

# Ralph KnÄ¶ll

## List of Publications by Year in descending order

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89  
papers

3,884  
citations

159585

30  
h-index

128289

60  
g-index

94  
all docs

94  
docs citations

94  
times ranked

5225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibiting cardiac myeloperoxidase alleviates the relaxation defect in hypertrophic cardiomyocytes. <i>Cardiovascular Research</i> , 2022, 118, 517-530.	3.8	27
2	Targeted therapies in genetic dilated and hypertrophic cardiomyopathies: from molecular mechanisms to therapeutic targets. A position paper from the Heart Failure Association (HFA) and the Working Group on Myocardial Function of the European Society of Cardiology (ESC). <i>European Journal of Heart Failure</i> , 2022, 24, 406-420.	7.1	22
3	Antisense Therapy Attenuates Phospholamban p.(Arg14del) Cardiomyopathy in Mice and Reverses Protein Aggregation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2427.	4.1	5
4	The Combined Human Genotype of Truncating TTN and RBM20 Mutations Is Associated with Severe and Early Onset of Dilated Cardiomyopathy. <i>Genes</i> , 2021, 12, 883.	2.4	15
5	Phospholamban antisense oligonucleotides improve cardiac function in murine cardiomyopathy. <i>Nature Communications</i> , 2021, 12, 5180.	12.8	24
6	Titin kinase ubiquitination aligns autophagy receptors with mechanical signals in the sarcomere. <i>EMBO Reports</i> , 2021, 22, e48018.	4.5	22
7	Nitro-Oleic Acid (NO <sub>2</sub> -OA) Improves Systolic Function in Dilated Cardiomyopathy by Attenuating Myocardial Fibrosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9052.	4.1	6
8	Titin M-line insertion sequence 7 is required for proper cardiac function in mice. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	1
9	Truncated titin proteins and titin haploinsufficiency are targets for functional recovery in human cardiomyopathy due to <i>TTN</i> mutations. <i>Science Translational Medicine</i> , 2021, 13, eabd3079.	12.4	59
10	Myopalladin promotes muscle growth through modulation of the serum response factor pathway. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 169-194.	7.3	26
11	Control of p21 <sup>Cip</sup> by BRCA1-associated protein is critical for cardiomyocyte cell cycle progression and survival. <i>Cardiovascular Research</i> , 2020, 116, 592-604.	3.8	9
12	Cell shape determines gene expression: cardiomyocyte morphotypic transcriptomes. <i>Basic Research in Cardiology</i> , 2020, 115, 7.	5.9	14
13	Epigenetics and Heart Failure. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9010.	4.1	10
14	Cell shape: effects on gene expression and signaling. <i>Biophysical Reviews</i> , 2020, 12, 895-901.	3.2	21
15	The Degree of Cardiac Remodelling before Overload Relief Triggers Different Transcriptome and miRome Signatures during Reverse Remodelling (RR) – Molecular Signature Differ with the Extent of RR. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9687.	4.1	1
16	Distinct Myocardial Transcriptomic Profiles of Cardiomyopathies Stratified by the Mutant Genes. <i>Genes</i> , 2020, 11, 1430.	2.4	9
17	An Approach to Study Shape-Dependent Transcriptomics at a Single Cell Level. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	3
18	Myosin binding protein-C and hypertrophic cardiomyopathy: role of altered C10 domain. <i>Cardiovascular Research</i> , 2019, 115, 1943-1945.	3.8	5

