Raymond B Runyan

List of Publications by Year
in descending order

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87 papers	5,965 citations	117453 34 h-index	76769 74 g-index
88 all docs	88 docs citations	88 times ranked	5473 citing authors

#	Article	IF	Citations
1	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. Journal of Surgical Research, 2022, 270, 169-177.	0.8	4
2	Phosphodiesterase 9a Inhibition in Mouse Models of Diastolic Dysfunction. Circulation: Heart Failure, 2020, 13, e006609.	1.6	23
3	HNF4a transcription is a target of trichloroethylene toxicity in the embryonic mouse heart. Environmental Sciences: Processes and Impacts, 2020, 22, 824-832.	1.7	1
4	Study of the Expression Transition of Cardiac Myosin Using Polarization-Dependent SHG Microscopy. Biophysical Journal, 2020, 118, 1058-1066.	0.2	6
5	Guidelines and definitions for research on epithelialâ€“mesenchymal transition. Nature Reviews Molecular Cell Biology, 2020, 21, 341-352.	16.1	1,195
6	Letter to the Editor. Birth Defects Research, 2019, 111, 1234-1236.	0.8	3
7	COMP Gene Coexpresses With EMT Genes and Is Associated With Poor Survival in Colon Cancer Patients. Journal of Surgical Research, 2019, 233, 297-303.	0.8	24
8	Changes in the crystallographic structures of cardiac myosin filaments detected by polarization-dependent second harmonic generation microscopy. Biomedical Optics Express, 2019, 10, 3183.	1.5	8
9	Epithelialâ€“mesenchymal transition and plasticity in the developmental basis of cancer and fibrosis. Developmental Dynamics, 2018, 247, 330-331.	0.8	9
10	Trichloroethylene perturbs HNF4a expression and activity in the developing chick heart. Toxicology Letters, 2018, 285, 113-120.	0.4	11
11	Runx2â€ł is an Early Regulator of Epithelialâ€“Mesenchymal Cell Transition in the Chick Embryo. Developmental Dynamics, 2018, 247, 542-554.	0.8	18
12	Remodeling Failing Human Myocardium With Hybrid Cell/Matrix and Transmyocardial Revascularization. ASAIO Journal, 2018, 64, e130-e133.	0.9	4
13	Cardiac Regeneration in the Human Left Ventricle After CorMatrix Implantation. Annals of Thoracic Surgery, 2017, 104, e239-e241.	0.7	7
14	Improved metabolism and redox state with a novel preservation solution: implications for donor lungs after cardiac death (DCD). Pulmonary Circulation, 2017, 7, 494-504.	0.8	2
15	Clinical outcomes meta-analysis: measuring subendocardial perfusion and efficacy of transmyocardial laser revascularization with nuclear imaging. Journal of Cardiothoracic Surgery, 2017, 12, 37.	0.4	7
16	Pre-Clinical Ex Vivo Human Recellularization of Acellular Porcine Hearts. Journal of the American College of Surgeons, 2017, 225, S202-S203.	0.2	0
17	A dual therapy of off-pump temporary left ventricular extracorporeal device and amniotic stem cell for cardiogenic shock. Journal of Cardiothoracic Surgery, 2017, 12, 80.	0.4	2
18	Dynamic Myofibrillar Remodeling in Live Cardiomyocytes under Static Stretch. Scientific Reports, 2016, 6, 20674.	1.6	47

