Ralf Gilsbach

List of Publications by Year
in descending order

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65 papers	2,896 citations	159525 30 h-index	189801 50 g-index
72 all docs	72 docs citations	72 times ranked	4871 citing authors

#	Article	IF	Citations
1	Dynamic DNA methylation orchestrates cardiomyocyte development, maturation and disease. Nature Communications, 2014, 5, 5288.	5.8	272
2	Galaxy HiCExplorer 3: a web server for reproducible Hi-C, capture Hi-C and single-cell Hi-C data analysis, quality control and visualization. Nucleic Acids Research, 2020, 48, W177-W184.	6.5	188
3	Distinct epigenetic programs regulate cardiac myocyte development and disease in the human heart in vivo. Nature Communications, 2018, 9, 391.	5.8	181
4	Galaxy HiCExplorer: a web server for reproducible Hi-C data analysis, quality control and visualization. Nucleic Acids Research, 2018, 46, W11-W16.	6.5	168
5	MOF Acetyl Transferase Regulates Transcription and Respiration in Mitochondria. Cell, 2016, 167, 722-738.e23.	13.5	130
6	Comparison of in vitro and in vivo reference genes for internal standardization of real-time PCR data. BioTechniques, 2006, 40, 173-177.	0.8	123
7	Ablation of Mineralocorticoid Receptors in Myocytes But Not in Fibroblasts Preserves Cardiac Function. Hypertension, 2011, 57, 746-754.	1.3	118
8	Î±2-Adrenoceptor subtypesâ€"Unexpected functions for receptors and ligands derived from gene-targeted mouse models. Neurochemistry International, 2007, 51, 277-281.	1.9	103
9	DNA methylation signatures follow preformed chromatin compartments in cardiac myocytes. Nature Communications, 2017, 8, 1667.	5.8	76
10	Genetic Dissection of Î±₂-Adrenoceptor Functions in Adrenergic versus Nonadrenergic Cells. Molecular Pharmacology, 2009, 75, 1160-1170.	1.0	75
11	Are the pharmacology and physiology of Î±₂adrenoceptors determined by Î±₂â€heteroreceptors and autoreceptors respectively?. British Journal of Pharmacology, 2012, 165, 90-102.	2.7	74
12	A Dual Noradrenergic Mechanism for the Relief of Neuropathic Allodynia by the Antidepressant Drugs Duloxetine and Amitriptyline. Journal of Neuroscience, 2018, 38, 9934-9954.	1.7	73
13	Deciphering the Epigenetic Code of Cardiac Myocyte Transcription. Circulation Research, 2015, 117, 413-423.	2.0	71
14	Increased Expression of the Auxiliary Î²2-subunit of Ventricular L-type Ca2+ Channels Leads to Single-Channel Activity Characteristic of Heart Failure. PLoS ONE, 2007, 2, e292.	1.1	57
15	Adrenergic Repression of the Epigenetic Reader MeCP2 Facilitates Cardiac Adaptation in Chronic Heart Failure. Circulation Research, 2015, 117, 622-633.	2.0	57
16	Cingulate Overexpression of Mitogen-Activated Protein Kinase Phosphatase-1 as a Key Factor for Depression. Biological Psychiatry, 2017, 82, 370-379.	0.7	53
17	An Early mtUPR: Redistribution of the Nuclear Transcription Factor Rox1 to Mitochondria Protects against Intramitochondrial Proteotoxic Aggregates. Molecular Cell, 2020, 77, 180-188.e9.	4.5	53
18	Deoxycorticosterone Acetate/Saltâ€"Induced Cardiac But Not Renal Injury Is Mediated By Endothelial Mineralocorticoid Receptors Independently From Blood Pressure. Hypertension, 2016, 67, 130-138.	1.3	48

