

Diederik Kuster

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

2,078
citations

236833

25
h-index

265120

42
g-index

92
all docs

92
docs citations

92
times ranked

2725
citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbed Length-Dependent Activation in Human Hypertrophic Cardiomyopathy With Missense Sarcomeric Gene Mutations. <i>Circulation Research</i> , 2013, 112, 1491-1505.	2.0	191
2	Contractile Dysfunction Irrespective of the Mutant Protein in Human Hypertrophic Cardiomyopathy With Normal Systolic Function. <i>Circulation: Heart Failure</i> , 2012, 5, 36-46.	1.6	127
3	Cardiac Microvascular Endothelial Enhancement of Cardiomyocyte Function Is Impaired by Inflammation and Restored by Empagliflozin. <i>JACC Basic To Translational Science</i> , 2019, 4, 575-591.	1.9	125
4	β-adrenergic receptor signalling and its functional consequences in the diseased heart. <i>European Journal of Clinical Investigation</i> , 2016, 46, 362-374.	1.7	96
5	Contribution of Impaired Parasympathetic Activity to Right Ventricular Dysfunction and Pulmonary Vascular Remodeling in Pulmonary Arterial Hypertension. <i>Circulation</i> , 2018, 137, 910-924.	1.6	83
6	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. <i>Cardiovascular Research</i> , 2021, 117, 43-59.	1.8	72
7	Synergistic role of ADP and Ca ²⁺ in diastolic myocardial stiffness. <i>Journal of Physiology</i> , 2015, 593, 3899-3916.	1.3	60
8	Proteomic and Functional Studies Reveal Detyrosinated Tubulin as Treatment Target in Sarcomere Mutation-Induced Hypertrophic Cardiomyopathy. <i>Circulation: Heart Failure</i> , 2021, 14, e007022.	1.6	58
9	Disturbed cardiac mitochondrial and cytosolic calcium handling in a metabolic risk-related rat model of heart failure with preserved ejection fraction. <i>Acta Physiologica</i> , 2020, 228, e13378.	1.8	51
10	MicroRNA transcriptome profiling in cardiac tissue of hypertrophic cardiomyopathy patients with MYBPC3 mutations. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 65, 59-66.	0.9	49
11	Hypertrophic Cardiomyopathy: A Vicious Cycle Triggered by Sarcomere Mutations and Secondary Disease Hits. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 318-358.	2.5	49
12	GSK3β Phosphorylates Newly Identified Site in the Proline-Alanine-Rich Region of Cardiac Myosin-Binding Protein C and Alters Cross-Bridge Cycling Kinetics in Human. <i>Circulation Research</i> , 2013, 112, 633-639.	2.0	48
13	Sex Differences at the Time of Myectomy in Hypertrophic Cardiomyopathy. <i>Circulation: Heart Failure</i> , 2018, 11, e004133.	1.6	48
14	Cardiac myosin binding protein C phosphorylation in cardiac disease. <i>Journal of Muscle Research and Cell Motility</i> , 2012, 33, 43-52.	0.9	45
15	Exercise training does not improve cardiac function in compensated or decompensated left ventricular hypertrophy induced by aortic stenosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 1017-1025.	0.9	44
16	Genotype-specific pathogenic effects in human dilated cardiomyopathy. <i>Journal of Physiology</i> , 2017, 595, 4677-4693.	1.3	42
17	Myocardial Infarction-induced N-terminal Fragment of Cardiac Myosin-binding Protein C (cMyBP-C) Impairs Myofilament Function in Human Myocardium. <i>Journal of Biological Chemistry</i> , 2014, 289, 8818-8827.	1.6	39
18	Empagliflozin restores chronic kidney disease-induced impairment of endothelial regulation of cardiomyocyte relaxation and contraction. <i>Kidney International</i> , 2021, 99, 1088-1101.	2.6	37

