

# Kristina Lorenz

## List of Publications by Year in descending order

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81  
papers

3,224  
citations

186265

28  
h-index

155660

55  
g-index

86  
all docs

86  
docs citations

86  
times ranked

5434  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed Blue Laser Diode Thermal Desorption Microplasma Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 45-53.	2.8	1
2	ERK1/2 Activity Is Critical for the Outcome of Ischemic Stroke. <i>International Journal of Molecular Sciences</i> , 2022, 23, 706.	4.1	3
3	Harnessing RKIP to Combat Heart Disease and Cancer. <i>Cancers</i> , 2022, 14, 867.	3.7	3
4	Interleukin-23 receptor expressing $\gamma\delta$ T cells locally promote early atherosclerotic lesion formation and plaque necrosis in mice. <i>Cardiovascular Research</i> , 2022, 118, 2932-2945.	3.8	13
5	CARS Imaging Advances Early Diagnosis of Cardiac Manifestation of Fabry Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5345.	4.1	3
6	The potential of remdesivir to affect function, metabolism and proliferation of cardiac and kidney cells in vitro. <i>Archives of Toxicology</i> , 2022, 96, 2341-2360.	4.2	11
7	Raf Kinase Inhibitory Protein regulates the cAMP-dependent protein kinase signaling pathway through a positive feedback loop. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
8	Photo-Rimonabant: Synthesis and Biological Evaluation of Novel Photoswitchable Molecules Derived from Rimonabant Lead to a Highly Selective and Nanomolar <i>Cis</i> -On-Off CB <sub>1</sub> Receptor Antagonist. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1632-1647.	3.5	17
9	Sulforaphane exposure impairs contractility and mitochondrial function in three-dimensional engineered heart tissue. <i>Redox Biology</i> , 2021, 41, 101951.	9.0	11
10	Cellular Mechanisms of the Anti-Arrhythmic Effect of Cardiac PDE2 Overexpression. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4816.	4.1	12
11	Murine models for heart failure: Their creation and applicability to human still require critical and careful considerations. <i>IJC Heart and Vasculature</i> , 2021, 34, 100781.	1.1	1
12	Protective Effects of Thyroid Hormone Deprivation on Progression of Maladaptive Cardiac Hypertrophy and Heart Failure. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 683522.	2.4	13
13	Nonlinear spectroscopy for Fabry disease characterization based on cardiomyocytes. , 2021, , .		0
14	Simple Targeted Assays for Metabolic Pathways and Signaling: A Powerful Tool for Targeted Proteomics. <i>Analytical Chemistry</i> , 2020, 92, 13672-13676.	6.5	1
15	Modeling atrial fibrosis in vitro: Generation and characterization of a novel human atrial fibroblast cell line. <i>FEBS Open Bio</i> , 2020, 10, 1210-1218.	2.3	16
16	Interference with ERK-dimerization at the nucleocytoplasmic interface targets pathological ERK1/2 signaling without cardiotoxic side-effects. <i>Nature Communications</i> , 2020, 11, 1733.	12.8	38
17	ADAM10 inhibition improves survival and augments cardiac function after myocardial infarction. <i>European Heart Journal</i> , 2020, 41, .	2.2	1
18	Assessing the role of extracellular signal-regulated kinases 1 and 2 in volume overload-induced cardiac remodelling. <i>ESC Heart Failure</i> , 2019, 6, 1015-1026.	3.1	5

