

Benjamin Meder

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

7,349
citations

57758

44
h-index

60623

81
g-index

134
all docs

134
docs citations

134
times ranked

12218
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of miRNA expression across human tissues. <i>Nucleic Acids Research</i> , 2016, 44, 3865-3877.	14.5	836
2	Atlas of the clinical genetics of human dilated cardiomyopathy. <i>European Heart Journal</i> , 2015, 36, 1123-1135.	2.2	456
3	A blood based 12-miRNA signature of Alzheimer disease patients. <i>Genome Biology</i> , 2013, 14, R78.	9.6	438
4	Toward the blood-borne miRNome of human diseases. <i>Nature Methods</i> , 2011, 8, 841-843.	19.0	339
5	MicroRNA signatures in total peripheral blood as novel biomarkers for acute myocardial infarction. <i>Basic Research in Cardiology</i> , 2011, 106, 13-23.	5.9	242
6	Assessment of myocardial deformation with cardiac magnetic resonance strain imaging improves risk stratification in patients with dilated cardiomyopathy. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 307-315.	1.2	211
7	Alterations in cardiac DNA methylation in human dilated cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2013, 5, 413-429.	6.9	210
8	Clinical genetics and outcome of left ventricular non-compaction cardiomyopathy. <i>European Heart Journal</i> , 2017, 38, 3449-3460.	2.2	168
9	Genotype-phenotype associations in dilated cardiomyopathy: meta-analysis on more than 8000 individuals. <i>Clinical Research in Cardiology</i> , 2017, 106, 127-139.	3.3	156
10	Targeted Next-Generation Sequencing for the Molecular Genetic Diagnostics of Cardiomyopathies. <i>Circulation: Cardiovascular Genetics</i> , 2011, 4, 110-122.	5.1	155
11	Epigenome-Wide Association Study Identifies Cardiac Gene Patterning and a Novel Class of Biomarkers for Heart Failure. <i>Circulation</i> , 2017, 136, 1528-1544.	1.6	139
12	A genome-wide association study identifies 6p21 as novel risk locus for dilated cardiomyopathy. <i>European Heart Journal</i> , 2014, 35, 1069-1077.	2.2	137
13	The Symptom Complex of Familial Sinus Node Dysfunction and Myocardial Noncompaction Is Associated With Mutations in the HCN4 Channel. <i>Journal of the American College of Cardiology</i> , 2014, 64, 757-767.	2.8	128
14	Catecholamine-Dependent β^2 -Adrenergic Signaling in a Pluripotent Stem Cell Model of Takotsubo Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2017, 70, 975-991.	2.8	124
15	Comprehensive analysis of microRNA profiles in multiple sclerosis including next-generation sequencing. <i>Multiple Sclerosis Journal</i> , 2014, 20, 295-303.	3.0	115
16	Mavacamten Favorably Impacts Cardiac Structure in Obstructive Hypertrophic Cardiomyopathy. <i>Circulation</i> , 2021, 143, 606-608.	1.6	109
17	Multivariate miRNA signatures as biomarkers for non-ischæmic systolic heart failure. <i>European Heart Journal</i> , 2013, 34, 2812-2823.	2.2	99
18	miRTargetLink™ miRNAs, Genes and Interaction Networks. <i>International Journal of Molecular Sciences</i> , 2016, 17, 564.	4.1	99

