Kristina Lorenz

List of Publications by Year
in descending order

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81	3,224	186265 28	155660 55
papers	citations	h-index	g-index

86	86	86	5434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2. Nature, 2003, 426, 574-579.	27.8	353
2	Conformational cross-talk between Î±2A-adrenergic and Î¼-opioid receptors controls cell signaling. Nature Chemical Biology, 2008, 4, 126-131.	8.0	248
3	Crosstalk between Sentinel and Helper Macrophages Permits Neutrophil Migration into Infected Uroepithelium. Cell, 2014, 156, 456-468.	28.9	203
4	Î²-Arrestin biosensors reveal a rapid, receptor-dependent activation/deactivation cycle. Nature, 2016, 531, 661-664.	27.8	190
5	A new type of ERK1/2 autophosphorylation causes cardiac hypertrophy. Nature Medicine, 2009, 15, 75-83.	30.7	189
6	FTY720 Ameliorates Acute Ischemic Stroke in Mice by Reducing Thrombo-Inflammation but Not by Direct Neuroprotection. Stroke, 2013, 44, 3202-3210.	2.0	164
7	Î²-Arrestin Binding to the Î²2-Adrenergic Receptor Requires Both Receptor Phosphorylation and Receptor Activation. Journal of Biological Chemistry, 2005, 280, 9528-9535.	3.4	157
8	Cardiac hypertrophy: Targeting Raf/MEK/ERK1/2-signaling. International Journal of Biochemistry and Cell Biology, 2009, 41, 2351-2355.	2.8	117
9	The transcriptional repressor Nab1 is a specific regulator of pathological cardiac hypertrophy. Nature Medicine, 2005, 11, 837-844.	30.7	105
10	Interference with ERK ^{Thr188} phosphorylation impairs pathological but not physiological cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7440-7445.	7.1	79
11	Blocking of Î±4 Integrin Does Not Protect From Acute Ischemic Stroke in Mice. Stroke, 2014, 45, 1799-1806.	2.0	78
12	CD28 Superagonist-Mediated Boost of Regulatory T Cells Increases Thrombo-Inflammation and Ischemic Neurodegeneration during the Acute Phase of Experimental Stroke. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 6-10.	4.3	67
13	Cardiac RKIP induces a beneficial Î²-adrenoceptorâ€“dependent positive inotropy. Nature Medicine, 2015, 21, 1298-1306.	30.7	67
14	Oral Chaperone Therapy Migalastat for Treating Fabry Disease: Enzymatic Response and Serum Biomarker Changes After 1 Year. Clinical Pharmacology and Therapeutics, 2019, 105, 1224-1233.	4.7	66
15	PKA catalytic subunit mutations in adrenocortical Cushingâ€™s adenoma impair association with the regulatory subunit. Nature Communications, 2014, 5, 5680.	12.8	63
16	Î²-Adrenergic receptor stimulation causes cardiac hypertrophy via a GÎ²Î³/Erk-dependent pathway. Cardiovascular Research, 2012, 96, 255-264.	3.8	62
17	Raf Kinase Inhibitor Protein (RKIP) Dimer Formation Controls Its Target Switch from Raf1 to G Protein-coupled Receptor Kinase (GRK) 2. Journal of Biological Chemistry, 2012, 287, 23407-23417.	3.4	59
18	Phosphodiesterase 2 Protects Against Catecholamine-Induced Arrhythmia and Preserves Contractile Function After Myocardial Infarction. Circulation Research, 2017, 120, 120-132.	4.5	55

