

Raymond B Runyan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

4,732
citations

33
h-index

68
g-index

88
ext. papers

5,324
ext. citations

5.2
avg, IF

5.15
L-index

#	Paper	IF	Citations
80	Guidelines and definitions for research on epithelial-mesenchymal transition. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 341-352	48.7	469
79	Requirement of type III TGF-beta receptor for endocardial cell transformation in the heart. <i>Science</i> , 1999 , 283, 2080-2	33.3	341
78	Cell biology of cardiac cushion development. <i>International Review of Cytology</i> , 2005 , 243, 287-335		279
77	Epithelial-mesenchymal cell transformation in the embryonic heart can be mediated, in part, by transforming growth factor beta. <i>Developmental Biology</i> , 1989 , 134, 392-401	3.1	247
76	Temporal and distinct TGFbeta ligand requirements during mouse and avian endocardial cushion morphogenesis. <i>Developmental Biology</i> , 2002 , 248, 170-81	3.1	242
75	Epithelial-mesenchymal transformation of embryonic cardiac endothelial cells is inhibited by a modified antisense oligodeoxynucleotide to transforming growth factor beta 3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 1516-20	11.5	231
74	Invasion of mesenchyme into three-dimensional collagen gels: a regional and temporal analysis of interaction in embryonic heart tissue. <i>Developmental Biology</i> , 1983 , 95, 108-14	3.1	229
73	Morphogenetic mechanisms of epithelial tubulogenesis: MDCK cell polarity is transiently rearranged without loss of cell-cell contact during scatter factor/hepatocyte growth factor-induced tubulogenesis. <i>Developmental Biology</i> , 1998 , 204, 64-79	3.1	193
72	TGFbeta2 and TGFbeta3 have separate and sequential activities during epithelial-mesenchymal cell transformation in the embryonic heart. <i>Developmental Biology</i> , 1999 , 208, 530-45	3.1	187
71	Slug is an essential target of TGFbeta2 signaling in the developing chicken heart. <i>Developmental Biology</i> , 2000 , 223, 91-102	3.1	145
70	Expression of complete keratin filaments in mouse L cells augments cell migration and invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 4261-5	11.5	144
69	Protein extracts from early embryonic hearts initiate cardiac endothelial cytodifferentiation. <i>Developmental Biology</i> , 1985 , 112, 414-26	3.1	122
68	Multiple transforming growth factor-beta isoforms and receptors function during epithelial-mesenchymal cell transformation in the embryonic heart. <i>Cells Tissues Organs</i> , 2007 , 185, 146-56	2.1	119
67	Antibodies to the Type II TGFbeta receptor block cell activation and migration during atrioventricular cushion transformation in the heart. <i>Developmental Biology</i> , 1996 , 174, 248-57	3.1	117
66	Evidence for a novel enzymatic mechanism of neural crest cell migration on extracellular glycoconjugate matrices. <i>Journal of Cell Biology</i> , 1986 , 102, 432-41	7.3	112
65	Functionally distinct laminin receptors mediate cell adhesion and spreading: the requirement for surface galactosyltransferase in cell spreading. <i>Journal of Cell Biology</i> , 1988 , 107, 1863-71	7.3	108
64	Ligand-specific function of transforming growth factor beta in epithelial-mesenchymal transition in heart development. <i>Developmental Dynamics</i> , 2009 , 238, 431-42	2.9	93