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19	Adipose-derived human stem/stromal cells: comparative organ specific mitochondrial bioenergy profiles. SpringerPlus, 2016, 5, 2057.	1.2	6
20	Remodeling an infarcted heart: novel hybrid treatment with transmyocardial revascularization and stem cell therapy. SpringerPlus, 2016, 5, 738.	1.2	4
21	Biochip-based study of unidirectional mitochondrial transfer from stem cells to myocytes via tunneling nanotubes. Biofabrication, 2016, 8, 015012.	3.7	43
22	Endosomal regulation of contact inhibition through the AMOT:YAP pathway. Molecular Biology of the Cell, 2015, 26, 2673-2684.	0.9	20
23	Environmental Sensitivity to Trichloroethylene (TCE) in the Developing Heart. Molecular and Integrative Toxicology, 2014, , 153-169.	0.5	2
24	Abstract 17277: Myocardial Rescue by Mesenchymal Stem Cell via Tunneling Nanotube Formation. Circulation, 2014, 130, .	1.6	0
25	Low-Dose Trichloroethylene Alters Cytochrome P450-2C Subfamily Expression in the Developing Chick Heart. Cardiovascular Toxicology, 2013, 13, 77-84.	1.1	19
26	4D display of the outflow track of embryonic-chick hearts (HH 14-19) using a high speed streak mode OCT. , 2013, , .		0
27	Olfactomedin-1 activity identifies a cell invasion checkpoint during epithelial-mesenchymal transition in the embryonic heart. DMM Disease Models and Mechanisms, 2013, 6, 632-42.	1.2	19
28	Myosin filament assembly onto myofibrils in live neonatal cardiomyocytes observed by TPEF-SHG microscopy. Cardiovascular Research, 2013, 97, 262-270.	1.8	30
29	Disassembly of myofibrils in adult cardiomyocytes during dedifferentiation. , 2013, , .		2
30	Laser patterning for the study of MSC cardiogenic differentiation at the single-cell level. Light: Science and Applications, 2013, 2, e68-e68.	7.7	35
31	Mesenchymal Stem Cell-Cardiomyocyte Interactions under Defined Contact Modes on Laser-Patterned Biochips. PLoS ONE, 2013, 8, e56554.	1.1	36
32	4D imaging of embryonic chick hearts by streak-mode Fourier domain optical coherence tomography. , 2012, , .		3
33	Doppler streak mode Fourier domain optical coherence tomography. , 2012, , .		0
34	Transforming growth factor beta signaling in adult cardiovascular diseases and repair. Cell and Tissue Research, 2012, 347, 203-223.	1.5	85
35	Collagen gel analysis of epithelialâ€“mesenchymal transition in the embryo heart: An in vitro model system for the analysis of tissue interaction, signal transduction, and environmental effects. Birth Defects Research Part C: Embryo Today Reviews, 2011, 93, 298-311.	3.6	16
36	Out of the Desert: The 4th TEMTIA Meeting on New Advances in Development, Fibrosis and Cancer. Cells Tissues Organs, 2011, 193, 4-7.	1.3	1