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19	Detrimental effect of combined exercise training and eNOS overexpression on cardiac function after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1513-H1523.	1.5	35
20	Sexual dimorphic response to exercise in hypertrophic cardiomyopathy-associated MYBPC3-targeted knock-in mice. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 1303-1317.	1.3	35
21	Myofilament Remodeling and Function Is More Impaired in Peripartum Cardiomyopathy Compared with Dilated Cardiomyopathy and Ischemic Heart Disease. <i>American Journal of Pathology</i> , 2017, 187, 2645-2658.	1.9	35
22	ADP-stimulated contraction: A predictor of thin-filament activation in cardiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E7003-12.	3.3	34
23	Thyroid Hormone-Regulated Cardiac microRNAs are Predicted to Suppress Pathological Hypertrophic Signaling. <i>Frontiers in Endocrinology</i> , 2014, 5, 171.	1.5	30
24	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2022, 118, 3016-3051.	1.8	30
25	Integrative Physiology 2.0™: integration of systems biology into physiology and its application to cardiovascular homeostasis. <i>Journal of Physiology</i> , 2011, 589, 1037-1045.	1.3	29
26	Selective phosphorylation of PKA targets after β_2 -adrenergic receptor stimulation impairs myofilament function in MYBPC3-targeted HCM mouse model. <i>Cardiovascular Research</i> , 2016, 110, 200-214.	1.8	28
27	Cardiac myosin-binding protein C: hypertrophic cardiomyopathy mutations and structure-function relationships. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 201-206.	1.3	26
28	Protein Quality Control Activation and Microtubule Remodeling in Hypertrophic Cardiomyopathy. <i>Cells</i> , 2019, 8, 741.	1.8	26
29	Sex-specific cardiac remodeling in early and advanced stages of hypertrophic cardiomyopathy. <i>PLoS ONE</i> , 2020, 15, e0232427.	1.1	25
30	Left ventricular remodeling in swine after myocardial infarction: a transcriptional genomics approach. <i>Basic Research in Cardiology</i> , 2011, 106, 1269-1281.	2.5	23
31	MYBPC3's alternate ending: consequences and therapeutic implications of a highly prevalent 25bp deletion mutation. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 207-213.	1.3	21
32	A Hypertrophic Cardiomyopathy-associated MYBPC3 Mutation Common in Populations of South Asian Descent Causes Contractile Dysfunction. <i>Journal of Biological Chemistry</i> , 2015, 290, 5855-5867.	1.6	21
33	Variable cardiac myosin binding protein-C expression in the myofilaments due to MYBPC3 mutations in hypertrophic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 123, 59-63.	0.9	21
34	Release kinetics of circulating cardiac myosin binding protein-C following cardiac injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H547-H556.	1.5	20
35	Ablation of the calpain-targeted site in cardiac myosin binding protein-C is cardioprotective during ischemia-reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 129, 236-246.	0.9	20
36	The Antibiotic Doxycycline Impairs Cardiac Mitochondrial and Contractile Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4100.	1.8	20

