

Ralf Mrowka

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

2,774
citations

172457

29
h-index

189892

50
g-index

132
all docs

132
docs citations

132
times ranked

3671
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time monitoring of immediate drug response and adaptation upon repeated treatment in a microfluidic chip system. <i>Archives of Toxicology</i> , 2022, 96, 1483-1487.	4.2	2
2	Recent advances in kidney research. <i>Acta Physiologica</i> , 2022, 235, e13820.	3.8	1
3	The impact of episporic modification of <i>Lichtheimia corymbifera</i> on virulence and interaction with phagocytes. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 880-896.	4.1	6
4	Preselector.uni-jena.de: optimize your cloning—a resource for identifying restriction enzymes for preselection reactions. <i>Nucleic Acids Research</i> , 2021, 49, W541-W543.	14.5	0
5	From small molecules to dinosaurs — Recent advances in blood pressure research. <i>Acta Physiologica</i> , 2021, 232, e13677.	3.8	0
6	Recent advances in blood pressure research. <i>Acta Physiologica</i> , 2020, 228, e13412.	3.8	0
7	Sex Differences in Diabetes- and TGF- β 1-Induced Renal Damage. <i>Cells</i> , 2020, 9, 2236.	4.1	24
8	Kidney research. <i>Acta Physiologica</i> , 2020, 230, e13569.	3.8	0
9	Influence of Macitentan on the Vascular Tone and Recruitment of Finger Capillaries Under Hypobaric Hypoxia in High Altitude. <i>High Altitude Medicine and Biology</i> , 2020, 21, 336-345.	0.9	2
10	How Simulations May Help Us to Understand the Dynamics of COVID-19 Spread. — Visualizing Non-Intuitive Behaviours of a Pandemic (pansim.uni-jena.de). <i>Acta Physiologica</i> , 2020, 229, e13520.	3.8	5
11	Decipher the complexity of cis-regulatory regions by a modified Cas9. <i>PLoS ONE</i> , 2020, 15, e0235530.	2.5	0
12	Obesity, adipocytes and insulin resistance—Friends for life?. <i>Acta Physiologica</i> , 2019, 225, e13258.	3.8	8
13	Imidazopyridines as Potent KDM5 Demethylase Inhibitors Promoting Reprogramming Efficiency of Human iPSCs. <i>IScience</i> , 2019, 12, 168-181.	4.1	24
14	Recent advances in hypertension research. <i>Acta Physiologica</i> , 2019, 226, e13295.	3.8	2
15	Inflammation—Dysregulated inflammatory response and strategies for treatment. <i>Acta Physiologica</i> , 2019, 226, e13284.	3.8	13
16	Cancer — An ongoing fight searching for reasons and therapies. <i>Acta Physiologica</i> , 2019, 226, e13275.	3.8	4
17	Literature optimized integration of gene expression for organ-specific evaluation of toxicogenomics datasets. <i>PLoS ONE</i> , 2019, 14, e0210467.	2.5	0
18	Ligand-induced oligomerization of the human GPCR neurotensin receptor 1 monitored in living HEK293T cells. , 2019, , .		1

