

Kenneth R Boheler

List of Publications by Year in descending order

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108
papers

6,255
citations

76326

40
h-index

74163

75
g-index

110
all docs

110
docs citations

110
times ranked

7822
citing authors

#	ARTICLE	IF	CITATIONS
1	Differentiation of Pluripotent Embryonic Stem Cells Into Cardiomyocytes. <i>Circulation Research</i> , 2002, 91, 189-201.	4.5	678
2	Embryonic Stem Cells: Prospects for Developmental Biology and Cell Therapy. <i>Physiological Reviews</i> , 2005, 85, 635-678.	28.8	674
3	A Mass Spectrometric-Derived Cell Surface Protein Atlas. <i>PLoS ONE</i> , 2015, 10, e0121314.	2.5	356
4	AGEMAP: A Gene Expression Database for Aging in Mice. <i>PLoS Genetics</i> , 2007, 3, e201.	3.5	355
5	Embryonic Stem Cells as a Model to Study Cardiac, Skeletal Muscle, and Vascular Smooth Muscle Cell Differentiation. , 2002, 185, 127-156.		172
6	Transcriptome Analysis of Mouse Stem Cells and Early Embryos. <i>PLoS Biology</i> , 2003, 1, e74.	5.6	156
7	Distinct Roles of MicroRNA-1 and -499 in Ventricular Specification and Functional Maturation of Human Embryonic Stem Cell-Derived Cardiomyocytes. <i>PLoS ONE</i> , 2011, 6, e27417.	2.5	153
8	Somatic Stem Cell Marker Promininâ€1/CD133 Is Expressed in Embryonic Stem Cellâ€Derived Progenitors. <i>Stem Cells</i> , 2005, 23, 791-804.	3.2	122
9	The ryanodine receptor modulates the spontaneous beating rate of cardiomyocytes during development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9225-9230.	7.1	114
10	Endothelin-1 Is Involved in Norepinephrine-Induced Ventricular Hypertrophy In Vivo. <i>Circulation</i> , 1996, 93, 2068-2079.	1.6	110
11	SAGE Identification of Gene Transcripts with Profiles Unique to Pluripotent Mouse R1 Embryonic Stem Cells. <i>Genomics</i> , 2002, 79, 169-176.	2.9	107
12	Characterization and expression of the rat heart sarcoplasmic reticulum Ca ²⁺ -ATPase mRNA. <i>FEBS Letters</i> , 1989, 249, 35-41.	2.8	98
13	Physical developmental cues for the maturation of human pluripotent stem cell-derived cardiomyocytes. <i>Stem Cell Research and Therapy</i> , 2014, 5, 117.	5.5	97
14	Sex- and age-dependent human transcriptome variability: Implications for chronic heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2754-2759.	7.1	96
15	B-MYB Is Essential for Normal Cell Cycle Progression and Chromosomal Stability of Embryonic Stem Cells. <i>PLoS ONE</i> , 2008, 3, e2478.	2.5	96
16	Cardiomyocytes purified from differentiated embryonic stem cells exhibit characteristics of early chamber myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 1461-1472.	1.9	92
17	Patterns of Expression of Sarcoplasmic Reticulum Ca ²⁺ -ATPase and Phospholamban mRNAs During Rat Heart Development. <i>Circulation Research</i> , 1995, 76, 616-625.	4.5	92
18	Clenbuterol induces cardiac hypertrophy with normal functional, morphological and molecular features. <i>Cardiovascular Research</i> , 1998, 37, 115-122.	3.8	91

