019, 28, 101-113.	2.1	15
30	FGF is an essential regulator of the fifth cell division in preimplantation mouse embryos. <i>Developmental Biology</i> , 1998, 198, 105-115.	2.0	15
31	Insulin receptor substrate-1 is expressed at high levels in all cells of the peri-implantation mouse embryo. <i>Molecular Reproduction and Development</i> , 1998, 49, 386-393.	2.0	14
32	Adaptive and Pathogenic Responses to Stress by Stem Cells during Development. <i>Cells</i> , 2012, 1, 1197-1224.	4.1	14
33	Commonly used fertility drugs, a diet supplement, and stress force AMPK-dependent block of stemness and development in cultured mammalian embryos. <i>Journal of Assisted Reproduction and Genetics</i> , 2016, 33, 1027-1039.	2.5	14
34	Development and Validation of a Rex1-RFP Potency Activity Reporter Assay That Quantifies Stress-Forced Potency Loss in Mouse Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2016, 25, 320-328.	2.1	14
35	Hypoxic Stress Forces Adaptive and Maladaptive Placental Stress Responses in Early Pregnancy. <i>Birth Defects Research</i> , 2017, 109, 1330-1344.	1.5	14
36	Departure from optimal O <sub>2</sub> level for mouse trophoblast stem cell proliferation and potency leads to most rapid AMPK activation. <i>Journal of Reproduction and Development</i> , 2017, 63, 87-94.	1.4	12

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37	Using stem cell oxygen physiology to optimize blastocyst culture while minimizing hypoxic stress. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 1251-1259.	2.5	10
38	Two-cell embryos are more sensitive than blastocysts to AMPK-dependent suppression of anabolism and stemness by commonly used fertility drugs, a diet supplement, and stress. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 1609-1617.	2.5	9
39	Why AMPK agonists not known to be stressors may surprisingly contribute to miscarriage or hinder IVF/ART. <i>Journal of Assisted Reproduction and Genetics</i> , 2018, 35, 1359-1366.	2.5	9
40	High-Throughput Screens for Embryonic Stem Cells: Stress-Forced Potency-Stemness Loss Enables Toxicological Assays. <i>Methods in Pharmacology and Toxicology</i> , 2016, , 279-312.	0.2	8
41	Stress Decreases Host Viral Resistance and Increases Covid Susceptibility in Embryonic Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 2164-2177.	3.8	8
42	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.	3.1	4
43	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.	2.1	3
44	Cell Signaling. , 2009, , 89-104.		1
45	Direct reprogramming to multipotent trophoblast stem cells, and is pluripotency needed for regenerative medicine either?. <i>Stem Cell Investigation</i> , 2016, 3, 24-24.	3.0	1
46	Expression of fibroblast growth factor receptors in peri-implantation mouse embryos. , 1998, 51, 254.		1
47	Nature or nurture or both? Potential use of both DNA copy number and epigenetics in assessing the human blastocyst. <i>Fertility and Sterility</i> , 2021, 115, 1441-1442.	1.0	0