Rolf Bodmer

List of Publications by Year
in descending order

49 papers	2,733 citations	236925 25 h-index	223800 46 g-index
59 all docs	59 docs citations	59 times ranked	3471 citing authors

#	Article	IF	Citations
1	Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly. Science, 2022, 375, eabk2432.	12.6	295
2	A new method for detection and quantification of heartbeat parameters in Drosophila, zebrafish, and embryonic mouse hearts. BioTechniques, 2009, 46, 101-113.	1.8	247
3	KCNQ potassium channel mutations cause cardiac arrhythmias in Drosophila that mimic the effects of aging. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3943-3948.	7.1	206
4	A Global In Vivo Drosophila RNAi Screen Identifies NOT3 as a Conserved Regulator of Heart Function. Cell, 2010, 141, 142-153.	28.9	199
5	Heart development in Drosophila and its relationship to vertebrates. Trends in Cardiovascular Medicine, 1995, 5, 21-28.	4.9	164
6	Genetic Control of Heart Function and Aging in Drosophila. Trends in Cardiovascular Medicine, 2007, 17, 177-182.	4.9	119
7	52 Genetic Loci Influencing MyocardialÂMass. Journal of the American College of Cardiology, 2016, 68, 1435-1448.	2.8	113
8	Myogenic cells fates are antagonized by Notch only in asymmetric lineages of theDrosophilaheart, with or without cell division. Development (Cambridge), 2003, 130, 3039-3051.	2.5	89
9	Vinculin networkâ€"mediated cytoskeletal remodeling regulates contractile function in the aging heart. Science Translational Medicine, 2015, 7, 292ra99.	12.4	81
10	A Mighty Small Heart: The Cardiac Proteome of Adult Drosophila melanogaster. PLoS ONE, 2011, 6, e18497.	2.5	81
11	PGC-1/Spargel Counteracts High-Fat-Diet-Induced Obesity and Cardiac Lipotoxicity Downstream of TOR and Brummer ATGL Lipase. Cell Reports, 2015, 10, 1572-1584.	6.4	79
12	Semi-automated Optical Heartbeat Analysis of Small Hearts. Journal of Visualized Experiments, 2009, , .	0.3	76
13	Tinman/Nkx2-5 acts via miR-1 and upstream of Cdc42 to regulate heart function across species. Journal of Cell Biology, 2011, 193, 1181-1196.	5.2	74
14	Methods to assess Drosophila heart development, function and aging. Methods, 2014, 68, 265-272.	3.8	70
15	Systems Genomics of Metabolic Phenotypes in Wild-Type<i>Drosophila melanogaster</i>. Genetics, 2014, 197, 781-793.	2.9	69
16	Fluorescent Labeling of Drosophila Heart Structures. Journal of Visualized Experiments, 2009, , .	0.3	50
17	SLP-2 interacts with Parkin in mitochondria and prevents mitochondrial dysfunction in Parkin-deficient human iPSC-derived neurons and<i>Drosophila</i>. Human Molecular Genetics, 2017, 26, 2412-2425.	2.9	48
18	ROS Regulate Cardiac Function via a Distinct Paracrine Mechanism. Cell Reports, 2014, 7, 35-44.	6.4	47