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37	Exposure to Low-Dose Trichloroethylene Alters Shear Stress Gene Expression and Function in the Developing Chick Heart. Cardiovascular Toxicology, 2010, 10, 100-107.	1.1	25
38	Gene expression profiling in the fetal cardiac tissue after folate and lowâ€dose trichloroethylene exposure. Birth Defects Research Part A: Clinical and Molecular Teratology, 2010, 88, 111-127.	1.6	29
39	Arsenic Exposure Perturbs Epithelial-Mesenchymal Cell Transition and Gene Expression In a Collagen Gel Assay. Toxicological Sciences, 2010, 116, 273-285.	1.4	17
40	Molecular Regulation of Cushion Morphogenesis. , 2010, , 363-387.		11
41	Ligandâ€specific function of transforming growth factor <i>beta</i> in epithelialâ€mesenchymal transition in heart development. Developmental Dynamics, 2009, 238, 431-442.	0.8	113
42	Differential growth and multicellular villi direct proepicardial translocation to the developing mouse heart. Developmental Dynamics, 2008, 237, 145-152.	0.8	52
43	Trichloroethylene Disrupts Cardiac Gene Expression and Calcium Homeostasis in Rat Myocytes. Toxicological Sciences, 2008, 104, 135-143.	1.4	27
44	Endoglin and Alk5 regulate epithelialâ€“mesenchymal transformation during cardiac valve formation. Developmental Biology, 2007, 304, 420-432.	0.9	64
45	Transfection of cells attached to selected cell based biosensor surfaces. Life Sciences, 2007, 80, 1395-1402.	2.0	2
46	Multiple Transforming Growth Factor-Î² Isoforms and Receptors Function during Epithelial-Mesenchymal Cell Transformation in the Embryonic Heart. Cells Tissues Organs, 2007, 185, 146-156.	1.3	133
47	TGFÎ²-mediated RhoA expression is necessary for epithelial-mesenchymal transition in the embryonic chick heart. Developmental Dynamics, 2006, 235, 1589-1598.	0.8	70
48	Latrophilin-2 is a novel component of the epithelial-mesenchymal transition within the atrioventricular canal of the embryonic chicken heart. Developmental Dynamics, 2006, 235, 3213-3221.	0.8	40
49	Effects of trichloroethylene and its metabolite trichloroacetic acid on the expression of vimentin in the rat H9c2 cell line. Cell Biology and Toxicology, 2005, 21, 83-95.	2.4	13
50	Frzb modulates Wnt-9a-mediated Î²-catenin signaling during avian atrioventricular cardiac cushion development. Developmental Biology, 2005, 278, 35-48.	0.9	71
51	Cell Biology of Cardiac Cushion Development. International Review of Cytology, 2005, 243, 287-335.	6.2	316
52	Epithelial-Mesenchymal Transformation in the Embryonic Heart. , 2005, , 40-55.		7
53	TGF-Î²₁, -Î²₂ and -Î²₃ Cooperate to Facilitate Tubulogenesis in the Explanted Quail Heart. Journal of Vascular Research, 2004, 41, 491-498.	0.6	26
54	Trichloroethylene effects on gene expression during cardiac development. Birth Defects Research Part A: Clinical and Molecular Teratology, 2003, 67, 488-495.	1.6	34

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55	Temporal and Distinct TGFÎ² Ligand Requirements during Mouse and Avian Endocardial Cushion Morphogenesis. Developmental Biology, 2002, 248, 170-181.	0.9	262
56	Formation of the Heart and Its Regulation. Cardiovascular Molecular Morphogenesis. Edited by RobertÂJÂ Tomanek and, RaymondÂBÂ Runyan; Foreword by, EdwardÂBÂ Clark. Boston (Massachusetts): BirkhÃuser. DM 320. xv + 276 p + 8 pl; ill.; index. ISBN: 0â€"8176â€"4216â€"1. 2001.. Quarterly Review of Biology, 2002, 77, 491-491.	0.0	0
57	TGF? Type III and TGF? Type II receptors have distinct activities during epithelial-mesenchymal cell transformation in the embryonic heart. Developmental Dynamics, 2001, 221, 454-459.	0.8	45
58	Transforming Growth Factor-Î² Signal Transduction in the Atrioventricular Canal During Heart Development. , 2001, , 201-219.		1
59	Trichloroethylene Inhibits Development of Embryonic Heart Valve Precursors in Vitro. Toxicological Sciences, 2000, 53, 109-117.	1.4	46
60	Slug is an Essential Target of TGFÎ²2 Signaling in the Developing Chicken Heart. Developmental Biology, 2000, 223, 91-102.	0.9	164
61	Epithelial-mesenchymal transformation in the embryonic heart is mediated through distinct pertussis toxin-sensitive and TGF? signal transduction mechanisms. , 1999, 214, 81-91.		55
62	Requirement of Type III TGF- Receptor for Endocardial Cell Transformation in the Heart. Science, 1999, 283, 2080-2082.	6.0	361
63	Utilization of Antisense Oligodeoxynucleotides with Embryonic Tissues in Culture. Methods, 1999, 18, 316-321.	1.9	9
64	TGFÎ²2 and TGFÎ²3 Have Separate and Sequential Activities during Epithelialâ€"Mesenchymal Cell Transformation in the Embryonic Heart. Developmental Biology, 1999, 208, 530-545.	0.9	196
65	Slug Is a Mediator of Epithelialâ€"Mesenchymal Cell Transformation in the Developing Chicken Heart. Developmental Biology, 1999, 212, 243-254.	0.9	69
66	Production of the transforming growth factor-Î² binding protein endoglin is regulated during chick heart development. , 1998, 213, 237-247.		22
67	Morphogenetic Mechanisms of Epithelial Tubulogenesis: MDCK Cell Polarity Is Transiently Rearranged without Loss of Cellâ€"Cell Contact during Scatter Factor/Hepatocyte Growth Factor-Induced Tubulogenesis. Developmental Biology, 1998, 204, 64-79.	0.9	204
68	Antibodies to the Type II TGFÎ² Receptor Block Cell Activation and Migration during Atrioventricular Cushion Transformation in the Heart. Developmental Biology, 1996, 174, 248-257.	0.9	123
69	Mechanisms of Cell Transformation in the Embryonic Heart. Annals of the New York Academy of Sciences, 1995, 752, 317-330.	1.8	35
70	Expression of complete keratin filaments in mouse L cells augments cell migration and invasion.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 4261-4265.	3.3	156
71	TGF-?3-Mediated tissue interaction during embryonic heart development. Molecular Reproduction and Development, 1992, 32, 152-159.	1.0	72
72	Sense and antisense TGFÎ²3 mRNA levels correlate with cardiac valve induction. Developmental Dynamics, 1992, 193, 340-345.	0.8	75

