Enzo R Porrello

List of Publications by Year
in descending order

72 papers	8,434 citations	136740 32 h-index	85405 71 g-index
79 all docs	79 docs citations	79 times ranked	9580 citing authors

#	Article	IF	Citations
1	Transient Regenerative Potential of the Neonatal Mouse Heart. Science, 2011, 331, 1078-1080.	6.0	2,117
2	Hippo pathway effector Yap promotes cardiac regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13839-13844.	3.3	735
3	Macrophages are required for neonatal heart regeneration. Journal of Clinical Investigation, 2014, 124, 1382-1392.	3.9	660
4	Regulation of neonatal and adult mammalian heart regeneration by the miR-15 family. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 187-192.	3.3	654
5	Meis1 regulates postnatal cardiomyocyte cell cycle arrest. Nature, 2013, 497, 249-253.	13.7	470
6	miR-15 Family Regulates Postnatal Mitotic Arrest of Cardiomyocytes. Circulation Research, 2011, 109, 670-679.	2.0	406
7	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8372-E8381.	3.3	361
8	Multicellular Transcriptional Analysis of Mammalian Heart Regeneration. Circulation, 2017, 136, 1123-1139.	1.6	222
9	Drug Screening in Human PSC-Cardiac Organoids Identifies Pro-proliferative Compounds Acting via the Mevalonate Pathway. Cell Stem Cell, 2019, 24, 895-907.e6.	5.2	199
10	A neonatal blueprint for cardiac regeneration. Stem Cell Research, 2014, 13, 556-570.	0.3	159
11	Neutrophil-Derived S100A8/A9 Amplify Granulopoiesis After Myocardial Infarction. Circulation, 2020, 141, 1080-1094.	1.6	155
12	Surgical models for cardiac regeneration in neonatal mice. Nature Protocols, 2014, 9, 305-311.	5.5	150
13	BET inhibition blocks inflammation-induced cardiac dysfunction and SARS-CoV-2 infection. Cell, 2021, 184, 2167-2182.e22.	13.5	131
14	Development of a human cardiac organoid injury model reveals innate regenerative potential. Development (Cambridge), 2017, 144, 1118-1127.	1.2	127
15	Expression, Regulation and Putative Nutrient-Sensing Function of Taste GPCRs in the Heart. PLoS ONE, 2013, 8, e64579.	1.1	121
16	Evolution, comparative biology and ontogeny of vertebrate heart regeneration. Npj Regenerative Medicine, 2016, 1, 16012.	2.5	109
17	Epicardial Adipose Tissue Accumulation Confers Atrial Conduction Abnormality. Journal of the American College of Cardiology, 2020, 76, 1197-1211.	1.2	103
18	Angiotensin II Type 2 Receptor Antagonizes Angiotensin II Type 1 Receptorâ€"Mediated Cardiomyocyte Autophagy. Hypertension, 2009, 53, 1032-1040.	1.3	100