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19	Association of intronic DNA methylation and hydroxymethylation alterations in the epigenetic etiology of dilated cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H168-H180.	3.2	22
20	Titin splicing regulates cardiotoxicity associated with calpain 3 gene therapy for limb-girdle muscular dystrophy type 2A. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	19
21	In vivo genome and base editing of a human PCSK9 knock-in hypercholesterolemic mouse model. <i>BMC Biology</i> , 2019, 17, 4.	3.8	59
22	Mouse Models to Study Inherited Cardiomyopathy. <i>Cardiac and Vascular Biology</i> , 2019, , 289-312.	0.2	0
23	Abstract 772: The Highly Prevalent 25bp Intronic Deletion in <i>MYBPC3</i> is Benign Under Baseline Conditions. <i>Circulation Research</i> , 2019, 125, .	4.5	1
24	Association of Cardiomyopathy With <i>MYBPC3</i> D389V and <i>MYBPC3</i> <sup>Δ25bp</sup> Intronic Deletion in South Asian Descendants. <i>JAMA Cardiology</i> , 2018, 3, 481.	6.1	31
25	P500Cell shape determines gene expression: cardiomyocyte morphotypic transcriptomes. <i>Cardiovascular Research</i> , 2018, 114, S121-S121.	3.8	0
26	Abstract 373: The Molecular Consequence of a Polymorphic 25bp Deletion in Intron 32 of <i>MYBPC3</i> , Specific to South Asians. <i>Circulation Research</i> , 2018, 123, .	4.5	0
27	An inverse problem approach to identify the internal force of a mechanosensation process in a cardiac myocyte. <i>Informatics in Medicine Unlocked</i> , 2017, 6, 36-42.	3.4	2
28	Genetic epidemiology of titin-truncating variants in the etiology of dilated cardiomyopathy. <i>Biophysical Reviews</i> , 2017, 9, 207-223.	3.2	55
29	The Sydney Heart Bank: improving translational research while eliminating or reducing the use of animal models of human heart disease. <i>Biophysical Reviews</i> , 2017, 9, 431-441.	3.2	39
30	Abnormal contractility in human heart myofibrils from patients with dilated cardiomyopathy due to mutations in <i>TTN</i> and contractile protein genes. <i>Scientific Reports</i> , 2017, 7, 14829.	3.3	40
31	Recent Advances in the Molecular Genetics of Familial Hypertrophic Cardiomyopathy in South Asian Descendants. <i>Frontiers in Physiology</i> , 2016, 7, 499.	2.8	13
32	Molecular disturbance underlies to arrhythmogenic cardiomyopathy induced by transgene content, age and exercise in a truncated <i>PKP2</i> mouse model. <i>Human Molecular Genetics</i> , 2016, 25, 3676-3688.	2.9	23
33	Desmin, desminopathy and the complexity of genetics. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 92, 93-95.	1.9	18
34	Obscurin Mutations Cause Haploinsufficiency and are Common in Patients with Familial Dilated Cardiomyopathy (FDCM). <i>Biophysical Journal</i> , 2015, 108, 292a.	0.5	0
35	OBSCN Mutations Associated with Dilated Cardiomyopathy and Haploinsufficiency. <i>PLoS ONE</i> , 2015, 10, e0138568.	2.5	70
36	<i>ZBTB17</i> ( <i>MIZ1</i> ) Is Important for the Cardiac Stress Response and a Novel Candidate Gene for Cardiomyopathy and Heart Failure. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 643-652.	5.1	12