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19	Clinical outcomes associated with sarcomere mutations in hypertrophic cardiomyopathy: a meta-analysis on 7675 individuals. <i>Clinical Research in Cardiology</i> , 2018, 107, 30-41.	3.3	99
20	A mutation in the glutamate-rich region of RNA-binding motif protein 20 causes dilated cardiomyopathy through missplicing of titin and impaired Frank-Starling mechanism. <i>Cardiovascular Research</i> , 2016, 112, 452-463.	3.8	97
21	Regional Variation in <i>RBM20</i> Causes a Highly Penetrant Arrhythmogenic Cardiomyopathy. <i>Circulation: Heart Failure</i> , 2019, 12, e005371.	3.9	96
22	Complex roads from genotype to phenotype in dilated cardiomyopathy: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2018, 114, 1287-1303.	3.8	91
23	Immune system-mediated atherosclerosis caused by deficiency of long non-coding RNA <i>MALAT1</i> in <i>ApoE^{-/-}</i> mice. <i>Cardiovascular Research</i> , 2019, 115, 302-314.	3.8	89
24	Long noncoding RNA NEAT1 modulates immune cell functions and is suppressed in early onset myocardial infarction patients. <i>Cardiovascular Research</i> , 2019, 115, 1886-1906.	3.8	86
25	Influence of the Confounding Factors Age and Sex on MicroRNA Profiles from Peripheral Blood. <i>Clinical Chemistry</i> , 2014, 60, 1200-1208.	3.2	84
26	Severe DCM phenotype of patient harboring <i>RBM20</i> mutation S635A can be modeled by patient-specific induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 113, 9-21.	1.9	84
27	Evaluating the Use of Circulating MicroRNA Profiles for Lung Cancer Detection in Symptomatic Patients. <i>JAMA Oncology</i> , 2020, 6, 714.	7.1	84
28	Biomarker Changes after Strenuous Exercise Can Mimic Pulmonary Embolism and Cardiac Injury—A Metaanalysis of 45 Studies. <i>Clinical Chemistry</i> , 2015, 61, 1246-1255.	3.2	81
29	The current role of next-generation DNA sequencing in routine care of patients with hereditary cardiovascular conditions: a viewpoint paper of the European Society of Cardiology working group on myocardial and pericardial diseases and members of the European Society of Human Genetics. <i>European Heart Journal</i> , 2015, 36, 1367-1370.	2.2	75
30	miRNAs can be generally associated with human pathologies as exemplified for miR-144*. <i>BMC Medicine</i> , 2014, 12, 224.	5.5	74
31	Natural genetic variation of the cardiac transcriptome in non-diseased donors and patients with dilated cardiomyopathy. <i>Genome Biology</i> , 2017, 18, 170.	8.8	70
32	Towards Personalized Cardiology: Multi-Scale Modeling of the Failing Heart. <i>PLoS ONE</i> , 2015, 10, e0134869.	2.5	65
33	Web-based NGS data analysis using miRMaster: a large-scale meta-analysis of human miRNAs. <i>Nucleic Acids Research</i> , 2017, 45, 8731-8744.	14.5	63
34	Next-generation sequencing identifies novel microRNAs in peripheral blood of lung cancer patients. <i>Molecular BioSystems</i> , 2011, 7, 3187.	2.9	62
35	Identification and Functional Characterization of Hypoxia-Induced Endoplasmic Reticulum Stress Regulating lncRNA (HypERlnc) in Pericytes. <i>Circulation Research</i> , 2017, 121, 368-375.	4.5	61
36	Clinical and genetic insights into non-compaction: a meta-analysis and systematic review on 7598 individuals. <i>Clinical Research in Cardiology</i> , 2019, 108, 1297-1308.	3.3	61