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37	Single-cell transcriptomics provides insights into hypertrophic cardiomyopathy. <i>Cell Reports</i> , 2022, 39, 110809.	2.9	20
38	Peripartum cardiomyopathy and dilated cardiomyopathy: different at heart. <i>Frontiers in Physiology</i> , 2014, 5, 531.	1.3	19
39	Altered C10 domain in cardiac myosin binding protein-C results in hypertrophic cardiomyopathy. <i>Cardiovascular Research</i> , 2019, 115, 1986-1997.	1.8	19
40	Multi-omics integration identifies key upstream regulators of pathomechanisms in hypertrophic cardiomyopathy due to truncating MYBPC3 mutations. <i>Clinical Epigenetics</i> , 2021, 13, 61.	1.8	17
41	Amino terminus of cardiac myosin binding protein-C regulates cardiac contractility. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 156, 33-44.	0.9	17
42	Prostanoids suppress the coronary vasoconstrictor influence of endothelin after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1080-H1089.	1.5	16
43	Cardiomyocyte Hypocontractility and Reduced Myofibril Density in End-Stage Pediatric Cardiomyopathy. <i>Frontiers in Physiology</i> , 2017, 8, 1103.	1.3	16
44	Unraveling the Genotype-Phenotype Relationship in Hypertrophic Cardiomyopathy: Obesity-Related Cardiac Defects as a Major Disease Modifier. <i>Journal of the American Heart Association</i> , 2020, 9, e018641.	1.6	16
45	miR-132/212 Impairs Cardiomyocytes Contractility in the Failing Heart by Suppressing SERCA2a. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 592362.	1.1	16
46	High Fibroblast Growth Factor 23 concentrations in experimental renal failure impair calcium handling in cardiomyocytes. <i>Physiological Reports</i> , 2018, 6, e13591.	0.7	15
47	Large-Scale Contractility Measurements Reveal Large Atrioventricular and Subtle Interventricular Differences in Cultured Unloaded Rat Cardiomyocytes. <i>Frontiers in Physiology</i> , 2020, 11, 815.	1.3	15
48	Increase in cardiac myosin binding protein-C plasma levels is a sensitive and cardiac-specific biomarker of myocardial infarction. <i>American Journal of Cardiovascular Disease</i> , 2013, 3, 60-70.	0.5	15
49	Untying the knot: protein quality control in inherited cardiomyopathies. <i>Pflugers Archiv European Journal of Physiology</i> , 2019, 471, 795-806.	1.3	14
50	A Sensitive and Specific Quantitation Method for Determination of Serum Cardiac Myosin Binding Protein-C by Electrochemiluminescence Immunoassay. <i>Journal of Visualized Experiments</i> , 2013, , .	0.2	13
51	Sex-dependent pathophysiological mechanisms in hypertrophic cardiomyopathy: Implications for rhythm disorders. <i>Heart Rhythm</i> , 2015, 12, 433-439.	0.3	12
52	Uptake and remodeling of exogenous phosphatidylethanolamine in <i>E. coli</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2004, 1636, 205-212.	1.2	11
53	End-diastolic force pre-activates cardiomyocytes and determines contractile force: role of titin and calcium. <i>Journal of Physiology</i> , 2019, 597, 4521-4531.	1.3	11
54	Sex-Related Differences in Protein Expression in Sarcomere Mutation-Positive Hypertrophic Cardiomyopathy. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 612215.	1.1	11

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55	Gene reprogramming in exercise-induced cardiac hypertrophy in swine: A transcriptional genomics approach. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 77, 168-174.	0.9	10
56	Mutation location of HCM-causing troponin T mutations defines the degree of myofilament dysfunction in human cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 150, 77-90.	0.9	10
57	Nuclear protein extraction from frozen porcine myocardium. <i>Journal of Physiology and Biochemistry</i> , 2011, 67, 165-173.	1.3	9
58	The effect of tropomyosin variants on cardiomyocyte function and structure that underlie different clinical cardiomyopathy phenotypes. <i>International Journal of Cardiology</i> , 2021, 323, 251-258.	0.8	8
59	Glycolaldehyde-Derived High-Molecular-Weight Advanced Glycation End-Products Induce Cardiac Dysfunction through Structural and Functional Remodeling of Cardiomyocytes. , 2020, 54, 809-824.		5
60	Gene expression profile in the diaphragm following contractile inactivity during thoracic surgery. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , 2011, 3, 167-75.	0.8	5
61	Application of Proteomics in Cardiovascular Research. <i>Current Proteomics</i> , 2010, 7, 108-115.	0.1	4
62	Cardiac Myosin Binding Protein-C Autoantibodies Are Potential Early Indicators of Cardiac Dysfunction and Patient Outcome in Acute Coronary Syndrome. <i>JACC Basic To Translational Science</i> , 2017, 2, 122-131.	1.9	3
63	What grows together, goes together: assessing variability in cardiomyocyte function. <i>Journal of Physiology</i> , 2019, 597, 665-666.	1.3	3
64	Beneficial Effects of Cardiomyopathy-Associated Genetic Variants on Physical Performance: A Hypothesis-Generating Scoping Review. <i>Cardiology</i> , 2022, 147, 90-97.	0.6	2
65	Young@Heart: empowering the next generation of cardiovascular researchers. <i>Netherlands Heart Journal</i> , 2020, 28, 25-30.	0.3	1
66	Strength of patient cohorts and biobanks for cardiomyopathy research. <i>Netherlands Heart Journal</i> , 2020, 28, 50-56.	0.3	1
67	Integrative approach to study the molecular basis of post-myocardial infarction remodeling in porcine heart. <i>FASEB Journal</i> , 2010, 24, .	0.2	1
68	Identification and Characterization of a New Phosphorylation Site on Cardiac Myosin Binding Protein C. <i>Biophysical Journal</i> , 2012, 102, 435a-436a.	0.2	0
69	Cardiac Myosin Binding Protein C Phosphorylation in Human Cardiac Disease. <i>Biophysical Journal</i> , 2012, 102, 598a.	0.2	0
70	Myocardial Infarction-Induced N-Terminal Fragment of Cmybp-C Impairs Myofilament Function in Human Left Ventricular Myofibrils. <i>Biophysical Journal</i> , 2014, 106, 347a.	0.2	0
71	Exercise-Induced Enhancement of Cardiac and Sarcomere Performance is Larger in Male than in Female MYBPC3 Mutation Heterozygous Knock-In Mice. <i>Biophysical Journal</i> , 2014, 106, 346a.	0.2	0
72	N-Terminal Region of Cardiac Myosin Binding Protein-C is Necessary for Cardiac Function. <i>Journal of Investigative Medicine</i> , 2016, 64, 911-912.	0.7	0