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19	Congenital heart disease risk loci identified by genome-wide association study in European patients. Journal of Clinical Investigation, 2021, 131, .	3.9	47
20	Induction of heart failure by minimally invasive aortic constriction inÂmice: Reduced peroxisome proliferator-activated receptor Î³ coactivator levels and mitochondrial dysfunction. Journal of Thoracic and Cardiovascular Surgery, 2011, 141, 492-500.e1.	0.4	45
21	Association of major depression with rare functional variants in norepinephrine transporter and serotonin_{1A} receptor genes. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2009, 150B, 1013-1016.	1.1	42
22	Ablation of biglycan attenuates cardiac hypertrophy and fibrosis after left ventricular pressure overload. Journal of Molecular and Cellular Cardiology, 2016, 101, 145-155.	0.9	42
23	Heterozygous Î±2C-adrenoceptor-deficient mice develop heart failure after transverse aortic constriction. Cardiovascular Research, 2007, 75, 728-737.	1.8	41
24	The Transcription Factor ETV1 Induces Atrial Remodeling and Arrhythmia. Circulation Research, 2018, 123, 550-563.	2.0	40
25	Presynaptic Metabotropic Receptors for Acetylcholine and Adrenaline/Noradrenaline. Handbook of Experimental Pharmacology, 2008, , 261-288.	0.9	40
26	Epigenetics in cardiac development, function, and disease. Cell and Tissue Research, 2014, 356, 585-600.	1.5	37
27	REEP1 and REEP2 proteins are preferentially expressed in neuronal and neuronal-like exocytotic tissues. Brain Research, 2014, 1545, 12-22.	1.1	37
28	Cardiac Myocyte De Novo DNA Methyltransferases 3a/3b Are Dispensable for Cardiac Function and Remodeling after Chronic Pressure Overload in Mice. PLoS ONE, 2015, 10, e0131019.	1.1	35
29	Transgenic simulation of human heart failure-like L-type Ca2+-channels: implications for fibrosis and heart rate in mice. Cardiovascular Research, 2009, 84, 396-406.	1.8	33
30	Neuropeptide Y in the noradrenergic neurones induces obesity and inhibits sympathetic tone in mice. Acta Physiologica, 2015, 213, 902-919.	1.8	33
31	Atheroprotection through SYK inhibition fails in established disease when local macrophage proliferation dominates lesion progression. Basic Research in Cardiology, 2016, 111, 20.	2.5	31
32	Dorsal BNST Î±_{2A}-Adrenergic Receptors Produce HCN-Dependent Excitatory Actions That Initiate Anxiogenic Behaviors. Journal of Neuroscience, 2018, 38, 8922-8942.	1.7	31
33	Chronic cardiac pressure overload induces adrenal medulla hypertrophy and increased catecholamine synthesis. Basic Research in Cardiology, 2011, 106, 591-602.	2.5	30
34	Inhibition of the cardiac myocyte mineralocorticoid receptor ameliorates doxorubicin-induced cardiotoxicity. Cardiovascular Research, 2018, 114, 282-290.	1.8	30
35	Sequential Defects in Cardiac Lineage Commitment and Maturation Cause Hypoplastic Left Heart Syndrome. Circulation, 2021, 144, 1409-1428.	1.6	29
36	A hierarchical regulatory network analysis of the vitamin D induced transcriptome reveals novel regulators and complete VDR dependency in monocytes. Scientific Reports, 2021, 11, 6518.	1.6	28