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37	The human miRNA repertoire of different blood compounds. BMC Genomics, 2014, 15, 474.	2.8	59
38	Bias in High-Throughput Analysis of miRNAs and Implications for Biomarker Studies. Analytical Chemistry, 2016, 88, 2088-2095.	6.5	57
39	A Single Serine in the Carboxyl Terminus of Cardiac Essential Myosin Light Chain-1 Controls Cardiomyocyte Contractility In Vivo. Circulation Research, 2009, 104, 650-659.	4.5	56
40	Validating Alzheimer's disease micro RNAs using next-generation sequencing. Alzheimer's and Dementia, 2016, 12, 565-576.	0.8	53
41	Refining Diagnostic MicroRNA Signatures by Whole-miRNome Kinetic Analysis in Acute Myocardial Infarction. Clinical Chemistry, 2013, 59, 410-418.	3.2	52
42	Prioritizing and selecting likely novel miRNAs from NGS data. Nucleic Acids Research, 2016, 44, e53-e53.	14.5	52
43	Left ventricular long axis strain: a new prognosticator in non-ischemic dilated cardiomyopathy?. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 36.	3.3	51
44	Improvements of Procedural Results With a New-Generation Self-Expanding Transfemoral Aortic Valve Prosthesis in Comparison to the Old-Generation Device. Journal of Interventional Cardiology, 2017, 30, 72-78.	1.2	48
45	Common diseases alter the physiological age-related blood microRNA profile. Nature Communications, 2020, 11, 5958.	12.8	46
46	Right into the heart of microRNA-133a: Figure 1.. Genes and Development, 2008, 22, 3227-3231.	5.9	43
47	Genomic structural variations lead to dysregulation of important coding and non-coding RNA species in dilated cardiomyopathy. EMBO Molecular Medicine, 2018, 10, 107-120.	6.9	43
48	Data-driven estimation of cardiac electrical diffusivity from 12-lead ECG signals. Medical Image Analysis, 2014, 18, 1361-1376.	11.6	42
49	Age-Related Variations in Takotsubo Syndrome. Journal of the American College of Cardiology, 2020, 75, 1869-1877.	2.8	42
50	PINCH Proteins Regulate Cardiac Contractility by Modulating Integrin-Linked Kinase-Protein Kinase B Signaling. Molecular and Cellular Biology, 2011, 31, 3424-3435.	2.3	41
51	iPSC Modeling of RBM20-Deficient DCM Identifies Upregulation of RBM20 as a Therapeutic Strategy. Cell Reports, 2020, 32, 108117.	6.4	40
52	Familial Recurrent Myocarditis Triggered by Exercise in Patients With a Truncating Variant of the Desmoplakin Gene. Journal of the American Heart Association, 2020, 9, e015289.	3.7	39
53	miRTrail - a comprehensive webserver for analyzing gene and miRNA patterns to enhance the understanding of regulatory mechanisms in diseases. BMC Bioinformatics, 2012, 13, 36.	2.6	36
54	Next-Generation Sequencing: From Understanding Biology to Personalized Medicine. Biology, 2013, 2, 378-398.	2.8	35