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19	Efficacy and Safety of Platelet Glycoprotein Receptor Blockade in Aged and Comorbid Mice With Acute Experimental Stroke. Stroke, 2015, 46, 3502-3506.	2.0	54
20	Partial Agonist Activity of Bucindolol Is Dependent on the Activation State of the Human Î² 1 -Adrenergic Receptor. Circulation, 2003, 108, 348-353.	1.6	50
21	The Amino-terminal Domain of G-protein-coupled Receptor Kinase 2 Is a Regulatory GÎ²Î³ Binding Site. Journal of Biological Chemistry, 2003, 278, 8052-8057.	3.4	45
22	Dual Role of the Î²2-Adrenergic Receptor C Terminus for the Binding of Î²-Arrestin and Receptor Internalization. Journal of Biological Chemistry, 2008, 283, 31840-31848.	3.4	43
23	Alterations of Phospholamban Function Can Exhibit Cardiotoxic Effects Independent of Excessive Sarcoplasmic Reticulum Ca ²⁺ -ATPase Inhibition. Circulation, 2009, 119, 436-444.	1.6	43
24	Coagulation factor XII induces pro-inflammatory cytokine responses in macrophages and promotes atherosclerosis in mice. Thrombosis and Haemostasis, 2017, 117, 176-187.	3.4	40
25	Interference with ERK-dimerization at the nucleocytosolic interface targets pathological ERK1/2 signaling without cardiotoxic side-effects. Nature Communications, 2020, 11, 1733.	12.8	38
26	Conserved salt-bridge competition triggered by phosphorylation regulates the protein interactome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13453-13458.	7.1	35
27	Myocardial Fibrosis Predicts 10-Year Survival in Patients Undergoing Aortic Valve Replacement. Circulation: Cardiovascular Imaging, 2018, 11, e007131.	2.6	33
28	Î²-Arrestin-2 Interaction and Internalization of the Human P2Y₁ Receptor Are Dependent on C-Terminal Phosphorylation Sites. Molecular Pharmacology, 2009, 76, 1162-1171.	2.3	29
29	Multi-OMICS: a critical technical perspective on integrative lipidomics approaches. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 808-811.	2.4	29
30	Eukaryotic elongation factor 2 is a prognostic marker and its kinase a potential therapeutic target in HCC. Oncotarget, 2017, 8, 11950-11962.	1.8	29
31	Î±-Galactosidase A Genotype N215S Induces a Specific Cardiac Variant of Fabry Disease. Circulation: Cardiovascular Genetics, 2017, 10, .	5.1	27
32	Differences in Natural History of Low- and High-Gradient Aortic Stenosis from Nonsevere to Severe Stage of the Disease. Journal of the American Society of Echocardiography, 2015, 28, 1270-1282.e4.	2.8	25
33	Sex-difference in expression and function of beta-adrenoceptors in macrovessels: role of the endothelium. Basic Research in Cardiology, 2017, 112, 29.	5.9	20
34	Loss of Survivin influences liver regeneration and is associated with impaired Aurora B function. Cell Death and Differentiation, 2013, 20, 834-844.	11.2	19
35	Heart failure-specific changes in protein kinase signalling. Pflugers Archiv European Journal of Physiology, 2014, 466, 1151-1162.	2.8	19
36	Biochemical and pathological changes result from mutated Caveolin-3 in muscle. Skeletal Muscle, 2018, 8, 28.	4.2	19