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37	A role for membrane shape and information processing in cardiac physiology. Pflugers Archiv European Journal of Physiology, 2015, 467, 167-173.	2.8	13
38	Melusin protects from cardiac rupture and improves functional remodelling after myocardial infarction. Cardiovascular Research, 2014, 101, 97-107.	3.8	46
39	<sc>ESC</sc> Working Group on Myocardial Function Position Paper: how to study the right ventricle in experimental models. European Journal of Heart Failure, 2014, 16, 509-518.	7.1	11
40	Targeting myocardial remodelling to develop novel therapies for heart failure. European Journal of Heart Failure, 2014, 16, 494-508.	7.1	90
41	Mechano-signaling in heart failure. Pflugers Archiv European Journal of Physiology, 2014, 466, 1093-1099.	2.8	31
42	Z-disc Transcriptional Coupling, Sarcomeroptosis and Mechanoptosis. Cell Biochemistry and Biophysics, 2013, 66, 65-71.	1.8	15
43	A critical role for Telethonin in regulating t-tubule structure and function in the mammalian heart. Human Molecular Genetics, 2013, 22, 372-383.	2.9	50
44	Response to Letter Regarding Article "Adipose Tissue Inflammation and Adiponectin Resistance in Patients With Advanced Heart Failure: Correction After Ventricular Assist Device Implantation" Circulation: Heart Failure, 2012, 5, .	3.9	0
45	Age-dependent changes in contractile function and passive elastic properties of myocardium from mice lacking muscle LIM protein (MLP). European Journal of Heart Failure, 2012, 14, 430-437.	7.1	11
46	Adipose Tissue Inflammation and Adiponectin Resistance in Patients With Advanced Heart Failure. Circulation: Heart Failure, 2012, 5, 340-348.	3.9	86
47	Ventricular Assist Device Implantation Corrects Myocardial Lipotoxicity, Reverses Insulin Resistance, and Normalizes Cardiac Metabolism in Patients With Advanced Heart Failure. Circulation, 2012, 125, 2844-2853.	1.6	232
48	Cardiomyopathy - Associated W4R Variant of Muscle LIM Protein affects Skeletal Muscle Passive Mechanics. Biophysical Journal, 2012, 102, 361a.	0.5	0
49	Renal Denervation and Treatment of Hypertension. High Blood Pressure and Cardiovascular Prevention, 2012, 19, 5-9.	2.2	0
50	On Mechanosensation, Acto/Myosin Interaction, and Hypertrophy. Trends in Cardiovascular Medicine, 2012, 22, 17-22.	4.9	8
51	Myosin binding protein C: implications for signal-transduction. Journal of Muscle Research and Cell Motility, 2012, 33, 31-42.	2.0	32
52	MLP (muscle LIM protein) as a stress sensor in the heart. Pflugers Archiv European Journal of Physiology, 2011, 462, 135-142.	2.8	59
53	Genetics of Mechanosensation in the Heart. Journal of Cardiovascular Translational Research, 2011, 4, 238-244.	2.4	21
54	Towards a redefinition of "cardiac hypertrophy" through a rational characterization of left ventricular phenotypes: a position paper of the Working Group "Myocardial Function" of the ESC. European Journal of Heart Failure, 2011, 13, 811-819.	7.1	53

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55	Teletonin Deficiency Is Associated With Maladaptation to Biomechanical Stress in the Mammalian Heart. <i>Circulation Research</i> , 2011, 109, 758-769.	4.5	78
56	The Sarcomeric Z-Disc and Z-Discopathies. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-12.	3.0	100
57	A Common <i>MLP</i> (Muscle LIM Protein) Variant Is Associated With Cardiomyopathy. <i>Circulation Research</i> , 2010, 106, 695-704.	4.5	90
58	Response to Gehmlich et al. Letter to the Editor of the Journal of Molecular and Cellular Cardiology Regarding <i>MLP</i> : A Stress Sensor Goes Nuclear. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 426-427.	1.9	2
59	Corrigendum to <i>MLP</i> : A stress sensor goes nuclear [J. Mol. Cell. Cardiol. 47 (2009) 423-425]. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 807.	1.9	0
60	Melusin gene ( <i>ITGB1BP2</i> ) nucleotide variations study in hypertensive and cardiopathic patients. <i>BMC Medical Genetics</i> , 2009, 10, 140.	2.1	12
61	Muscle Research and Gene Ontology: New standards for improved data integration. <i>BMC Medical Genomics</i> , 2009, 2, 6.	1.5	16
62	<i>MLP</i> : A stress sensor goes nuclear. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 423-425.	1.9	16
63	Zebrafish integrin-linked kinase is required in skeletal muscles for strengthening the integrin-ECM adhesion complex. <i>Developmental Biology</i> , 2008, 318, 92-101.	2.0	95
64	Human Mutation in the Anti-apoptotic Heat Shock Protein 20 Abrogates Its Cardioprotective Effects. <i>Journal of Biological Chemistry</i> , 2008, 283, 33465-33471.	3.4	45
65	Disease-Modifying Mutations in Familial Hypertrophic Cardiomyopathy. <i>Circulation</i> , 2008, 117, 1775-1777.	1.6	10
66	Elevated Afterload, Neuroendocrine Stimulation, and Human Heart Failure Increase BNP Levels and Inhibit Preload-Dependent SERCA Upregulation. <i>Circulation: Heart Failure</i> , 2008, 1, 265-271.	3.9	24
67	Laminin-4 and Integrin-Linked Kinase Mutations Cause Human Cardiomyopathy Via Simultaneous Defects in Cardiomyocytes and Endothelial Cells. <i>Circulation</i> , 2007, 116, 515-525.	1.6	206
68	Personalized nutrition: an integrative process to success. <i>Genes and Nutrition</i> , 2007, 2, 23-25.	2.5	8
69	Reversal of Calcium Cycling Defects in Advanced Heart Failure. <i>Journal of the American College of Cardiology</i> , 2006, 48, A15-A23.	2.8	33
70	Relevance of Brain Natriuretic Peptide in Preload-Dependent Regulation of Cardiac Sarcoplasmic Reticulum Ca <sup>2+</sup> ATPase Expression. <i>Circulation</i> , 2006, 113, 2724-2732.	1.6	57
71	Assessment of multiple displacement amplification for polymorphism discovery and haplotype determination at a highly polymorphic locus, <i>MC1R</i> . <i>Human Mutation</i> , 2005, 26, 145-152.	2.5	29
72	Asymmetric septal hypertrophy in heterozygous <i>cMyBP-C</i> null mice. <i>Cardiovascular Research</i> , 2004, 63, 293-304.	3.8	129