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55	miRNAs and sports: tracking training status and potentially confounding diagnoses. <i>Journal of Translational Medicine</i> , 2016, 14, 219.	4.4	31
56	A human cell atlas of the pressure-induced hypertrophic heart. , 2022, 1, 174-185.		30
57	MicroRNA In Vitro Diagnostics Using Immunoassay Analyzers. <i>Clinical Chemistry</i> , 2015, 61, 600-607.	3.2	29
58	New insights into the genetics of glioblastoma multiforme by familial exome sequencing. <i>Oncotarget</i> , 2015, 6, 5918-5931.	1.8	28
59	Reconstitution of defective protein trafficking rescues Long-QT syndrome in zebrafish. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 218-224.	2.1	27
60	Next-generation sequencing identifies altered whole blood microRNAs in neuromyelitis optica spectrum disorder which may permit discrimination from multiple sclerosis. <i>Journal of Neuroinflammation</i> , 2015, 12, 196.	7.2	27
61	Dual Functional States of R406W-Desmin Assembly Complexes Cause Cardiomyopathy With Severe Intercalated Disc Derangement in Humans and in Knock-In Mice. <i>Circulation</i> , 2020, 142, 2155-2171.	1.6	27
62	Silencing the CSF-1 Axis Using Nanoparticle Encapsulated siRNA Mitigates Viral and Autoimmune Myocarditis. <i>Frontiers in Immunology</i> , 2018, 9, 2303.	4.8	26
63	Nucleoside Diphosphate Kinase-C Suppresses cAMP Formation in Human Heart Failure. <i>Circulation</i> , 2017, 135, 881-897.	1.6	24
64	A high-resolution map of the human small non-coding transcriptome. <i>Bioinformatics</i> , 2018, 34, 1621-1628.	4.1	24
65	Single-molecule, full-length transcript isoform sequencing reveals disease-associated RNA isoforms in cardiomyocytes. <i>Nature Communications</i> , 2021, 12, 4203.	12.8	24
66	Comparative Transcriptomics of Immune Checkpoint Inhibitor Myocarditis Identifies Guanylate Binding Protein 5 and 6 Dysregulation. <i>Cancers</i> , 2021, 13, 2498.	3.7	23
67	JunB-CBF β signaling is essential to maintain sarcomeric Z-disc structure and when defective leads to heart failure. <i>Journal of Cell Science</i> , 2010, 123, 2613-2620.	2.0	22
68	Influence of Next-Generation Sequencing and Storage Conditions on miRNA Patterns Generated from PAXgene Blood. <i>Analytical Chemistry</i> , 2015, 87, 8910-8916.	6.5	22
69	Involvement of BAG3 and HSPB7 loci in various etiologies of systolic heart failure: Results of a European collaboration assembling more than 2000 patients. <i>International Journal of Cardiology</i> , 2015, 189, 105-107.	1.7	22
70	Deep Characterization of Circular RNAs from Human Cardiovascular Cell Models and Cardiac Tissue. <i>Cells</i> , 2020, 9, 1616.	4.1	22
71	Post cardiac injury syndrome after initially uncomplicated CRT-D implantation: a case report and a systematic review. <i>Clinical Research in Cardiology</i> , 2014, 103, 781-789.	3.3	21
72	Myoscape controls cardiac calcium cycling and contractility via regulation of L-type calcium channel surface expression. <i>Nature Communications</i> , 2016, 7, 11317.	12.8	20

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73	A self-taught artificial agent for multi-physics computational model personalization. <i>Medical Image Analysis</i> , 2016, 34, 52-64.	11.6	20
74	Predicting sustained ventricular arrhythmias in dilated cardiomyopathy: a meta-analysis and systematic review. <i>ESC Heart Failure</i> , 2020, 7, 1430-1441.	3.1	20
75	Energy Metabolites as Biomarkers in Ischemic and Dilated Cardiomyopathy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1999.	4.1	20
76	RBM20-Related Cardiomyopathy: Current Understanding and Future Options. <i>Journal of Clinical Medicine</i> , 2021, 10, 4101.	2.4	20
77	So rare we need to hunt for them: reframing the ethical debate on incidental findings. <i>Genome Medicine</i> , 2015, 7, 83.	8.2	19
78	The prognostic value of right ventricular long axis strain in non-ischaemic dilated cardiomyopathies using standard cardiac magnetic resonance imaging. <i>European Radiology</i> , 2017, 27, 3913-3923.	4.5	18
79	Impact of Atrial Fibrillation on Outcome in Takotsubo Syndrome: Data From the International Takotsubo Registry. <i>Journal of the American Heart Association</i> , 2021, 10, e014059.	3.7	18
80	miRNAs in ancient tissue specimens of the Tyrolean Iceman. <i>Molecular Biology and Evolution</i> , 2017, 34, msw291.	8.9	17
81	RNA splicing regulated by RBFOX1 is essential for cardiac function in zebrafish. <i>Journal of Cell Science</i> , 2015, 128, 3030-40.	2.0	16
82	Machine learning-based risk prediction of intrahospital clinical outcomes in patients undergoing TAVI. <i>Clinical Research in Cardiology</i> , 2021, 110, 343-356.	3.3	16
83	Double-Stranded Ligation Assay for the Rapid Multiplex Quantification of MicroRNAs. <i>Analytical Chemistry</i> , 2015, 87, 12104-12111.	6.5	15
84	Deep characterization of blood cell miRNomes by NGS. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3169-3181.	5.4	15
85	Non-invasive imaging as the cornerstone of cardiovascular precision medicine. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 465-475.	1.2	15
86	Left Ventricular Biopsy in the Diagnosis of Myocardial Diseases. <i>Circulation</i> , 2018, 137, 993-995.	1.6	14
87	Prevalence and clinical outcomes of dystrophin-associated dilated cardiomyopathy without severe skeletal myopathy. <i>European Journal of Heart Failure</i> , 2021, 23, 1276-1286.	7.1	14
88	Clinical and Genetic Investigations of 109 Index Patients With Dilated Cardiomyopathy and 445 of Their Relatives. <i>Circulation: Heart Failure</i> , 2020, 13, e006701.	3.9	12
89	Epigenetic Regulation of Alternative mRNA Splicing in Dilated Cardiomyopathy. <i>Journal of Clinical Medicine</i> , 2020, 9, 1499.	2.4	11
90	miFRame: analysis and visualization of miRNA sequencing data in neurological disorders. <i>Journal of Translational Medicine</i> , 2015, 13, 224.	4.4	10

