Tarik Smani

List of Publications by Year in descending order

89 papers	2,412 citations	172457 29 h-index	223800 46 g-index
94 all docs	94 docs citations	94 times ranked	2998 citing authors

#	Article	IF	Citations
1	A novel mechanism for the store-operated calcium influx pathway. Nature Cell Biology, 2004, 6, 113-120.	10.3	245
2	Ca2+-independent Phospholipase A2 Is a Novel Determinant of Store-operated Ca2+ Entry. Journal of Biological Chemistry, 2003, 278, 11909-11915.	3.4	127
3	TRPs in Pain Sensation. Frontiers in Physiology, 2017, 8, 392.	2.8	104
4	Functional and physiopathological implications of TRP channels. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1772-1782.	4.1	81
5	The Complex Role of Store Operated Calcium Entry Pathways and Related Proteins in the Function of Cardiac, Skeletal and Vascular Smooth Muscle Cells. Frontiers in Physiology, 2018, 9, 257.	2.8	74
6	K+ and Ca2+ channel activity and cytosolic [Ca2+] in oxygen-sensing tissues. Respiration Physiology, 1999, 115, 215-227.	2.7	67
7	Urotensin-II promotes vascular smooth muscle cell proliferation through store-operated calcium entry and EGFR transactivation. Cardiovascular Research, 2013, 100, 297-306.	3.8	67
8	TRPC6 Channels Are Required for Proliferation, Migration and Invasion of Breast Cancer Cell Lines by Modulation of Orai1 and Orai3 Surface Exposure. Cancers, 2018, 10, 331.	3.7	67
9	TRPC Channels in the SOCE Scenario. Cells, 2020, 9, 126.	4.1	61
10	Dynamic interaction of SARAF with STIM1 and Orai1 to modulate store-operated calcium entry. Scientific Reports, 2016, 6, 24452.	3.3	56
11	Role of Ca 2+ -Independent Phospholipase A 2 and Store-Operated Pathway in Urocortin-Induced Vasodilatation of Rat Coronary Artery. Circulation Research, 2007, 101, 1194-1203.	4.5	55
12	TRP Channels in Angiogenesis and Other Endothelial Functions. Frontiers in Physiology, 2018, 9, 1731.	2.8	55
13	Activation Mechanism for CRAC Current and Store-operated Ca2+ Entry. Journal of Biological Chemistry, 2006, 281, 34926-34935.	3.4	53
14	Molecular modulators of store-operated calcium entry. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2037-2043.	4.1	53
15	The cytoskeleton plays a modulatory role in the association between STIM1 and the Ca2+ channel subunits Orai1 and TRPC1. Biochemical Pharmacology, 2011, 82, 400-410.	4.4	51
16	miR-125a, miR-139 and miR-324 contribute to Urocortin protection against myocardial ischemia-reperfusion injury. Scientific Reports, 2017, 7, 8898.	3.3	50
17	TRP Channels: Current Perspectives in the Adverse Cardiac Remodeling. Frontiers in Physiology, 2019, 10, 159.	2.8	49
18	Innate Immune Receptors, Key Actors in Cardiovascular Diseases. JACC Basic To Translational Science, 2020, 5, 735-749.	4.1	45

#	Article	IF	Citations
19	STIM and Orai1 Variants in Store-Operated Calcium Entry. Frontiers in Pharmacology, 2015, 6, 325.	3.5	44
20	Reduction of Ca2+ channel activity by hypoxia in human and porcine coronary myocytes. Cardiovascular Research, 2002, 53, 97-104.	3.8	41
21	Urocortin induces positive inotropic effect in rat heart. Cardiovascular Research, 2009, 83, 717-725.	3.8	37
22	Urotensin-II Signaling Mechanism in Rat Coronary Artery. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1325-1332.	2.4	37
23	Adenylyl Cyclase Type 8 Overexpression Impairs Phosphorylation-Dependent Orai1 Inactivation and Promotes Migration in MDA-MB-231 Breast Cancer Cells. Cancers, 2019, 11, 1624.	3.7	36
24	Mechanisms underlying the activation of L-type calcium channels by urocortin in rat ventricular myocytes. Cardiovascular Research, 2010, 87, 459-466.	3.8	33
25	Orai1 and TRPC1 Proteins Co-localize with CaV1.2 Channels to Form a Signal Complex in Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2016, 291, 21148-21159.	3.4	33
26	miR-7 Modulates hESC Differentiation into Insulin-Producing Beta-like Cells and Contributes to Cell Maturation. Molecular Therapy - Nucleic Acids, 2018, 12, 463-477.	5.1	33
27	Cytoskeletal and scaffolding proteins as structural and functional determinants of TRP channels. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 658-664.	2.6	32
28	Homer proteins mediate the interaction between STIM1 and Cav1.2 channels. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1145-1153.	4.1	31
29	Urocortinâ€2 induces vasorelaxation of coronary arteries isolated from patients with heart failure. Clinical and Experimental Pharmacology and Physiology, 2011, 38, 71-76.	1.9	30
30	Transient receptor potential ankyrin-1 (TRPA1) modulates store-operated Ca 2+ entry by regulation of STIM1-Orai1 association. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 3025-3034.	4.1	30
31	Resveratrol Ameliorates the Maturation Process of Î²-Cell-Like Cells Obtained from an Optimized Differentiation Protocol of Human Embryonic Stem Cells. PLoS ONE, 2015, 10, e0119904.	2.5	29
32	Regulation of Platelet Function by Orai, STIM and TRP. Advances in Experimental Medicine and Biology, 2016, 898, 157-181.	1.6	27
33	Molecular Basis and Regulation of Store-Operated Calcium Entry. Advances in Experimental Medicine and Biology, 2020, 1131, 445-469.	1.6	27
34	Urocortin-1 Mediated Cardioprotection Involves XIAP and CD40-Ligand Recovery: Role of EPAC2 and ERK1/2. PLoS ONE, 2016, 11, e0147375.	2.5	26
35	Filamin A Modulates Store-Operated Ca ²⁺ Entry by Regulating STIM1 (Stromal Interaction) Tj ETQq1 1 0.784314 rgBT /Ov Biology, 2018, 38, 386-397.	2.4	26
36	EFHB is a Novel Cytosolic Ca2+ Sensor That Modulates STIM1-SARAF Interaction. Cellular Physiology and Biochemistry, 2018, 51, 1164-1178.	1.6	25