#	Article	IF	Citations
19	The angiotensin II type 2 (AT2) receptor: an enigmatic seven transmembrane receptor. Frontiers in Bioscience - Landmark, 2009, Volume, 958.	3.0	99
20	microRNAs in cardiac development and regeneration. Clinical Science, 2013, 125, 151-166.	1.8	85
21	NKX2-5 regulates human cardiomyogenesis via a HEY2 dependent transcriptional network. Nature Communications, 2018, 9, 1373.	5.8	77
22	Therapeutic silencing of miRâ€652 restores heart function and attenuates adverse remodeling in a setting of established pathological hypertrophy. FASEB Journal, 2014, 28, 5097-5110.	0.2	74
23	Heteromerization of angiotensin receptors changes trafficking and arrestin recruitment profiles. Cellular Signalling, 2011, 23, 1767-1776.	1.7	63
24	Dynamic changes in the cardiac methylome during postnatal development. FASEB Journal, 2015, 29, 1329-1343.	0.2	56
25	The Hypoxic Epicardial and Subepicardial Microenvironment. Journal of Cardiovascular Translational Research, 2012, 5, 654-665.	1.1	54
26	EARLY ORIGINS OF CARDIAC HYPERTROPHY: DOES CARDIOMYOCYTE ATTRITION PROGRAMME FOR PATHOLOGICAL â€˜CATCHâ€UPâ€™ GROWTH OF THE HEART?. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 1358-1364.	0.9	53
27	Induction of Human iPSC-Derived Cardiomyocyte Proliferation Revealed by Combinatorial Screening in High Density Microbioreactor Arrays. Scientific Reports, 2016, 6, 24637.	1.6	53
28	Alpha-protein kinase 3 (<i>ALPK3</i>) truncating variants are a cause of autosomal dominant hypertrophic cardiomyopathy. European Heart Journal, 2021, 42, 3063-3073.	1.0	51
29	Cardiomyocyte autophagy is regulated by angiotensin II type 1 and type 2 receptors. Autophagy, 2009, 5, 1215-1216.	4.3	47
30	Sex-Specific Control of Human Heart Maturation by the Progesterone Receptor. Circulation, 2021, 143, 1614-1628.	1.6	42
31	Therapeutic Inhibition of Acid-Sensing Ion Channel 1a Recovers Heart Function After Ischemiaâ€"Reperfusion Injury. Circulation, 2021, 144, 947-960.	1.6	40
32	Development of a human skeletal micro muscle platform with pacing capabilities. Biomaterials, 2019, 198, 217-227.	5.7	38
33	Reactivation of Myc transcription in the mouse heart unlocks its proliferative capacity. Nature Communications, 2020, 11, 1827.	5.8	38
34	Maternal Vitamin D Deficiency Leads to Cardiac Hypertrophy in Rat Offspring. Reproductive Sciences, 2010, 17, 168-176.	1.1	37
35	Vegfc/d-dependent regulation of the lymphatic vasculature during cardiac regeneration is influenced by injury context. Npj Regenerative Medicine, 2019, 4, 18.	2.5	37
36	The intrinsic resistance of female hearts to an ischemic insult is abrogated in primary cardiac hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H1514-H1522.	1.5	34

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37	Heritable pathologic cardiac hypertrophy in adulthood is preceded by neonatal cardiac growth restriction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R672-R680.	0.9	31
38	HMGB1 amplifies ILC2-induced type-2 inflammation and airway smooth muscleÂremodelling. PLoS Pathogens, 2020, 16, e1008651.	2.1	31
39	Cardiomyocyte Functional Etiology in Heart Failure With Preserved Ejection Fraction Is Distinctiveâ€"A New Preclinical Model. Journal of the American Heart Association, 2018, 7, .	1.6	27
40	Regulation of angiotensinogen by angiotensin II in mouse primary astrocyte cultures. Journal of Neurochemistry, 2011, 119, 18-26.	2.1	25
41	Concise Review: New Frontiers in MicroRNA-Based Tissue Regeneration. Stem Cells Translational Medicine, 2014, 3, 969-976.	1.6	24
42	Î²-catenin drives distinct transcriptional networks in proliferative and non-proliferative cardiomyocytes. Development (Cambridge), 2020, 147, .	1.2	24
43	Cardiac gene expression data and in silico analysis provide novel insights into human and mouse taste receptor gene regulation. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 1009-1027.	1.4	23
44	Building a New Heart From Old Parts. Circulation Research, 2010, 107, 1292-1294.	2.0	20
45	Turning Back the Cardiac Regenerative Clock: Lessons From the Neonate. Trends in Cardiovascular Medicine, 2012, 22, 128-133.	2.3	19
46	Resetting the epigenome for heart regeneration.. Seminars in Cell and Developmental Biology, 2016, 58, 2-13.	2.3	18
47	Yap regulates skeletal muscle fatty acid oxidation and adiposity in metabolic disease. Nature Communications, 2021, 12, 2887.	5.8	18
48	Regulation of microRNA during cardiomyocyte maturation in sheep. BMC Genomics, 2015, 16, 541.	1.2	17
49	Disease modeling and functional screening using engineered heart tissue. Current Opinion in Physiology, 2018, 1, 80-88.	0.9	17
50	Cardiomyocyte functional screening: interrogating comparative electrophysiology of high-throughput model cell systems. American Journal of Physiology - Cell Physiology, 2019, 317, C1256-C1267.	2.1	17
51	Differential Response to Injury in Fetal and Adolescent Sheep Hearts in the Immediate Post-myocardial Infarction Period. Frontiers in Physiology, 2019, 10, 208.	1.3	17
52	3D-cardiomics: A spatial transcriptional atlas of the mammalian heart. Journal of Molecular and Cellular Cardiology, 2022, 163, 20-32.	0.9	16
53	Cavin-1 deficiency modifies myocardial and coronary function, stretch responses and ischaemic tolerance: roles of NOS over-activity. Basic Research in Cardiology, 2017, 112, 24.	2.5	15
54	TrawlerWeb: an online de novo motif discovery tool for next-generation sequencing datasets. BMC Genomics, 2018, 19, 238.	1.2	12