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37	Analyzing ERK 1/2 signalling and targets. Molecular BioSystems, 2016, 12, 2436-2446.	2.9	17
38	Oxidation of cardiac myofilament proteins: Priming for dysfunction?. Molecular Aspects of Medicine, 2018, 63, 47-58.	6.4	17
39	How to Steer and Control ERK and the ERK Signaling Cascade Exemplified by Looking at Cardiac Insufficiency. International Journal of Molecular Sciences, 2019, 20, 2179.	4.1	17
40	â€œPhoto-Rimonabantâ€• Synthesis and Biological Evaluation of Novel Photoswitchable Molecules Derived from Rimonabant Lead to a Highly Selective and Nanomolar â€œCis-Onâ€•CB₁R Antagonist. ACS Chemical Neuroscience, 2021, 12, 1632-1647.	3.5	17
41	Modeling atrial fibrosis inÂvitro â€”Generation and characterization of a novel human atrial fibroblast cell line. FEBS Open Bio, 2020, 10, 1210-1218.	2.3	16
42	RKIP: A Governor of Intracellular Signaling. Critical Reviews in Oncogenesis, 2014, 19, 489-496.	0.4	16
43	Inhibition of cardiac CaMKII to cure heart failure: step by step towards translation?. Basic Research in Cardiology, 2016, 111, 66.	5.9	15
44	Raf kinase inhibitor protein: lessons of a better way for Î²â€adrenergic receptor activation in the heart. Journal of Physiology, 2017, 595, 4073-4087.	2.9	15
45	Ectopic expression of S28A-mutated Histone H3 modulates longevity, stress resistance and cardiac function in Drosophila. Scientific Reports, 2018, 8, 2940.	3.3	13
46	The A2B adenosine receptor in MDA-MB-231 breast cancer cells diminishes ERK1/2 phosphorylation by activation of MAPK-phosphatase-1. PLoS ONE, 2018, 13, e0202914.	2.5	13
47	Protective Effects of Thyroid Hormone Deprivation on Progression of Maladaptive Cardiac Hypertrophy and Heart Failure. Frontiers in Cardiovascular Medicine, 2021, 8, 683522.	2.4	13
48	Interleukin-23 receptor expressing Î³Î´ T cells locally promote early atherosclerotic lesion formation and plaque necrosis in mice. Cardiovascular Research, 2022, 118, 2932-2945.	3.8	13
49	Phosphorylation or Mutation of the ERK2 Activation Loop Alters Oligonucleotide Binding. Biochemistry, 2016, 55, 1909-1917.	2.5	12
50	Cellular Mechanisms of the Anti-Arrhythmic Effect of Cardiac PDE2 Overexpression. International Journal of Molecular Sciences, 2021, 22, 4816.	4.1	12
51	Î²-Adrenoceptor-Mediated Relaxation of Carbachol-Pre-Contracted Mouse Detrusor. Urologia Internationalis, 2015, 95, 92-98.	1.3	11
52	Sulforaphane exposure impairs contractility and mitochondrial function in three-dimensional engineered heart tissue. Redox Biology, 2021, 41, 101951.	9.0	11
53	The potential of remdesivir to affect function, metabolism and proliferation of cardiac and kidney cells in vitro. Archives of Toxicology, 2022, 96, 2341-2360.	4.2	11
54	Raf Kinase Inhibitory Protein regulates the cAMP-dependent protein kinase signaling pathway through a positive feedback loop. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9