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91	Genetic Reduction in Left Ventricular Protein Kinase C- β and Adverse Ventricular Remodeling in Human Subjects. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e001901.	3.6	10
92	The chameleon of cardiology: cardiac sarcoidosis before and after heart transplantation. <i>ESC Heart Failure</i> , 2020, 7, 692-696.	3.1	10
93	Generation of pluripotent stem cell lines and CRISPR/Cas9 modified isogenic controls from a patient with dilated cardiomyopathy harboring a RBM20 p.R634W mutation. <i>Stem Cell Research</i> , 2020, 47, 101901.	0.7	10
94	Doxorubicin induces cardiotoxicity in a pluripotent stem cell model of aggressive B cell lymphoma cancer patients. <i>Basic Research in Cardiology</i> , 2022, 117, 13.	5.9	10
95	BALL-SNP: combining genetic and structural information to identify candidate non-synonymous single nucleotide polymorphisms. <i>Genome Medicine</i> , 2015, 7, 65.	8.2	9
96	The Role of Quality Control in Targeted Next-generation Sequencing Library Preparation. <i>Genomics, Proteomics and Bioinformatics</i> , 2016, 14, 200-206.	6.9	9
97	A novel risk model for predicting potentially life-threatening arrhythmias in non-ischemic dilated cardiomyopathy (DCM-SVA risk). <i>International Journal of Cardiology</i> , 2021, 339, 75-82.	1.7	9
98	Determined to Fail – the Role of Genetic Mechanisms in Heart Failure. <i>Current Heart Failure Reports</i> , 2015, 12, 333-338.	3.3	8
99	Pathway-based variant enrichment analysis on the example of dilated cardiomyopathy. <i>Human Genetics</i> , 2016, 135, 31-40.	3.8	8
100	Unidimensional Longitudinal Strain: A Simple Approach for the Assessment of Longitudinal Myocardial Deformation by Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 733-742.	2.8	8
101	Prognostic impact of acute pulmonary triggers in patients with takotsubo syndrome: new insights from the International Takotsubo Registry. <i>ESC Heart Failure</i> , 2021, 8, 1924-1932.	3.1	8
102	Fast Data-Driven Calibration of a Cardiac Electrophysiology Model from Images and ECG. <i>Lecture Notes in Computer Science</i> , 2013, 16, 1-8.	1.3	8
103	Pathophysiological background and prognostic implication of systolic aortic root motion in non-ischemic dilated cardiomyopathy. <i>Scientific Reports</i> , 2019, 9, 3866.	3.3	7
104	Missense Variant E1295K of Sodium Channel SCN5A Associated With Recurrent Ventricular Fibrillation and Myocardial Inflammation. <i>JACC: Case Reports</i> , 2022, 4, 280-286.	0.6	7
105	microRNA assays for acute coronary syndromes. <i>Diagnosis</i> , 2016, 3, 183-188.	1.9	6
106	Personalized Computer Simulation of Diastolic Function in Heart Failure. <i>Genomics, Proteomics and Bioinformatics</i> , 2016, 14, 244-252.	6.9	6
107	microRNA neural networks improve diagnosis of acute coronary syndrome (ACS). <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 151, 155-162.	1.9	6
108	Periprocedural antibiotic treatment in transvascular aortic valve replacement. <i>Journal of Interventional Cardiology</i> , 2018, 31, 885-890.	1.2	5