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37	Sympathetic Â2-adrenoceptors prevent cardiac hypertrophy and fibrosis in mice at baseline but not after chronic pressure overload. Cardiovascular Research, 2010, 86, 432-442.	1.8	27
38	Upregulation of Soluble Vascular Endothelial Growth Factor Receptor 1 Contributes to Angiogenesis Defects in the Placenta of Î±2B-Adrenoceptorâ€“Deficient Mice. Circulation Research, 2007, 101, 682-691.	2.0	20
39	Modulation of Î±₂-Adrenoceptor Functions by Heterotrimeric GÎ±_i Protein Isoforms. Journal of Pharmacology and Experimental Therapeutics, 2009, 331, 35-44.	1.3	20
40	Î²1-Adrenoceptor mRNA level reveals distinctions between infantile hemangioma and vascular malformations. Pediatric Research, 2013, 73, 409-413.	1.1	19
41	The in vivo specificity of synaptic Gβ² and Gβ³ subunits to the Î±2a adrenergic receptor at CNS synapses. Scientific Reports, 2019, 9, 1718.	1.6	17
42	Interleukin-4 Protects Dopaminergic Neurons In vitro but Is Dispensable for MPTP-Induced Neurodegeneration In vivo. Frontiers in Molecular Neuroscience, 2017, 10, 62.	1.4	16
43	Cardiovascular effects of chronic treatment with a Î²2-adrenoceptor agonist relieving neuropathic pain in mice. Neuropharmacology, 2011, 61, 51-60.	2.0	15
44	Involvement of Î±₂-Adrenoceptor Subtypes A and C in Glucose Homeostasis and Adrenaline-Induced Hyperglycaemia. Neuroendocrinology, 2012, 96, 51-59.	1.2	15
45	Pre- versus Postsynaptic Signaling by Î±2-Adrenoceptors. Current Topics in Membranes, 2011, 67, 139-160.	0.5	14
46	Noncanonical G-Protein-Dependent Modulation of Osteoclast Differentiation and Bone Resorption Mediated by Pasteurella multocida Toxin. MBio, 2014, 5, e02190.	1.8	13
47	5'-Hydroxymethylcytosine Precedes Loss of CpG Methylation in Enhancers and Genes Undergoing Activation in Cardiomyocyte Maturation. PLoS ONE, 2016, 11, e0166575.	1.1	13
48	Diabetes changes gene expression but not DNA methylation in cardiac cells. Journal of Molecular and Cellular Cardiology, 2021, 151, 74-87.	0.9	13
49	Proximity to injury, but neither number of nuclei nor ploidy define pathological adaptation and plasticity in cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2021, 152, 95-104.	0.9	13
50	Reactivation of the Nkx2.5 cardiac enhancer after myocardial infarction does not presage myogenesis. Cardiovascular Research, 2018, 114, 1098-1114.	1.8	12
51	miR-128a Acts as a Regulator in Cardiac Development by Modulating Differentiation of Cardiac Progenitor Cell Populations. International Journal of Molecular Sciences, 2020, 21, 1158.	1.8	10
52	Î±2B-Adrenoceptor Deficiency Leads to Postnatal Respiratory Failure in Mice*. Journal of Biological Chemistry, 2010, 285, 34213-34219.	1.6	8
53	ZNF354C is a transcriptional repressor that inhibits endothelial angiogenic sprouting. Scientific Reports, 2020, 10, 19079.	1.6	8
54	Î±2A-adrenergic heteroreceptors are required for stress-induced reinstatement of cocaine conditioned place preference. Neuropsychopharmacology, 2020, 45, 1473-1481.	2.8	8

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55	Nuclear receptor activation shapes spatial genome organization essential for gene expression control: lessons learned from the vitamin D receptor. Nucleic Acids Research, 2022, 50, 3745-3763.	6.5	8
56	Cooperative interactions at M2 muscarinic acetylcholine receptors: structure/activity relationships in stepwise shortened bispyridinium- and bis(ammonio)alkane-type allosteric modulators. Neurochemical Research, 2003, 28, 667-673.	1.6	7
57	A systemicPasteurella multocidatoxin aggravates cardiac hypertrophy and fibrosis in mice. Cellular Microbiology, 2015, 17, 1320-1331.	1.1	7
58	DNA topoisomerase inhibition with the HIF inhibitor acriflavine promotes transcription of lncRNAs in endothelial cells. Molecular Therapy - Nucleic Acids, 2022, 27, 1023-1035.	2.3	7
59	Uncontrolled Diabetes Mellitus Has No Major Influence on the Platelet Transcriptome. BioMed Research International, 2018, 2018, 1-9.	0.9	6
60	Gdf-15 deficiency does not alter vulnerability of nigrostriatal dopaminergic system in MPTP-intoxicated mice. Cell and Tissue Research, 2016, 365, 209-223.	1.5	5
61	Specificities of GÎ²Î³ subunits for the SNARE complex before and after stimulation of Î± _{2a} -adrenergic receptors. Science Signaling, 2021, 14, eabc4970.	1.6	2
62	Molecular cloning and functional expression of the murine noradrenaline transporter. Naunyn-Schmiedeberg's Archives of Pharmacology, 2007, 376, 65-71.	1.4	1
63	Understanding Arteriosclerosis 2.0: Making Sense of Genetic Variants with scATAC. Circulation Research, 2021, 129, 259-261.	2.0	1
64	Is It in the EPIgenome?: Epigenetics Marks at Birth Are Associated With Arterial Stiffness in Children. Hypertension, 2021, 78, 801-803.	1.3	0
65	GPCRâ€mediated Modulation Of Synaptic Transmission. FASEB Journal, 2012, 26, 665.7.	0.2	0