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19	The N-termini of GRK2 and GRK3 simulate the stimulating effects of RKIP on $\beta^2$ -adrenoceptors. <i>Biochemical and Biophysical Research Communications</i> , 2019, 520, 327-332.	2.1	4
20	Real-time Triggered RAdial Single-Shot Inversion recovery for arrhythmia-insensitive myocardial T1 mapping: motion phantom validation and in vivo comparison. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1714-1725.	3.0	2
21	How to Steer and Control ERK and the ERK Signaling Cascade Exemplified by Looking at Cardiac Insufficiency. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2179.	4.1	17
22	Analysis of fibrosis in control or pressure overloaded rat hearts after mechanical unloading by heterotopic heart transplantation. <i>Scientific Reports</i> , 2019, 9, 5710.	3.3	7
23	Oral Chaperone Therapy Migalastat for Treating Fabry Disease: Enzymatic Response and Serum Biomarker Changes After 1 Year. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 1224-1233.	4.7	66
24	Abstract 576: Phosphodiesterase 2 in Cardiac Arrhythmias and Heart Failure. <i>Circulation Research</i> , 2019, 125, .	4.5	0
25	Ectopic expression of S28A-mutated Histone H3 modulates longevity, stress resistance and cardiac function in <i>Drosophila</i> . <i>Scientific Reports</i> , 2018, 8, 2940.	3.3	13
26	Age-dependent increase in c-Jun N-terminal kinase-2 activity: does this help to understand Ca <sup>2+</sup> -calmodulin-dependent protein-kinase II-mediated atrial arrhythmogenesis in human atrial fibrillation?. <i>Cardiovascular Research</i> , 2018, 114, 641-642.	3.8	0
27	The $\beta^2$ agonist terbutaline specifically decreases pulmonary arterial pressure under normoxia and hypoxia via a adrenoceptor antagonism. <i>FASEB Journal</i> , 2018, 32, 2519-2530.	0.5	3
28	Association between Comorbidities and Progression of Transvalvular Pressure Gradients in Patients with Moderate and Severe Aortic Valve Stenosis. <i>Cardiology Research and Practice</i> , 2018, 2018, 1-7.	1.1	1
29	Myocardial Fibrosis Predicts 10-Year Survival in Patients Undergoing Aortic Valve Replacement. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007131.	2.6	33
30	The A2B adenosine receptor in MDA-MB-231 breast cancer cells diminishes ERK1/2 phosphorylation by activation of MAPK-phosphatase-1. <i>PLoS ONE</i> , 2018, 13, e0202914.	2.5	13
31	Biochemical and pathological changes result from mutated Caveolin-3 in muscle. <i>Skeletal Muscle</i> , 2018, 8, 28.	4.2	19
32	Oxidation of cardiac myofilament proteins: Priming for dysfunction?. <i>Molecular Aspects of Medicine</i> , 2018, 63, 47-58.	6.4	17
33	Conserved salt-bridge competition triggered by phosphorylation regulates the protein interactome. <i>FASEB Journal</i> , 2018, 32, 533.100.	0.5	0
34	Multi-OMICS: a critical technical perspective on integrative lipidomics approaches. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 808-811.	2.4	29
35	Raf kinase inhibitor protein: lessons of a better way for $\beta^2$ -adrenergic receptor activation in the heart. <i>Journal of Physiology</i> , 2017, 595, 4073-4087.	2.9	15
36	A Phospho-Induced Theft of a Salt Bridge in RKIP Links Map Kinase and G Protein-Mediated Signaling. <i>Biophysical Journal</i> , 2017, 112, 63a-64a.	0.5	0