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19	Electrophysiological and contractile function of cardiomyocytes derived from human embryonic stem cells. <i>Progress in Biophysics and Molecular Biology</i> , 2012, 110, 178-195.	2.9	79
20	Molecular mechanisms of cardiomyocyte aging. <i>Clinical Science</i> , 2011, 121, 315-329.	4.3	76
21	A Human Pluripotent Stem Cell Surface N-Glycoproteome Resource Reveals Markers, Extracellular Epitopes, and Drug Targets. <i>Stem Cell Reports</i> , 2014, 3, 185-203.	4.8	73
22	Embryonic stem cells and cardiomyocyte differentiation: phenotypic and molecular analyses. <i>Journal of Cellular and Molecular Medicine</i> , 2005, 9, 804-817.	3.6	72
23	Crucial role of the sarcoplasmic reticulum in the developmental regulation of Ca ²⁺ transients and contraction in cardiomyocytes derived from embryonic stem cells. <i>FASEB Journal</i> , 2006, 20, 181-183.	0.5	71
24	Gene expression in cardiac hypertrophy. <i>Trends in Cardiovascular Medicine</i> , 1992, 2, 176-182.	4.9	68
25	The Mouse C2C12 Myoblast Cell Surface N-Linked Glycoproteome. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 2555-2569.	3.8	68
26	Developmental cues for the maturation of metabolic, electrophysiological and calcium handling properties of human pluripotent stem cell-derived cardiomyocytes. <i>Stem Cell Research and Therapy</i> , 2014, 5, 17.	5.5	67
27	Stem cell pluripotency: A cellular trait that depends on transcription factors, chromatin state and a checkpoint deficient cell cycle. <i>Journal of Cellular Physiology</i> , 2009, 221, 10-17.	4.1	64
28	Cardiac ryanodine receptors control heart rate and rhythmicity in adult mice. <i>Cardiovascular Research</i> , 2012, 96, 372-380.	3.8	64
29	Pharmacological Modulation of Pressure-Overload Cardiac Hypertrophy. <i>Circulation</i> , 1997, 96, 2239-2246.	1.6	62
30	Proteomic Analysis of Human Pluripotent Stem Cell-Derived, Fetal, and Adult Ventricular Cardiomyocytes Reveals Pathways Crucial for Cardiac Metabolism and Maturation. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 427-436.	5.1	61
31	A Cell Surfaceome Map for Immunophenotyping and Sorting Pluripotent Stem Cells. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 303-316.	3.8	58
32	Pluripotency of embryonic stem cells. <i>Cell and Tissue Research</i> , 2008, 331, 5-22.	2.9	56
33	High Efficiency Differentiation of Human Pluripotent Stem Cells to Cardiomyocytes and Characterization by Flow Cytometry. <i>Journal of Visualized Experiments</i> , 2014, , 52010.	0.3	56
34	SAGE identification of differentiation responsive genes in P19 embryonic cells induced to form cardiomyocytes in vitro. <i>Mechanisms of Development</i> , 2002, 117, 25-74.	1.7	54
35	Two-dimensional gel electrophoresis database of murine R1 embryonic stem cells. <i>Proteomics</i> , 2004, 4, 3813-3832.	2.2	54
36	Clenbuterol Induces Hypertrophy of the Latissimus Dorsi Muscle and Heart in the Rat With Molecular and Phenotypic Changes. <i>Circulation</i> , 1995, 92, 483-489.	1.6	52