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19	Observing monomer: dimer transitions of neurotensin receptors 1 in single SMALPs by homoFRET and in an ABELtrap. , 2019, , .		5
20	Human serum alters cell culture behavior and improves spheroid formation in comparison to fetal bovine serum. Experimental Cell Research, 2018, 365, 57-65.	2.6	36
21	Monitoring cytochrome P450 activity in living hepatocytes by chromogenic substrates in response to drug treatment or during cell maturation. Archives of Toxicology, 2018, 92, 1133-1149.	4.2	6
22	Liver-Kidney-on-Chip To Study Toxicity of Drug Metabolites. ACS Biomaterials Science and Engineering, 2018, 4, 78-89.	5.2	102
23	Evaluation of in vivo and in vitro models of toxicity by comparison of toxicogenomics data with the literature. Methods, 2018, 132, 57-65.	3.8	8
24	New insights into the astonishing diversity of hormone functions. Acta Physiologica, 2018, 224, e13188.	3.8	1
25	Modifiers of hypertension. Acta Physiologica, 2018, 224, e13184.	3.8	0
26	Nephropathy: New aspects of mechanisms, diagnosis and therapy. Acta Physiologica, 2018, 224, e13162.	3.8	4
27	Skeletal muscle in the fight against chronic diseases. Acta Physiologica, 2018, 223, e13086.	3.8	9
28	How to switch on genes with CRISPR/Cas9?. Acta Physiologica, 2018, 224, e13087.	3.8	2
29	Microfluidic devices for stem-cell cultivation, differentiation and toxicity testing. Proceedings of SPIE, 2017, , .	0.8	2
30	Arterial hypertension. Acta Physiologica, 2017, 219, 697-699.	3.8	4
31	Imaging cytochrome C oxidase and F _o F ₁ -ATP synthase in mitochondrial cristae of living human cells by FLIM and superresolution microscopy. Proceedings of SPIE, 2017, , .	0.8	3
32	The complement system in kidney diseases. Acta Physiologica, 2017, 220, 398-401.	3.8	1
33	Nephropathies. Acta Physiologica, 2017, 221, 151-154.	3.8	2
34	Did you know? Suppression by delay. Acta Physiologica, 2017, 221, 87-89.	3.8	0
35	Did you know? Modelling vision: computational science for understanding human visual perception. Acta Physiologica, 2017, 221, 227-229.	3.8	1
36	Human microRNA-299-3p decreases invasive behavior of cancer cells by downregulation of Oct4 expression and causes apoptosis. PLoS ONE, 2017, 12, e0174912.	2.5	18

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37	Effects of chemotherapeutics on trophoblast cells in 2D, 3D and placental explant culture. <i>Placenta</i> , 2016, 45, 97.	1.5	0
38	Vitamin D3 Partly Antagonizes Advanced-Glycation Endproducts-Induced NF- κ B Activation in Mouse Podocytes. <i>Nephron</i> , 2016, 134, 105-116.	1.8	10
39	Generation of Multicellular Breast Cancer Tumor Spheroids: Comparison of Different Protocols. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2016, 21, 89-98.	2.7	130
40	ExActa: blood pressure. <i>Acta Physiologica</i> , 2016, 217, 178-179.	3.8	3
41	Did you know? Visual adaption causing illusion. <i>Acta Physiologica</i> , 2016, 217, 272-273.	3.8	0
42	Thermoregulation. <i>Acta Physiologica</i> , 2016, 217, 3-5.	3.8	8
43	The metabolic syndrome: the future is now. <i>Acta Physiologica</i> , 2015, 214, 291-294.	3.8	4
44	Evolution and physical laws. <i>Acta Physiologica</i> , 2015, 215, 125-126.	3.8	1
45	Acute kidney injury. <i>Acta Physiologica</i> , 2015, 215, 73-75.	3.8	8
46	Hypoxia-induced gene expression results from selective mRNA partitioning to the endoplasmic reticulum. <i>Nucleic Acids Research</i> , 2015, 43, 3219-3236.	14.5	38
47	Ethyl 2-((4-Chlorophenyl)amino)thiazole-4-carboxylate and Derivatives Are Potent Inducers of Oct3/4. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5742-5750.	6.4	19
48	Identification of 2-[4-[(4-Methoxyphenyl)methoxy]-phenyl]acetonitrile and Derivatives as Potent Oct3/4 Inducers. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4976-4983.	6.4	15
49	ICAM1 depletion reduces spinal metastasis formation in vivo and improves neurological outcome. <i>European Spine Journal</i> , 2015, 24, 2173-2181.	2.2	13
50	Shutdown of Achaete-scute Homolog-1 Expression by Heterogeneous Nuclear Ribonucleoprotein (hnRNP)-A2/B1 in Hypoxia. <i>Journal of Biological Chemistry</i> , 2014, 289, 26973-26988.	3.4	10
51	Similarity in targets with REST points to neural and glioblastoma related miRNAs. <i>Nucleic Acids Research</i> , 2014, 42, 5436-5446.	14.5	5
52	Hypertension. <i>Acta Physiologica</i> , 2014, 211, 1-4.	3.8	3
53	Annexin A2 Mediates Apical Trafficking of Renal Na ⁺ -K ⁺ -2Cl ⁻ Cotransporter. <i>Journal of Biological Chemistry</i> , 2014, 289, 9983-9997.	3.4	25
54	Protein arginine methyl transferases PRMT3 and PRMT5 increase cell surface expression of cardiac sodium channel. <i>FEBS Letters</i> , 2013, 587, 3159-3165.	2.8	40