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37	Sex-difference in expression and function of beta-adrenoceptors in macrovessels: role of the endothelium. <i>Basic Research in Cardiology</i> , 2017, 112, 29.	5.9	20
38	Î±-Galactosidase A Genotype N215S Induces a Specific Cardiac Variant of Fabry Disease. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .	5.1	27
39	Studying mdx cardiomyocyte hypertrophy in vitro. <i>Neuromuscular Disorders</i> , 2017, 27, S15-S16.	0.6	0
40	Conserved salt-bridge competition triggered by phosphorylation regulates the protein interactome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13453-13458.	7.1	35
41	Cardiac amyloidosis mimicking severe aortic valve stenosis “ a case report demonstrating diagnostic pitfalls and role of dobutamine stress echocardiography. <i>BMC Cardiovascular Disorders</i> , 2017, 17, 86.	1.7	2
42	Phosphodiesterase 2 Protects Against Catecholamine-Induced Arrhythmia and Preserves Contractile Function After Myocardial Infarction. <i>Circulation Research</i> , 2017, 120, 120-132.	4.5	55
43	P1102Role of serum biomarkers for monitoring disease progression in the cardio-specific alpha-galactosidase A genotype N215S. <i>European Heart Journal</i> , 2017, 38, .	2.2	0
44	Coagulation factor XII induces pro-inflammatory cytokine responses in macrophages and promotes atherosclerosis in mice. <i>Thrombosis and Haemostasis</i> , 2017, 117, 176-187.	3.4	40
45	P1585Fibrotic myocardial remodeling is regulated by rkip and nrf2 depending on redox status. <i>European Heart Journal</i> , 2017, 38, .	2.2	0
46	4100Selective TRASSI T1 mapping for improved endocardial and right ventricular diagnostics. <i>European Heart Journal</i> , 2017, 38, .	2.2	0
47	Eukaryotic elongation factor 2 is a prognostic marker and its kinase a potential therapeutic target in HCC. <i>Oncotarget</i> , 2017, 8, 11950-11962.	1.8	29
48	Î²-Adrenoceptor-mediated Relaxation of Urinary Bladder Muscle in Î²2-Adrenoceptor Knockout Mice. <i>Frontiers in Pharmacology</i> , 2016, 7, 118.	3.5	6
49	Inhibition of cardiac CaMKII to cure heart failure: step by step towards translation?. <i>Basic Research in Cardiology</i> , 2016, 111, 66.	5.9	15
50	Analyzing ERK 1/2 signalling and targets. <i>Molecular BioSystems</i> , 2016, 12, 2436-2446.	2.9	17
51	Î²-Arrestin biosensors reveal a rapid, receptor-dependent activation/deactivation cycle. <i>Nature</i> , 2016, 531, 661-664.	27.8	190
52	Phosphorylation or Mutation of the ERK2 Activation Loop Alters Oligonucleotide Binding. <i>Biochemistry</i> , 2016, 55, 1909-1917.	2.5	12
53	A systemic <i>Pasteurella multocida</i> toxin aggravates cardiac hypertrophy and fibrosis in mice. <i>Cellular Microbiology</i> , 2015, 17, 1320-1331.	2.1	7
54	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. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00168.	2.4	4