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73	Epithelial-mesenchymal transformation of embryonic cardiac endothelial cells is inhibited by a modified antisense oligodeoxynucleotide to transforming growth factor beta 3.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1516-1520.	3.3	243
74	Purification and characterization of avian Î²1,4 galactosyltransferase: comparison with the mammalian enzyme. Glycobiology, 1991, 1, 211-221.	1.3	12
75	Tissue Interaction and Signal Transduction in the Atrioventricular Canal of the Embryonic Heart. Annals of the New York Academy of Sciences, 1990, 588, 442-443.	1.8	8
76	A comparison of fibronectin, laminin, and galactosyltransferase adhesion mechanisms during embryonic cardiac mesenchymal cell migration in vitro. Developmental Biology, 1990, 140, 401-412.	0.9	53
77	Epithelial-mesenchymal cell transformation in the embryonic heart can be mediated, in part, by transforming growth factor Î². Developmental Biology, 1989, 134, 392-401.	0.9	275
78	Functionally distinct laminin receptors mediate cell adhesion and spreading: the requirement for surface galactosyltransferase in cell spreading.. Journal of Cell Biology, 1988, 107, 1863-1871.	2.3	120
79	Cell surface galactosyltransferase as a recognition molecule during development. Molecular and Cellular Biochemistry, 1986, 72, 141-51.	1.4	34
80	Evidence for a novel enzymatic mechanism of neural crest cell migration on extracellular glycoconjugate matrices.. Journal of Cell Biology, 1986, 102, 432-441.	2.3	123
81	Protein extracts from early embryonic hearts initiate cardiac endothelial cytodifferentiation. Developmental Biology, 1985, 112, 414-426.	0.9	129
82	Invasion of mesenchyme into three-dimensional collagen gels: A regional and temporal analysis of interaction in embryonic heart tissue. Developmental Biology, 1983, 95, 108-114.	0.9	248
83	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.		4
84	A freeze-fracture study of avian epiphyseal cartilage differentiation. The Anatomical Record, 1981, 199, 449-457.	2.3	29
85	An in situ demonstration of self-recognition in gorgonians. Developmental and Comparative Immunology, 1979, 3, 591-597.	1.0	15
86	Correlation of freeze-fracture and scanning electron microscopy of epiphyseal chondrocytes. Calcified Tissue Research, 1978, 26, 237-241.	1.3	19
87	Indium Tin Oxide Electrodes for Cell-Based Biosensors. , 0, , .		1