#	Article	IF	Citations
19	Klf15 Is Critical for the Development and Differentiation of Drosophila Nephrocytes. PLoS ONE, 2015, 10, e0134620.	2.5	46
20	The<i>Drosophila</i>homolog of vertebrate<i>Islet1</i>is a key component in early cardiogenesis. Development (Cambridge), 2009, 136, 317-326.	2.5	41
21	Clueless, a protein required for mitochondrial function, interacts with the PINK1-Parkin complex in <i>Drosophila</i>. DMM Disease Models and Mechanisms, 2015, 8, 577-589.	2.4	37
22	De Novo Variants in CNOT1, a Central Component of the CCR4-NOT Complex Involved in Gene Expression and RNA and Protein Stability, Cause Neurodevelopmental Delay. American Journal of Human Genetics, 2020, 107, 164-172.	6.2	37
23	Cellular Mechanisms of Drosophila Heart Morphogenesis. Journal of Cardiovascular Development and Disease, 2015, 2, 2-16.	1.6	36
24	Gaining Insights into Diabetic Cardiomyopathy from Drosophila. Trends in Endocrinology and Metabolism, 2015, 26, 618-627.	7.1	35
25	Modest overexpression of <i><scp>FOXO</scp></i> maintains cardiac proteostasis and ameliorates ageâ€associated functional decline. Aging Cell, 2017, 16, 93-103.	6.7	31
26	<i>Cdc42</i> and formin activity control non-muscle myosin dynamics during <i>Drosophila</i> heart morphogenesis. Journal of Cell Biology, 2014, 206, 909-922.	5.2	30
27	SPARCâ€"Dependent Cardiomyopathy in <i>Drosophila</i>. Circulation: Cardiovascular Genetics, 2016, 9, 119-129.	5.1	30
28	Patient-specific genomics and cross-species functional analysis implicate LRP2 in hypoplastic left heart syndrome. ELife, 2020, 9, .	6.0	29
29	Extracellular matrix downregulation in the Drosophila heart preserves contractile function and improves lifespan. Matrix Biology, 2017, 62, 15-27.	3.6	25
30	Obesity-associated cardiac dysfunction in starvation-selected <i>Drosophila melanogaster</i>. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R658-R667.	1.8	22
31	Prolonged Exposure to Microgravity Reduces Cardiac Contractility and Initiates Remodeling in Drosophila. Cell Reports, 2020, 33, 108445.	6.4	22
32	Cardiac responses to hypoxia and reoxygenation in <i>Drosophila</i>. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1347-R1357.	1.8	19
33	High Fat Diet Feeding and High Throughput Triacylglyceride Assay in Drosophila Melanogaster. Journal of Visualized Experiments, 2017, , .	0.3	19
34	Model system identification of novel congenital heart disease gene candidates: focus on RPL13. Human Molecular Genetics, 2019, 28, 3954-3969.	2.9	19
35	Silencing of CCR4-NOT complex subunits affect heart structure and function. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	18
36	Cardiac deficiency of single cytochrome oxidase assembly factor scox induces p53-dependent apoptosis in a Drosophila cardiomyopathy model. Human Molecular Genetics, 2015, 24, 3608-3622.	2.9	17

#	Article	IF	Citations
37	A homozygous KAT2B variant modulates the clinical phenotype of ADD3 deficiency in humans and flies. PLoS Genetics, 2018, 14, e1007386.	3.5	17
38	Identification of <i>MYOM2</i> as a candidate gene in hypertrophic cardiomyopathy and tetralogy of fallot and its functional evaluation in the <i>Drosophila</i> heart. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	16
39	TRiC/CCT chaperonins are essential for maintaining myofibril organization, cardiac physiological rhythm, and lifespan. FEBS Letters, 2017, 591, 3447-3458.	2.8	15
40	Mechanical and non-mechanical functions of Dystrophin can prevent cardiac abnormalities in Drosophila. Experimental Gerontology, 2014, 49, 26-34.	2.8	11
41	The canonical Wingless signaling pathway is required but not sufficient for inflow tract formation in the Drosophila melanogaster heart. Developmental Biology, 2016, 413, 16-25.	2.0	11
42	Transcriptomic analysis identifies a role of PI3Kâ€“Akt signalling in the responses of skeletal muscle to acute hypoxia <i>in vivo</i>. Journal of Physiology, 2017, 595, 5797-5813.	2.9	10
43	Genetic manipulation of cardiac ageing. Journal of Physiology, 2016, 594, 2075-2083.	2.9	8
44	A Restrictive Cardiomyopathy Mutation in an Invariant Proline at the Myosin Head/Rod Junction Enhances Head Flexibility and Function, Yielding Muscle Defects in Drosophila. Journal of Molecular Biology, 2016, 428, 2446-2461.	4.2	8
45	Overexpression of Kif1A in the Developing Drosophila Heart Causes Valvar and Contractility Defects: Implications for Human Congenital Heart Disease. Journal of Cardiovascular Development and Disease, 2020, 7, 22.	1.6	5
46	Atrial Fibrillation Genomics: Discovery and Translation. Current Cardiology Reports, 2021, 23, 164.	2.9	0
47	Genetic Modulation of Cardiac Functional Aging. FASEB Journal, 2009, 23, 414.1.	0.5	0
48	Regulation of obesity, heart function, and lifespan by the nutrient sensing TOR pathway. FASEB Journal, 2009, 23, 93.1.	0.5	0
49	Identifying the Molecular Mechanisms of Diastolic Dysfunction in Drosophila. FASEB Journal, 2012, 26, 864.5.	0.5	0