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109	ANK2 functionally interacts with KCNH2 aggravating long QT syndrome in a double mutation carrier. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 845-851.	2.1	5
110	Targeted next-generation sequencing: the clinician's stethoscope for genetic disorders. <i>Personalized Medicine</i> , 2014, 11, 581-592.	1.5	4
111	Postcardiac injury syndrome after cardiac implantable electronic device implantation. <i>Herz</i> , 2020, 45, 696-702.	1.1	4
112	SLM2 Is A Novel Cardiac Splicing Factor Involved in Heart Failure due to Dilated Cardiomyopathy. <i>Genomics, Proteomics and Bioinformatics</i> , 2022, 20, 129-146.	6.9	4
113	Marathon-Induced Cardiac Strain as Model for the Evaluation of Diagnostic microRNAs for Acute Myocardial Infarction. <i>Journal of Clinical Medicine</i> , 2022, 11, 5.	2.4	4
114	Targeted Analysis of circRNA Expression in Patient Samples by Lexo-circSeq. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	3.5	4
115	Automatic image-to-model framework for patient-specific electromechanical modeling of the heart. , 2014, , .		3
116	Controlling my genome with my smartphone: first clinical experiences of the PROMISE system. <i>Clinical Research in Cardiology</i> , 2021, , 1.	3.3	3
117	Computational Cardiology " A New Discipline of Translational Research. <i>Genomics, Proteomics and Bioinformatics</i> , 2016, 14, 177-178.	6.9	2
118	From Single Variants to Protein Cascades. <i>Journal of Biological Chemistry</i> , 2016, 291, 1582-1590.	3.4	2
119	Two Hearts at Risk. <i>JACC: Case Reports</i> , 2020, 2, 139-144.	0.6	2
120	Cardiac Myxoma in a Patient With Hypertrophic Cardiomyopathy. <i>JACC: Case Reports</i> , 2020, 2, 378-383.	0.6	2
121	Pulmonary vein isolation treats symptomatic AF in a patient with Lamin A/C mutation: case report and review of the literature. <i>Clinical Research in Cardiology</i> , 2020, 109, 1070-1075.	3.3	1
122	The Patient as Genomic Data Manager - Evaluation of the PROMISE App. <i>Studies in Health Technology and Informatics</i> , 2020, 270, 1061-1065.	0.3	1
123	Quantification of collateral artery growth by automated fluorescent microsphere perfusion. <i>International Journal of Cardiology</i> , 2012, 161, 88-92.	1.7	0
124	Prevalence and relevance of impaired left ventricular function in chronic moderate regurgitation of native aortic valves. <i>Acta Cardiologica</i> , 2020, 75, 613-620.	0.9	0
125	Back to the vinyl age: a narrative report of a total computer blackout at a large university medical centre. <i>European Heart Journal Digital Health</i> , 2021, 2, 167-170.	1.7	0
126	Rare Case of Selenite Poisoning Manifesting as Non-ST-Segment Elevation Myocardial Infarction. <i>JACC: Case Reports</i> , 2021, 3, 811-815.	0.6	0

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127	An Apple Watch Dashboard for HiGHmed Heart Insufficiency Patients. Studies in Health Technology and Informatics, 2021, 283, 146-155.	0.3	0