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55	Loss of the long non-coding RNA OIP5-AS1 exacerbates heart failure in a sex-specific manner. IScience, 2021, 24, 102537.	1.9	12
56	Upsizing Neonatal Heart Regeneration. Circulation, 2018, 138, 2817-2819.	1.6	11
57	The Non-coding Road Towards Cardiac Regeneration. Journal of Cardiovascular Translational Research, 2013, 6, 909-923.	1.1	10
58	Cryoinjury Model for Tissue Injury and Repair in Bioengineered Human Striated Muscle. Methods in Molecular Biology, 2017, 1668, 209-224.	0.4	7
59	Neonatal heart regeneration: Moving from phenomenology to regenerative medicine. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, 2451-2455.	0.4	7
60	Glucocorticoids Suppress Growth in Neonatal Cardiomyocytes Co-Expressing AT₂ and AT₁ Angiotensin Receptors. Neonatology, 2010, 97, 257-265.	0.9	6
61	Periostin paves the way for neonatal heart regeneration. Cardiovascular Research, 2017, 113, 556-558.	1.8	6
62	HFpEFâ€"Time to Explore the Role of Genetic Heterogeneity in Phenotypic Variability. Circulation, 2019, 140, 1607-1609.	1.6	6
63	Evaluating anthracycline cardiotoxicity associated single nucleotide polymorphisms in a paediatric cohort with early onset cardiomyopathy. Cardio-Oncology, 2020, 6, 5.	0.8	6
64	Commentary: From bioprosthetic tissue degeneration to regeneration: A new surgical horizon in the era of regenerative medicine. Journal of Thoracic and Cardiovascular Surgery, 2019, 158, 742-743.	0.4	5
65	CD90 Marks a Mesenchymal Program in Human Thymic Epithelial Cells In Vitro and In Vivo. Frontiers in Immunology, 2022, 13, 846281.	2.2	5
66	Differential gene responses 3 days following infarction in the fetal and adolescent sheep heart. Physiological Genomics, 2020, 52, 143-159.	1.0	4
67	Stimulation of the four isoforms of receptor tyrosine kinase ErbB4, but not ErbB1, confers cardiomyocyte hypertrophy. Journal of Cellular Physiology, 2021, 236, 8160-8170.	2.0	4
68	The role of cardiac transcription factor NKX2-5 in regulating the human cardiac miRNAome. Scientific Reports, 2019, 9, 15928.	1.6	3
69	From Fragrances to Heart Regeneration: Malonate Repairs Broken Hearts. Circulation, 2021, 143, 1987-1990.	1.6	3
70	Elevated dietary sodium intake exacerbates myocardial hypertrophy associated with cardiac-specific overproduction of angiotensin II. JRAAS - Journal of the Renin-Angiotensin-Aldosterone System, 2004, 5, 169-175.	1.0	2
71	From genome editing to blastocyst complementation: AÂnew horizon in heart transplantation?. JTCVS Techniques, 2022, 12, 177-184.	0.2	1
72	FunSel. Circulation, 2017, 136, 1525-1527.	1.6	0