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55	Chronic activation of vasopressin V2 receptor signalling lowers renal medullary oxygen levels in rats. <i>Acta Physiologica</i> , 2013, 207, 721-731.	3.8	6
56	Tubular von Hippel-Lindau Knockout Protects against Rhabdomyolysis-Induced AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 1806-1819.	6.1	65
57	Group VIA phospholipase A ₂ is a target for vasopressin signaling in the thick ascending limb. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, F865-F874.	2.7	16
58	Indirubin Derivatives Modulate TGF β 2/BMP Signaling at Different Levels and Trigger Ubiquitin-Mediated Depletion of Nonactivated R-Smads. <i>Chemistry and Biology</i> , 2012, 19, 1423-1436.	6.0	35
59	Multilevel regulation of HIF-1 signaling by TTP. <i>Molecular Biology of the Cell</i> , 2012, 23, 4129-4141.	2.1	15
60	Comparison of Sepsis-Induced Transcriptomic Changes in a Murine Model to Clinical Blood Samples Identifies Common Response Patterns. <i>Frontiers in Microbiology</i> , 2012, 3, 284.	3.5	15
61	Molecular Insights into Reprogramming-Initiation Events Mediated by the OSKM Gene Regulatory Network. <i>PLoS ONE</i> , 2011, 6, e24351.	2.5	64
62	Effect of Vasopressin on the renal distribution of Annexin A2 in Brattleboro rats. <i>FASEB Journal</i> , 2011, 25, 1038.14.	0.5	0
63	Vasopressin treatment lowers renal outer medullary epoxyeicosatrienoic acid levels in Brattleboro rats. <i>FASEB Journal</i> , 2011, 25, 665.30.	0.5	0
64	Vasopressin treatment causes widespread hypoxia in the renal medulla of Brattleboro rats. <i>FASEB Journal</i> , 2011, 25, 1038.13.	0.5	0
65	Targetfinder.org: a resource for systematic discovery of transcription factor target genes. <i>Nucleic Acids Research</i> , 2010, 38, W233-W238.	14.5	29
66	Unbiased Functional Annotation of the Human Regulatome. <i>FASEB Journal</i> , 2010, 24, 488.1.	0.5	0
67	Translational Regulation of the Human Achaete-scute Homologue-1 by Fragile X Mental Retardation Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 4255-4266.	3.4	51
68	Seed based systematic discovery of specific transcription factor target genes. <i>FASEB Journal</i> , 2009, 23, .	0.5	0
69	Seed based systematic discovery of specific transcription factor target genes. <i>FEBS Journal</i> , 2008, 275, 3178-3192.	4.7	15
70	Phase dynamics of coupled oscillators reconstructed from data. <i>Physical Review E</i> , 2008, 77, 066205.	2.1	176
71	Wilms' tumor protein (β KTS) modulates renin gene transcription. <i>Kidney International</i> , 2008, 74, 458-466.	5.2	32
72	Joint analysis of a compendium gene expression data and 5' untranslated mRNA regions points to a common cis-regulatory region under epigenetic control. <i>FASEB Journal</i> , 2008, 22, 1024.2.	0.5	0