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55	A systemicPasteurella multocidatoxin aggravates cardiac hypertrophy and fibrosis in mice. Cellular Microbiology, 2015, 17, 1320-1331.	2.1	7
56	Analysis of fibrosis in control or pressure overloaded rat hearts after mechanical unloading by heterotopic heart transplantation. Scientific Reports, 2019, 9, 5710.	3.3	7
57	Î²-Adrenoceptor-mediated Relaxation of Urinary Bladder Muscle in Î²2-Adrenoceptor Knockout Mice. Frontiers in Pharmacology, 2016, 7, 118.	3.5	6
58	Assessing the role of extracellular signalâ€regulated kinases 1 and 2 in volume overloadâ€induced cardiac remodelling. ESC Heart Failure, 2019, 6, 1015-1026.	3.1	5
59	Î² 1 Adrenoceptor antagonistic effects of the supposedly selective Î² 2 adrenoceptor antagonist ICI 118,551 on the positive inotropic effect of adrenaline in murine hearts. Pharmacology Research and Perspectives, 2015, 3, e00168.	2.4	4
60	The N-termini of GRK2 and GRK3 simulate the stimulating effects of RKIP on Î²-adrenoceptors. Biochemical and Biophysical Research Communications, 2019, 520, 327-332.	2.1	4
61	The Î² ₂ agonist terbutaline specifically decreases pulmonary arterial pressure under normoxia and hypoxia via a adrenoceptor antagonism. FASEB Journal, 2018, 32, 2519-2530.	0.5	3
62	ERK1/2 Activity Is Critical for the Outcome of Ischemic Stroke. International Journal of Molecular Sciences, 2022, 23, 706.	4.1	3
63	Harnessing RKIP to Combat Heart Disease and Cancer. Cancers, 2022, 14, 867.	3.7	3
64	CARS Imaging Advances Early Diagnosis of Cardiac Manifestation of Fabry Disease. International Journal of Molecular Sciences, 2022, 23, 5345.	4.1	3
65	Cardiac amyloidosis mimicking severe aortic valve stenosis â€“ a case report demonstrating diagnostic pitfalls and role of dobutamine stress echocardiography. BMC Cardiovascular Disorders, 2017, 17, 86.	1.7	2
66	Realâ€time Triggered RAdial Singleâ€Shot Inversion recovery for arrhythmiaâ€insensitive myocardial T1 mapping: motion phantom validation and in vivo comparison. Magnetic Resonance in Medicine, 2019, 81, 1714-1725.	3.0	2
67	Direct inhibition of G protein signaling by crossâ€conformational switches between Î± 2A â€adrenergic and Î¼â€opioid receptors. FASEB Journal, 2008, 22, 908.8.	0.5	2
68	Association between Comorbidities and Progression of Transvalvular Pressure Gradients in Patients with Moderate and Severe Aortic Valve Stenosis. Cardiology Research and Practice, 2018, 2018, 1-7.	1.1	1
69	Simple Targeted Assays for Metabolic Pathways and Signaling: A Powerful Tool for Targeted Proteomics. Analytical Chemistry, 2020, 92, 13672-13676.	6.5	1
70	Murine models for heart failure: Their creation and applicability to human still require critical and careful considerations. IJC Heart and Vasculature, 2021, 34, 100781.	1.1	1
71	Pulsed Blue Laser Diode Thermal Desorption Microplasma Imaging Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2022, 33, 45-53.	2.8	1
72	ADAM10 inhibition improves survival and augments cardiac function after myocardial infarction. European Heart Journal, 2020, 41, .	2.2	1

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73	A Phospho-Induced Theft of a Salt Bridge in RKIP Links Map Kinase and G Protein-Mediated Signaling. Biophysical Journal, 2017, 112, 63a-64a.	0.5	0
74	Studying mdx cardiomyocyte hypertrophy in vitro. Neuromuscular Disorders, 2017, 27, S15-S16.	0.6	0
75	P1102Role of serum biomarkers for monitoring disease progression in the cardio-specific alpha-galactosidase A genotype N215S. European Heart Journal, 2017, 38, .	2.2	0
76	P1585Fibrotic myocardial remodeling is regulated by rkip and nrf2 depending on redox status. European Heart Journal, 2017, 38, .	2.2	0
77	4100Selective TRASSI T1 mapping for improved endocardial and right ventricular diagnostics. European Heart Journal, 2017, 38, .	2.2	0
78	Age-dependent increase in c-Jun N-terminal kinase-2 activity: does this help to understand Ca2+-calmodulin-dependent protein-kinase II-mediated atrial arrhythmogenesis in human atrial fibrillation?. Cardiovascular Research, 2018, 114, 641-642.	3.8	0
79	Conserved saltâ€bridge competition triggered by phosphorylation regulates the protein interactome. FASEB Journal, 2018, 32, 533.100.	0.5	0
80	Abstract 576: Phosphodiesterase 2 in Cardiac Arrhythmias and Heart Failure. Circulation Research, 2019, 125, .	4.5	0
81	Nonlinear spectroscopy for Fabry disease characterization based on cardiomyocytes. , 2021, , .		0