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55	$\beta^2$ -Adrenoceptor-Mediated Relaxation of Carbachol-Pre-Contracted Mouse Detrusor. <i>Urologia Internationalis</i> , 2015, 95, 92-98.	1.3	11
56	CD28 Superagonist-Mediated Boost of Regulatory T Cells Increases Thrombo-Inflammation and Ischemic Neurodegeneration during the Acute Phase of Experimental Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 6-10.	4.3	67
57	Efficacy and Safety of Platelet Glycoprotein Receptor Blockade in Aged and Comorbid Mice With Acute Experimental Stroke. <i>Stroke</i> , 2015, 46, 3502-3506.	2.0	54
58	Cardiac RKIP induces a beneficial $\beta^2$ -adrenoceptor-dependent positive inotropy. <i>Nature Medicine</i> , 2015, 21, 1298-1306.	30.7	67
59	Differences in Natural History of Low- and High-Gradient Aortic Stenosis from Nonsevere to Severe Stage of the Disease. <i>Journal of the American Society of Echocardiography</i> , 2015, 28, 1270-1282.e4.	2.8	25
60	PKA catalytic subunit mutations in adrenocortical Cushing's adenoma impair association with the regulatory subunit. <i>Nature Communications</i> , 2014, 5, 5680.	12.8	63
61	Heart failure-specific changes in protein kinase signalling. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 1151-1162.	2.8	19
62	Crosstalk between Sentinel and Helper Macrophages Permits Neutrophil Migration into Infected Uroepithelium. <i>Cell</i> , 2014, 156, 456-468.	28.9	203
63	Blocking of $\beta^4$ Integrin Does Not Protect From Acute Ischemic Stroke in Mice. <i>Stroke</i> , 2014, 45, 1799-1806.	2.0	78
64	RKIP: A Governor of Intracellular Signaling. <i>Critical Reviews in Oncogenesis</i> , 2014, 19, 489-496.	0.4	16
65	Loss of Survivin influences liver regeneration and is associated with impaired Aurora B function. <i>Cell Death and Differentiation</i> , 2013, 20, 834-844.	11.2	19
66	FTY720 Ameliorates Acute Ischemic Stroke in Mice by Reducing Thrombo-Inflammation but Not by Direct Neuroprotection. <i>Stroke</i> , 2013, 44, 3202-3210.	2.0	164
67	Interference with ERK <sup>Thr188</sup> phosphorylation impairs pathological but not physiological cardiac hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7440-7445.	7.1	79
68	$\beta^2$ -Adrenergic receptor stimulation causes cardiac hypertrophy via a $G^{12/13}$ /Erk-dependent pathway. <i>Cardiovascular Research</i> , 2012, 96, 255-264.	3.8	62
69	Raf Kinase Inhibitor Protein (RKIP) Dimer Formation Controls Its Target Switch from Raf1 to G Protein-coupled Receptor Kinase (GRK) 2. <i>Journal of Biological Chemistry</i> , 2012, 287, 23407-23417.	3.4	59
70	Alterations of Phospholamban Function Can Exhibit Cardiotoxic Effects Independent of Excessive Sarcoplasmic Reticulum Ca <sup>2+</sup> -ATPase Inhibition. <i>Circulation</i> , 2009, 119, 436-444.	1.6	43
71	$\beta^2$ -Arrestin-2 Interaction and Internalization of the Human P2Y <sub>1</sub> Receptor Are Dependent on C-Terminal Phosphorylation Sites. <i>Molecular Pharmacology</i> , 2009, 76, 1162-1171.	2.3	29
72	A new type of ERK1/2 autophosphorylation causes cardiac hypertrophy. <i>Nature Medicine</i> , 2009, 15, 75-83.	30.7	189

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73	Cardiac hypertrophy: Targeting Raf/MEK/ERK1/2-signaling. International Journal of Biochemistry and Cell Biology, 2009, 41, 2351-2355.	2.8	117
74	Conformational cross-talk between $\beta_2$ -adrenergic and $\mu$ -opioid receptors controls cell signaling. Nature Chemical Biology, 2008, 4, 126-131.	8.0	248
75	Dual Role of the $\beta_2$ -Adrenergic Receptor C Terminus for the Binding of $\beta$ -Arrestin and Receptor Internalization. Journal of Biological Chemistry, 2008, 283, 31840-31848.	3.4	43
76	Direct inhibition of G protein signaling by cross-conformational switches between $\beta_2$ -adrenergic and $\mu$ -opioid receptors. FASEB Journal, 2008, 22, 908.8.	0.5	2
77	The transcriptional repressor Nab1 is a specific regulator of pathological cardiac hypertrophy. Nature Medicine, 2005, 11, 837-844.	30.7	105
78	$\beta$ -Arrestin Binding to the $\beta_2$ -Adrenergic Receptor Requires Both Receptor Phosphorylation and Receptor Activation. Journal of Biological Chemistry, 2005, 280, 9528-9535.	3.4	157
79	Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2. Nature, 2003, 426, 574-579.	27.8	353
80	Partial Agonist Activity of Bucindolol Is Dependent on the Activation State of the Human $\beta_1$ -Adrenergic Receptor. Circulation, 2003, 108, 348-353.	1.6	50
81	The Amino-terminal Domain of G-protein-coupled Receptor Kinase 2 Is a Regulatory $G^{13}$ Binding Site. Journal of Biological Chemistry, 2003, 278, 8052-8057.	3.4	45