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73	Rate of Protein Synthesis Under Hypometabolic Conditions: The Down and Up and Down. FASEB Journal, 2008, 22, 1174.12.	0.5	2
74	Fatty acid dependent regulation of renin transcription by nuclear hormone receptor HNF4. FASEB Journal, 2008, 22, 735.9.	0.5	0
75	Uncovering interaction of coupled oscillators from data. Physical Review E, 2007, 76, 055201.	2.1	81
76	Dissecting the action of an evolutionary conserved non-coding region on renin promoter activity. Nucleic Acids Research, 2007, 35, 5120-5129.	14.5	13
77	Wilms' Tumor Protein WT1 (p63) inhibits Renin gene transcription. FASEB Journal, 2007, 21, A896.	0.5	0
78	Translational control of hypoxia sensitive genes by nucleolin. FASEB Journal, 2007, 21, A1402.	0.5	0
79	Contribution of adenosine receptors in the control of arteriolar tone and adenosine-angiotensin II interaction. Kidney International, 2006, 70, 690-698.	5.2	54
80	Influence of the adenosine A1 receptor on blood pressure regulation and renin release. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R1324-R1329.	1.8	45
81	Adenosine Restores Angiotensin II-Induced Contractions by Receptor-Independent Enhancement of Calcium Sensitivity in Renal Arterioles. Circulation Research, 2006, 99, 1117-1124.	4.5	52
82	Translational Control of Collagen Prolyl 4-Hydroxylase-1 (I) Gene Expression under Hypoxia. Journal of Biological Chemistry, 2006, 281, 26089-26101.	3.4	54
83	Heterogeneous Nuclear Ribonucleoprotein-A2/B1 Modulate Collagen Prolyl 4-Hydroxylase, 1 (I) mRNA Stability. Journal of Biological Chemistry, 2006, 281, 9279-9286.	3.4	45
84	DEVELOPMENT OF P-WAVE ALTERNANS AND HEART RATE VARIABILITY AFTER MYOCARDIAL INFARCTION. FASEB Journal, 2006, 20, A324.	0.5	1
85	Role of nucleolin in posttranscriptional control of MMP-9 expression. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2005, 1731, 32-40.	2.4	77
86	Sequence-related human proteins cluster by degree of evolutionary conservation. Physical Review E, 2004, 70, 051908.	2.1	2
87	Nitric oxide counteracts angiotensin II induced contraction in efferent arterioles in mice. Acta Physiologica Scandinavica, 2004, 181, 439-444.	2.2	34
88	AT1 receptors mediate angiotensin II-induced release of nitric oxide in afferent arterioles. Kidney International, 2004, 66, 1949-1958.	5.2	81
89	Does mapping reveal correlation between gene expression and protein-protein interaction?. Nature Genetics, 2003, 33, 15-16.	21.4	20
90	Directionality of coupling of physiological subsystems: age-related changes of cardiorespiratory interaction during different sleep stages in babies. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R1395-R1401.	1.8	54