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37	The molecular biology of heart failure. <i>Journal of the American College of Cardiology</i> , 1993, 22, A30-A33.	2.8	45
38	Long-Term Improvement in Postinfarct Left Ventricular Global and Regional Contractile Function Is Mediated by Embryonic Stem Cell-Derived Cardiomyocytes. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 33-41.	2.6	45
39	Integrated transcriptomic and regulatory network analyses identify microRNA-200c as a novel repressor of human pluripotent stem cell-derived cardiomyocyte differentiation and maturation. <i>Cardiovascular Research</i> , 2018, 114, 894-906.	3.8	44
40	Mitogen-Activated Protein Kinase-Activated Protein Kinases 2 and 3 Regulate SERCA2a Expression and Fiber Type Composition To Modulate Skeletal Muscle and Cardiomyocyte Function. <i>Molecular and Cellular Biology</i> , 2013, 33, 2586-2602.	2.3	43
41	WNT-conditioned media differentially affect the proliferation and differentiation of cord blood-derived CD133+ cells in vitro. <i>Differentiation</i> , 2007, 75, 100-111.	1.9	41
42	Sp1 and Sp3 transcription factors are required for trans-activation of the human SERCA2 promoter in cardiomyocytes. <i>Cardiovascular Research</i> , 2003, 60, 347-354.	3.8	38
43	Aging-associated changes in cardiac gene expression. <i>Cardiovascular Research</i> , 2005, 66, 194-204.	3.8	37
44	A novel role for proteomics in the discovery of cell-surface markers on stem cells: Scratching the surface. <i>Proteomics - Clinical Applications</i> , 2008, 2, 892-903.	1.6	37
45	The cell surface marker CD36 selectively identifies matured, mitochondria-rich hPSC-cardiomyocytes. <i>Cell Research</i> , 2020, 30, 626-629.	12.0	36
46	A Quantitative and Validated SAGE Transcriptome Reference for Adult Mouse Heart. <i>Genomics</i> , 2002, 80, 213-222.	2.9	35
47	The new role of SAGE in gene discovery. <i>Trends in Biotechnology</i> , 2003, 21, 55-57.	9.3	35
48	The B-MYB Transcriptional Network Guides Cell Cycle Progression and Fate Decisions to Sustain Self-Renewal and the Identity of Pluripotent Stem Cells. <i>PLoS ONE</i> , 2012, 7, e42350.	2.5	35
49	Organic Electrochemical Transistor Arrays for In Vitro Electrophysiology Monitoring of 2D and 3D Cardiac Tissues. <i>Advanced Biology</i> , 2019, 3, e1800248.	3.0	35
50	Transcriptome-Guided Functional Analyses Reveal Novel Biological Properties and Regulatory Hierarchy of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes Crucial for Maturation. <i>PLoS ONE</i> , 2013, 8, e77784.	2.5	35
51	The Pro-angiogenic Cytokine Pleiotrophin Potentiates Cardiomyocyte Apoptosis through Inhibition of Endogenous AKT/PKB Activity. <i>Journal of Biological Chemistry</i> , 2007, 282, 34984-34993.	3.4	34
52	Differentiation induction of mouse embryonic stem cells into sinus node-like cells by suramin. <i>International Journal of Cardiology</i> , 2011, 147, 95-111.	1.7	34
53	PTHGRN: unraveling post-translational hierarchical gene regulatory networks using PPI, ChIP-seq and gene expression data. <i>Nucleic Acids Research</i> , 2014, 42, W130-W136.	14.5	34
54	Galanin and galanin receptors in embryonic stem cells: accidental or essential?. <i>Neuropeptides</i> , 2002, 36, 239-245.	2.2	33

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55	Can transcriptome size be estimated from SAGE catalogs?. <i>Bioinformatics</i> , 2003, 19, 443-448.	4.1	33
56	Rhythmic beating of stem cell-derived cardiac cells requires dynamic coupling of electrophysiology and Ca cycling. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 66-76.	1.9	33
57	Proliferation of mouse embryonic stem cell progeny and the spontaneous contractile activity of cardiomyocytes are affected by microtopography. <i>Developmental Dynamics</i> , 2009, 238, 1964-1973.	1.8	32
58	Cardiomyogenic stem and progenitor cell plasticity and the dissection of cardiopoiesis. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 45, 475-494.	1.9	31
59	Human pluripotent stem cell-derived cardiomyocytes for heart regeneration, drug discovery and disease modeling: from the genetic, epigenetic, and tissue modeling perspectives. <i>Stem Cell Research and Therapy</i> , 2013, 4, 97.	5.5	31
60	A distant upstream region of the rat multipartite Na + Ca^{2+} exchanger NCX1 gene promoter is sufficient to confer cardiac-specific expression. <i>Mechanisms of Development</i> , 2001, 109, 267-279.	1.7	27
61	Embryonic Stem Cell-Derived Cardiomyocyte Heterogeneity and the Isolation of Immature and Committed Cells for Cardiac Remodeling and Regeneration. <i>Stem Cells International</i> , 2011, 2011, 1-10.	2.5	25
62	Epigenetic Regulation of the Electrophysiological Phenotype of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes: Insights for Driven Maturation and Hypertrophic Growth. <i>Stem Cells and Development</i> , 2013, 22, 2678-2690.	2.1	25
63	Enhanced Proliferation of Monolayer Cultures of Embryonic Stem (ES) Cell-Derived Cardiomyocytes Following Acute Loss of Retinoblastoma. <i>PLoS ONE</i> , 2008, 3, e3896.	2.5	24
64	Inhibition of an NAD ⁺ Salvage Pathway Provides Efficient and Selective Toxicity to Human Pluripotent Stem Cells. <i>Stem Cells Translational Medicine</i> , 2015, 4, 483-493.	3.3	24
65	Functional Properties of Engineered Heart Slices Incorporating Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Stem Cell Reports</i> , 2019, 12, 982-995.	4.8	24
66	Sub-Antihypertensive Doses of Ramipril Normalize Sarcoplasmic Reticulum Calcium ATPase Expression and Function following Cardiac Hypertrophy in Rats. <i>Journal of Molecular and Cellular Cardiology</i> , 1998, 30, 2683-2694.	1.9	23
67	The sarco(endo)plasmic reticulum Ca^{2+} -ATPase gene is regulated at the transcriptional level during compensated left ventricular hypertrophy in the rat. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1997, 320, 963-969.	0.8	22
68	Can Exogenous Stem Cells Be Used in Transplantation?. <i>Cells Tissues Organs</i> , 1999, 165, 237-245.	2.3	22
69	Mitochondrial Ca^{2+} flux modulates spontaneous electrical activity in ventricular cardiomyocytes. <i>PLoS ONE</i> , 2018, 13, e0200448.	2.5	22
70	Concise Review: Cell Surface N-Linked Glycoproteins as Potential Stem Cell Markers and Drug Targets. <i>Stem Cells Translational Medicine</i> , 2017, 6, 131-138.	3.3	21
71	Altered Electrical, Biomolecular, and Immunologic Phenotypes in a Novel Patient-Derived Stem Cell Model of Desmoglein-2 Mutant ARVC. <i>Journal of Clinical Medicine</i> , 2021, 10, 3061.	2.4	21
72	Pluripotent stem cell heterogeneity and the evolving role of proteomic technologies in stem cell biology. <i>Proteomics</i> , 2011, 11, 3947-3961.	2.2	20