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73	Mechanisms of dilated cardiomyopathies. <i>Drug Discovery Today Disease Mechanisms</i> , 2004, 1, 31-36.	0.8	0
74	Tcap gene mutations in hypertrophic cardiomyopathy and dilated cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2004, 44, 2192-2201.	2.8	271
75	Cardiac mechanotransduction and implications for heart disease. <i>Journal of Molecular Medicine</i> , 2003, 81, 750-756.	3.9	86
76	Anisotropic stretch-induced hypertrophy in neonatal ventricular myocytes micropatterned on deformable elastomers. <i>Biotechnology and Bioengineering</i> , 2003, 81, 578-587.	3.3	183
77	Z-line proteins: implications for additional functions. <i>European Heart Journal Supplements</i> , 2002, 4, I13-I17.	0.1	10
78	The Cardiac Mechanical Stretch Sensor Machinery Involves a Z Disc Complex that Is Defective in a Subset of Human Dilated Cardiomyopathy. <i>Cell</i> , 2002, 111, 943-955.	28.9	712
79	Targeted inactivation of the murine cardiac myosin-binding protein C gene leads to hypertrophic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, A15.	1.9	0
80	The MLP Family of Cytoskeletal Z Disc Proteins and Dilated Cardiomyopathy: A Stress Pathway Model for Heart Failure Progression. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2002, 67, 399-408.	1.1	12
81	Muscle LIM protein in heart failure. <i>Experimental and Clinical Cardiology</i> , 2002, 7, 104-5.	1.3	6
82	Role of Adenosine in the Hypoxic Induction of Vascular Endothelial Growth Factor in Porcine Brain Derived Microvascular Endothelial Cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 1997, 5, 155-165.	1.7	22
83	Characterization of Differentially Expressed Genes following Brief Cardiac Ischemia. <i>Biochemical and Biophysical Research Communications</i> , 1996, 221, 402-407.	2.1	10
84	Altered Gene Transcription Following Brief Episodes of Coronary Occlusions. <i>Advances in Experimental Medicine and Biology</i> , 1995, 382, 175-183.	1.6	0
85	Patterns of Myocardial Gene Expression after Cycles of Brief Coronary Occlusion and Reperfusion. <i>Annals of the New York Academy of Sciences</i> , 1994, 723, 284-291.	3.8	10
86	Expression and Immunohistochemical Localization of Heat-Shock Protein-70 in Preconditioned Porcine Myocardium. <i>Annals of the New York Academy of Sciences</i> , 1994, 723, 491-494.	3.8	16
87	Changes in gene expression following short coronary occlusions studied in porcine hearts with run-on assays. <i>Cardiovascular Research</i> , 1994, 28, 1062-1069.	3.8	42
88	Enhanced gene expression of calcium regulatory proteins in stunned porcine myocardium. <i>Cardiovascular Research</i> , 1993, 27, 2037-2043.	3.8	48
89	Expression of heat shock proteins in the normal and stunned porcine myocardium. <i>Cardiovascular Research</i> , 1993, 27, 1421-1429.	3.8	63