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91	Control of renin synthesis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R491-R497.	1.8	29
92	An evolutionary approach for identifying potential transcription factor binding sites: the renin gene as an example. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R1147-R1150.	1.8	12
93	Identification of coupling direction: Application to cardiorespiratory interaction. Physical Review E, 2002, 65, 041909.	2.1	220
94	Oligoddb-interactive design of oligo DNA for transcription profiling of human genes. Bioinformatics, 2002, 18, 1686-1687.	4.1	29
95	Empfehlungen für die Bestimmung der -Herzfrequenzvariabilität im pädiatrischen Schlaflabor. Heart Rate Variability in the Paediatric Sleep Laboratory - Recommendations for -Measurement and Analysis. Somnologie, 2002, 6, 39-50.	1.5	9
96	Time of measurement influences the variability of tidal breathing parameters in healthy and sick infants. Respiration Physiology, 2001, 128, 187-194.	2.7	6
97	The complexity of heart rate in its postnatal development. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 88-91.	0.8	7
98	Is There a Bias in Proteome Research?. Genome Research, 2001, 11, 1971-1973.	5.5	189
99	APPLIKATION VON HALBLEITERLASERLICHT ÜBER EINE GLASFASER ZUR MESSUNG INTRAZELLULÄREER Ca ²⁺ -TRANSIENTEN. Biomedizinische Technik, 2001, 46, 424-425.	0.8	0
100	A Java applet for visualizing protein-protein interaction. Bioinformatics, 2001, 17, 669-671.	4.1	38
101	Interaction of Angiotensin II and Nitric Oxide in Isolated Perfused Afferent Arterioles of Mice. Journal of the American Society of Nephrology: JASN, 2001, 12, 1122-1127.	6.1	61
102	Blood pressure control in eNOS knock-out mice: comparison with other species under NO blockade. Acta Physiologica Scandinavica, 2000, 168, 155-160.	2.2	33
103	QUANTITATIVE ANALYSIS OF CARDIORESPIRATORY SYNCHRONIZATION IN INFANTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2479-2488.	1.7	68
104	Rhythms and complexity of respiration during sleep in preterm infants. Clinical Physiology, 1999, 19, 458-466.	0.7	19
105	Enhanced Blood Pressure Variability in eNOS Knockout Mice. Hypertension, 1999, 33, 1359-1363.	2.7	118
106	Genomic difference analysis by two-dimensional DNA fingerprinting reveals typical changes in human low-grade gliomas. , 1998, 23, 130-138.		6
107	Linear and nonlinear properties of heart rate control in infants at risk. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 273, R540-R547.	1.8	4
108	A novel standardization method for two-dimensional DNA fingerprints. Electrophoresis, 1997, 18, 2874-2879.	2.4	3

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109	Interaction of heart-rate fluctuations and respiration in 12 to 14-year-old children during sleeping and waking. Journal of the Autonomic Nervous System, 1996, 57, 141-143.	1.9	8
110	Development of heart rate power spectra reveals neonatal peculiarities of cardiorespiratory control. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1996, 271, R1025-R1032.	1.8	18
111	Heart rate control in infants at risk. Journal of Electrocardiology, 1996, 29, 214.	0.9	1
112	Linear and non-linear properties of heart rate in postnatal maturation. Cardiovascular Research, 1996, 31, 447-454.	3.8	27
113	Linear and non-linear properties of heart rate in postnatal maturation. Cardiovascular Research, 1996, 31, 447-454.	3.8	7
114	DEVELOPMENT OF LINEAR AND NON-LINEAR PROPERTIES OF HEART RATE DURING QUIET AND ACTIVE SLEEP IN INFANTS. 371. Pediatric Research, 1996, 39, 64-64.	2.3	1
115	Linear and non-linear properties of heart rate in postnatal maturation. Cardiovascular Research, 1996, 31, 447-54.	3.8	4
116	Does low frequency power of arterial blood pressure reflect sympathetic tone?. Journal of the Autonomic Nervous System, 1995, 54, 145-154.	1.9	70
117	Non-linear analysis of the cardiovascular control system in rat strains with differing hemodynamic characteristics. , 0, , .		4
118	Heart rate control in infants at high risk for sudden infant death syndrome (SIDS). , 0, , .		1
119	Symbolic dynamics approach in the analysis of heart rate in premature babies at high risk for sudden infant death syndrome (SIDS). , 0, , .		7
120	Alternans-like phenomena due to filtering of electrocardiographic data. , 0, , .		3
121	Complexity changes in instantaneous heart rate prior to ventricular fibrillation in patients with implantable defibrillator. , 0, , .		0
122	Mechanism of heart-rate turbulence. , 0, , .		0
123	Does percutaneous transluminal coronary angioplasty influence T wave alternans and heart rate variability based risk predictors?. , 0, , .		0
124	Coupled oscillators approach to identification of directionality in cardiorespiratory interaction. , 0, , .		0