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73	An integrative method to decode regulatory logics in gene transcription. <i>Nature Communications</i> , 2017, 8, 1044.	12.8	19
74	Signals from Embryonic Fibroblasts Induce Adult Intestinal Epithelial Cells to Form Nestin-Positive Cells with Proliferation and Multilineage Differentiation Capacity In Vitro. <i>Stem Cells</i> , 2006, 24, 2085-2097.	3.2	18
75	Expanding the mouse embryonic stem cell proteome: Combining three proteomic approaches. <i>Proteomics</i> , 2010, 10, 2728-2732.	2.2	17
76	Plant Homeo Domain Finger Protein 8 Regulates Mesodermal and Cardiac Differentiation of Embryonic Stem Cells Through Mediating the Histone Demethylation of <i>pmaip1</i> . <i>Stem Cells</i> , 2016, 34, 1527-1540.	3.2	16
77	Cardiomyocytes Derived From Embryonic Stem Cells. , 2005, 108, 417-436.		15
78	Discovering altered genomic expression patterns in heart: transcriptome determination by serial analysis of gene expression. <i>European Journal of Heart Failure</i> , 2001, 3, 271-281.	7.1	14
79	Are These Cardiomyocytes? Protocol Development Reveals Impact of Sample Preparation on the Accuracy of Identifying Cardiomyocytes by Flow Cytometry. <i>Stem Cell Reports</i> , 2019, 12, 395-410.	4.8	14
80	Analysis of altered genomic expression profiles in the senescent and diseased myocardium using cDNA microarrays. <i>European Journal of Heart Failure</i> , 2002, 4, 687-697.	7.1	13
81	ES Cell Differentiation to the Cardiac Lineage. <i>Methods in Enzymology</i> , 2003, 365, 228-241.	1.0	13
82	Pluripotency of human embryonic and induced pluripotent stem cells for cardiac and vascular regeneration. <i>Thrombosis and Haemostasis</i> , 2010, 104, 23-29.	3.4	13
83	Maturing heart muscle cells: Mechanisms and transcriptomic insights. <i>Seminars in Cell and Developmental Biology</i> , 2021, 119, 49-60.	5.0	13
84	Ascorbic acid promotes cardiomyogenesis through SMAD1 signaling in differentiating mouse embryonic stem cells. <i>PLoS ONE</i> , 2017, 12, e0188569.	2.5	13
85	Low-dose ramipril treatment improves relaxation and calcium cycling after established cardiac hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 280, H1029-H1038.	3.2	12
86	Linkage of cardiac gene expression profiles and ETS2 with lifespan variability in rats. <i>Aging Cell</i> , 2012, 11, 350-359.	6.7	12
87	N-glycoprotein surfaceomes of four developmentally distinct mouse cell types. <i>Proteomics - Clinical Applications</i> , 2014, 8, 603-609.	1.6	12
88	Linkage of Pluripotent Stem Cell-Associated Transcripts to Regulatory Gene Networks. <i>Cells Tissues Organs</i> , 2008, 188, 31-45.	2.3	9
89	Human ESC/iPSC-based omics™ and bioinformatics for translational research. <i>Drug Discovery Today: Disease Models</i> , 2012, 9, e161-e170.	1.2	8
90	Importance of evaluating protein glycosylation in pluripotent stem cell-derived cardiomyocytes for research and clinical applications. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 1041-1059.	2.8	8