63	Sense and antisense TGF beta 3 mRNA levels correlate with cardiac valve induction. <i>Developmental Dynamics</i> , 1992 , 193, 340-5	2.9	70
62	Transforming growth factor beta signaling in adult cardiovascular diseases and repair. <i>Cell and Tissue Research</i> , 2012 , 347, 203-23	4.2	69
61	TGF-beta 3-mediated tissue interaction during embryonic heart development. <i>Molecular Reproduction and Development</i> , 1992 , 32, 152-9	2.6	68
60	TGF beta-mediated RhoA expression is necessary for epithelial-mesenchymal transition in the embryonic chick heart. <i>Developmental Dynamics</i> , 2006 , 235, 1589-98	2.9	64
59	Frzb modulates Wnt-9a-mediated beta-catenin signaling during avian atrioventricular cardiac cushion development. <i>Developmental Biology</i> , 2005 , 278, 35-48	3.1	63
58	Slug is a mediator of epithelial-mesenchymal cell transformation in the developing chicken heart. <i>Developmental Biology</i> , 1999 , 212, 243-54	3.1	63
57	Endoglin and Alk5 regulate epithelial-mesenchymal transformation during cardiac valve formation. <i>Developmental Biology</i> , 2007 , 304, 420-32	3.1	58
56	Epithelial-mesenchymal transformation in the embryonic heart is mediated through distinct pertussis toxin-sensitive and TGFbeta signal transduction mechanisms. <i>Developmental Dynamics</i> , 1999 , 214, 81-91	2.9	51
55	A comparison of fibronectin, laminin, and galactosyltransferase adhesion mechanisms during embryonic cardiac mesenchymal cell migration in vitro. <i>Developmental Biology</i> , 1990 , 140, 401-12	3.1	49
54	Trichloroethylene inhibits development of embryonic heart valve precursors in vitro. <i>Toxicological Sciences</i> , 2000 , 53, 109-17	4.4	44
53	Differential growth and multicellular villi direct proepicardial translocation to the developing mouse heart. <i>Developmental Dynamics</i> , 2008 , 237, 145-52	2.9	42
52	TGFbeta Type III and TGFbeta Type II receptors have distinct activities during epithelial-mesenchymal cell transformation in the embryonic heart. <i>Developmental Dynamics</i> , 2001 , 221, 454-9	2.9	42
51	Dynamic Myofibrillar Remodeling in Live Cardiomyocytes under Static Stretch. <i>Scientific Reports</i> , 2016 , 6, 20674	4.9	35
50	Trichloroethylene effects on gene expression during cardiac development. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2003 , 67, 488-95		33
49	Mechanisms of cell transformation in the embryonic heart. <i>Annals of the New York Academy of Sciences</i> , 1995 , 752, 317-30	6.5	33
48	Mesenchymal stem cell-cardiomyocyte interactions under defined contact modes on laser-patterned biochips. <i>PLoS ONE</i> , 2013 , 8, e56554	3.7	33
47	Biochip-based study of unidirectional mitochondrial transfer from stem cells to myocytes via tunneling nanotubes. <i>Biofabrication</i> , 2016 , 8, 015012	10.5	32
46	Cell surface galactosyltransferase as a recognition molecule during development. <i>Molecular and Cellular Biochemistry</i> , 1986 , 72, 141-51	4.2	32

45	Latrophilin-2 is a novel component of the epithelial-mesenchymal transition within the atrioventricular canal of the embryonic chicken heart. <i>Developmental Dynamics</i> , 2006 , 235, 3213-21	2.9	30
44	Myosin filament assembly onto myofibrils in live neonatal cardiomyocytes observed by TPEF-SHG microscopy. <i>Cardiovascular Research</i> , 2013 , 97, 262-70	9.9	26
43	Gene expression profiling in the fetal cardiac tissue after folate and low-dose trichloroethylene exposure. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2010 , 88, 111-27		26
42	Trichloroethylene disrupts cardiac gene expression and calcium homeostasis in rat myocytes. <i>Toxicological Sciences</i> , 2008 , 104, 135-43	4.4	25
41	Laser patterning for the study of MSC cardiogenic differentiation at the single-cell level. <i>Light: Science and Applications</i> , 2013 , 2,	16.7	24
40	A freeze-fracture study of avian epiphyseal cartilage differentiation. <i>The Anatomical Record</i> , 1981 , 199, 449-57		24
39	Exposure to low-dose trichloroethylene alters shear stress gene expression and function in the developing chick heart. <i>Cardiovascular Toxicology</i> , 2010 , 10, 100-7	3.4	23
38	TGF-beta1, -beta2 and -beta3 cooperate to facilitate tubulogenesis in the explanted quail heart. <i>Journal of Vascular Research</i> , 2004 , 41, 491-8	1.9	23
37	Production of the transforming growth factor-beta binding protein endoglin is regulated during chick heart development. <i>Developmental Dynamics</i> , 1998 , 213, 237-47	2.9	20
36	Low-dose trichloroethylene alters cytochrome P450-2C subfamily expression in the developing chick heart. <i>Cardiovascular Toxicology</i> , 2013 , 13, 77-84	3.4	18
35	Olfactomedin-1 activity identifies a cell invasion checkpoint during epithelial-mesenchymal transition in the chick embryonic heart. <i>DMM Disease Models and Mechanisms</i> , 2013 , 6, 632-42	4.1	18
34	Endosomal regulation of contact inhibition through the AMOT:YAP pathway. <i>Molecular Biology of the Cell</i> , 2015 , 26, 2673-84	3.5	16
33	Collagen gel analysis of epithelial-mesenchymal transition in the embryo heart: an in vitro model system for the analysis of tissue interaction, signal transduction, and environmental effects. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2011 , 93, 298-311		14
32	Arsenic exposure perturbs epithelial-mesenchymal cell transition and gene expression in a collagen gel assay. <i>Toxicological Sciences</i> , 2010 , 116, 273-85	4.4	14
31	Correlation of freeze-fracture and scanning electron microscopy of epiphyseal chondrocytes. <i>Calcified Tissue Research</i> , 1978 , 26, 237-41		14
30	COMP Gene Coexpresses With EMT Genes and Is Associated With Poor Survival in Colon Cancer Patients. <i>Journal of Surgical Research</i> , 2019 , 233, 297-303	2.5	14
29	Effects of trichloroethylene and its metabolite trichloroacetic acid on the expression of vimentin in the rat H9c2 cell line. <i>Cell Biology and Toxicology</i> , 2005 , 21, 83-95	7.4	13
28	Runx2-1 is an Early Regulator of Epithelial-Mesenchymal Cell Transition in the Chick Embryo. <i>Developmental Dynamics</i> , 2018 , 247, 542-554	2.9	12