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73	ADP-Stimulated Contraction: A Predictor of Thin-Filament Activation in Cardiac Disease. Biophysical Journal, 2016, 110, 295a.	0.2	0
74	Pre-Activation of Cardiomyocytes Determines Speed of Contraction: Role of Titin. Biophysical Journal, 2017, 112, 121a.	0.2	0
75	P493The absences of Growth Differentiation Factor 15 aggravates adverse cardiac remodeling upon pressure-overload. Cardiovascular Research, 2018, 114, S119-S119.	1.8	0
76	Location of Hypertrophic Cardiomyopathy-Causing Troponin T Mutations Determines Degree of Myofilament Dysfunction. Biophysical Journal, 2018, 114, 313a.	0.2	0
77	Pre-Activation of Cardiomyocytes Determines Contractile Force and Speed of Contraction; Role of Titin and Calcium. Biophysical Journal, 2018, 114, 38a.	0.2	0
78	Altered protein quality control in heart tissue of patients with hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2018, 120, 11-12.	0.9	0
79	Sex-differences in diastolic dysfunction in hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2018, 120, 29.	0.9	0
80	Mosaic cardiac myosin binding protein-C expression due to MYBPC3 mutation in hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2018, 120, 30.	0.9	0
81	Location-specific effects of Hypertrophic Cardiomyopathy-causing Troponin T mutations. Journal of Molecular and Cellular Cardiology, 2018, 120, 31.	0.9	0
82	PKA's favorite son: prioritizing phosphorylation of phospholamban over cardiac troponin I contributes to diastolic dysfunction in hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2018, 120, 39-40.	0.9	0
83	Impact of glycated proteins on cardiomyocyte function. Journal of Molecular and Cellular Cardiology, 2018, 120, 15.	0.9	0
84	Contractile properties of cardiomyocytes do not differ between obstructive and end-stage hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2018, 120, 29-30.	0.9	0
85	Empagliflozin for heart failure with preserved ejection fraction: targeting cardiac endothelial cell-cardiomyocyte interaction. Journal of Molecular and Cellular Cardiology, 2018, 120, 27-28.	0.9	0
86	Cardiomyopathy-related Tropomyosin mutations impair calcium handling: the influence of mutation location. Journal of Molecular and Cellular Cardiology, 2018, 120, 43-44.	0.9	0
87	Proteomic profiling of a large cohort of HCM patients: Genotype-specific protein changes. Journal of Molecular and Cellular Cardiology, 2020, 140, 7.	0.9	0
88	Nuclear protein extraction from frozen porcine myocardium. FASEB Journal, 2009, 23, LB246.	0.2	0
89	Enzyme-linked immunosorbent assay is a viable method for determining release kinetics of cardiac myosin binding protein-C following isoproterenol-induced cardiac injury (1073.8). FASEB Journal, 2014, 28, 1073.8.	0.2	0
90	493-P: Cardiac Microvascular Endothelial Enhancement of Cardiomyocyte Function Is Impaired by Uremic Serum and Restored by Empagliflozin. Diabetes, 2020, 69, .	0.3	0

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91	Cardiac muscle disease and therapeutic targets. <i>Journal of General Physiology</i> , 2022, 154, .	0.9	0