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91	Serial Analysis of Gene Expression (SAGE). <i>Methods in Molecular Biology</i> , 2007, 366, 41-59.	0.9	8
92	Induced pluripotent stem cell-derived vascular smooth muscle cells. <i>Vascular Biology (Bristol)</i> , 2007, 19, 107-115.	3.2	8
93	Regulation of expression of contractile proteins with cardiac hypertrophy and failure. <i>Molecular and Cellular Biochemistry</i> , 1996, 157, 181-9.	3.1	6
94	Immunophenotyping of Live Human Pluripotent Stem Cells by Flow Cytometry. <i>Methods in Molecular Biology</i> , 2018, 1722, 127-149.	0.9	6
95	Cell surface markers for immunophenotyping human pluripotent stem cell-derived cardiomyocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2021, 473, 1023-1039.	2.8	6
96	Ouabain treatment is associated with upregulation of phosphatase inhibitor-1 and Na ⁺ /Ca ²⁺ -exchanger and β -adrenergic sensitization in rat hearts. <i>Biochemical and Biophysical Research Communications</i> , 2004, 318, 219-226.	2.1	5
97	Myocardial aging and embryonic stem cell biology. <i>Advances in Cell Aging and Gerontology</i> , 2002, , 141-176.	0.1	4
98	SAGE Analysis to Identify Embryonic Stem Cell-Predominant Transcripts. , 2006, 329, 195-222.		3
99	The golden age of cardiomyogenic stem cells: avoiding a fool's fate. <i>Expert Review of Cardiovascular Therapy</i> , 2009, 7, 1-4.	1.5	3
100	Cardiomyocytes derived from pluripotent stem cells: Progress and prospects from China. <i>Experimental Cell Research</i> , 2013, 319, 120-125.	2.6	2
101	Discovery of Surface Target Proteins Linking Drugs, Molecular Markers, Gene Regulation, Protein Networks, and Disease by Using a Web-Based Platform Targets-search. <i>Methods in Molecular Biology</i> , 2018, 1722, 331-344.	0.9	2
102	Cardiac Na ⁺ -Ca ²⁺ exchanger 1 (ncx1h) is critical for the ventricular cardiomyocyte formation via regulating the expression levels of gata4 and hand2 in zebrafish. <i>Science China Life Sciences</i> , 2021, 64, 255-268.	4.9	2
103	Consensus Comparative Analysis of Human Embryonic Stem Cell-Derived Cardiomyocytes. <i>PLoS ONE</i> , 2015, 10, e0125442.	2.5	1
104	Cardiac Development. <i>Medical Intelligence Unit</i> , 1995, , 25-78.	0.2	1
105	Gene Expression in Cardiac Hypertrophy. <i>Medical Intelligence Unit</i> , 1995, , 165-236.	0.2	1
106	Overview: The Molecular Phenotype of Normal and Impaired Relaxation. , 1994, , 3-6.		0
107	Special issue on recent progress with hPSC-derived cardiovascular cells for organoids, engineered myocardium, drug discovery, disease models, and therapy. <i>Pflügers Archiv European Journal of Physiology</i> , 2021, 473, 983-988.	2.8	0
108	Abstract 15961: Syncytial Model of Type 2 Long QT Syndrome Derived From Human iPS Cells Can Be Paced and Responds to I _{Kr} Block and Activation. <i>Circulation</i> , 2014, 130, .	1.6	0