27	Purification and characterization of avian beta 1,4 galactosyltransferase: comparison with the mammalian enzyme. <i>Glycobiology</i> , 1991 , 1, 211-21	5.8	12
26	Phosphodiesterase 9a Inhibition in Mouse Models of Diastolic Dysfunction. <i>Circulation: Heart Failure</i> , 2020 , 13, e006609	7.6	11
25	An in situ demonstration of self-recognition in gorgonians. <i>Developmental and Comparative Immunology</i> , 1979 , 3, 591-7	3.2	11
24	Trichloroethylene perturbs HNF4a expression and activity in the developing chick heart. <i>Toxicology Letters</i> , 2018 , 285, 113-120	4.4	8
23	Molecular Regulation of Cushion Morphogenesis 2010 , 363-387		8
22	Utilization of antisense oligodeoxynucleotides with embryonic tissues in culture. <i>Methods</i> , 1999 , 18, 316-21	4.6	8
21	Tissue Interaction and Signal Transduction in the Atrioventricular Canal of the Embryonic Hearta. <i>Annals of the New York Academy of Sciences</i> , 1990 , 588, 442-443	6.5	8
20	Cardiac Regeneration in the Human Left Ventricle After CorMatrix Implantation. <i>Annals of Thoracic Surgery</i> , 2017 , 104, e239-e241	2.7	5
19	Clinical outcomes meta-analysis: measuring subendocardial perfusion and efficacy of transmyocardial laser revascularization with nuclear imaging. <i>Journal of Cardiothoracic Surgery</i> , 2017 , 12, 37	1.6	5
18	Changes in the crystallographic structures of cardiac myosin filaments detected by polarization-dependent second harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2019 , 10, 3183-3195	3.5	4
17	Adipose-derived human stem/stromal cells: comparative organ specific mitochondrial bioenergy profiles. <i>SpringerPlus</i> , 2016 , 5, 2057		4
16	Study of the Expression Transition of Cardiac Myosin Using Polarization-Dependent SHG Microscopy. <i>Biophysical Journal</i> , 2020 , 118, 1058-1066	2.9	3
15	Letter to the Editor. <i>Birth Defects Research</i> , 2019 , 111, 1234-1236	2.9	3
14	4D imaging of embryonic chick hearts by streak-mode Fourier domain optical coherence tomography 2012 ,		3
13	PROTEINS OF THE EMBRYONIC EXTRACELLULAR MATRIX: REGIONAL AND TEMPORAL CORRELATION WITH TISSUE INTERACTION IN THE HEART11Supported by NIH grant HL-19136 to R.R.M. 1982 , 153-157		3
12	Epithelial-Mesenchymal Transformation in the Embryonic Heart 2005 , 40-55		3
11	Remodeling an infarcted heart: novel hybrid treatment with transmyocardial revascularization and stem cell therapy. <i>SpringerPlus</i> , 2016 , 5, 738		2
10	Improved metabolism and redox state with a novel preservation solution: implications for donor lungs after cardiac death (DCD). <i>Pulmonary Circulation</i> , 2017 , 7, 494-504	2.7	2

9	Transfection of cells attached to selected cell based biosensor surfaces. <i>Life Sciences</i> , 2007 , 80, 1395-402.8	2
8	Environmental Sensitivity to Trichloroethylene (TCE) in the Developing Heart. <i>Molecular and Integrative Toxicology</i> , 2014 , 153-169	0.5 2
7	HNF4a transcription is a target of trichloroethylene toxicity in the embryonic mouse heart. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 824-832	4.3 1
6	Indium tin oxide electrodes for cell-based biosensors	1
5	Cartilage Oligomeric Matrix Protein, COMP may be a Better Prognostic Marker Than CEACAM5 and Correlates With Colon Cancer Molecular Subtypes, Tumor Aggressiveness and Overall Survival. <i>Journal of Surgical Research</i> , 2021 , 270, 169-177	2.5 1
4	Remodeling Failing Human Myocardium With Hybrid Cell/Matrix and Transmyocardial Revascularization. <i>ASAIO Journal</i> , 2018 , 64, e130-e133	3.6 1
3	Transforming Growth Factor- β Signal Transduction in the Atrioventricular Canal During Heart Development 2001 , 201-219	1
2	A dual therapy of off-pump temporary left ventricular extracorporeal device and amniotic stem cell for cardiogenic shock. <i>Journal of Cardiothoracic Surgery</i> , 2017 , 12, 80	1.6 0
1	Out of the desert: the 4th TEMTIA Meeting on new advances in development, fibrosis and cancer. <i>Cells Tissues Organs</i> , 2011 , 193, 4-7	2.1 0