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37	STIM1 phosphorylation at Y316 modulates its interaction with SARAF and the activation of SOCE and ICRAC. Journal of Cell Science, 2019, 132, .	2.0	25
38	Functional Vascular Smooth Muscle-like Cells Derived from Adult Mouse Uterine Mesothelial Cells. PLoS ONE, 2013, 8, e55181.	2.5	25
39	Cardiotrophin-1 induces sarcoplasmic reticulum Ca2+ leak and arrhythmogenesis in adult rat ventricular myocytes. Cardiovascular Research, 2012, 96, 81-89.	3.8	22
40	Differential segmental activation of Ca2+-dependent Clâ^'and K+channels in pulmonary arterial myocytes. Cell Calcium, 2001, 29, 369-377.	2.4	21
41	Urocortin-2 Prevents Dysregulation of Ca2+ Homeostasis and Improves Early Cardiac Remodeling After Ischemia and Reperfusion. Frontiers in Physiology, 2018, 9, 813.	2.8	21
42	Monovalent cation (MC) current in cardiac and smooth muscle cells: regulation by intracellular Mg2+ and inhibition by polycations. British Journal of Pharmacology, 2003, 138, 234-244.	5.4	20
43	TRPC and TRPV Channelsâ€™ Role in Vascular Remodeling and Disease. International Journal of Molecular Sciences, 2020, 21, 6125.	4.1	20
44	TRPC Channels: Dysregulation and Ca2+ Mishandling in Ischemic Heart Disease. Cells, 2020, 9, 173.	4.1	20
45	Complex regulation of store-operated Ca²⁺entry pathway by PKC-Îµ in vascular SMCs. American Journal of Physiology - Cell Physiology, 2008, 294, C1499-C1508.	4.6	19
46	Cardioprotective action of urocortin in postconditioning involves recovery of intracellular calcium handling. Cell Calcium, 2011, 50, 84-90.	2.4	18
47	The brain-tumor related protein podoplanin regulates synaptic plasticity and hippocampus-dependent learning and memory. Annals of Medicine, 2016, 48, 652-668.	3.8	18
48	Circulating miR-320a as a Predictive Biomarker for Left Ventricular Remodelling in STEMI Patients Undergoing Primary Percutaneous Coronary Intervention. Journal of Clinical Medicine, 2020, 9, 1051.	2.4	17
49	Orai2 Modulates Store-Operated Ca2+ Entry and Cell Cycle Progression in Breast Cancer Cells. Cancers, 2022, 14, 114.	3.7	17
50	Melatonin downregulates TRPC6, impairing store-operated calcium entry in triple-negative breast cancer cells. Journal of Biological Chemistry, 2021, 296, 100254.	3.4	16
51	New Insights into the Mechanisms Underlying Vascular and Cardiac Effects of Urocortin. Current Vascular Pharmacology, 2013, 11, 457-464.	1.7	15
52	Differential functional properties of Ca2+ stores in pulmonary arterial conduit and resistance myocytes. Cell Calcium, 2004, 36, 525-534.	2.4	12
53	SARAF and Orai1 Contribute to Endothelial Cell Activation and Angiogenesis. Frontiers in Cell and Developmental Biology, 2021, 9, 639952.	3.7	12
54	Association Analysis of Urotensin II Gene (UTS2) and Flanking Regions with Biochemical Parameters Related to Insulin Resistance. PLoS ONE, 2011, 6, e19327.	2.5	12

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55	Ca²⁺ mishandling in heart failure: Potential targets. Acta Physiologica, 2021, 232, e13691.	3.8	11
56	Furin Prodomain ppFurin Enhances Ca2+ Entry Through Orai and TRPC6 Channelsâ€™ Activation in Breast Cancer Cells. Cancers, 2021, 13, 1670.	3.7	10
57	Pathophysiological Significance of Store-Operated Calcium Entry in Cardiovascular and Skeletal Muscle Disorders and Angiogenesis. Advances in Experimental Medicine and Biology, 2020, 1131, 489-504.	1.6	10
58	Impact of Diabetes on Cardiac and Vascular Disease: Role of Calcium Signaling. Current Medicinal Chemistry, 2019, 26, 4166-4177.	2.4	10
59	Immunophilins and Cardiovascular Complications. Current Medicinal Chemistry, 2011, 18, 5408-5413.	2.4	9
60	Role of Orai1 and L-type CaV1.2 channels in Endothelin-1 mediated coronary contraction under ischemia and reperfusion. Cell Calcium, 2020, 86, 102157.	2.4	9
61	SARAF and EFHB Modulate Store-Operated Ca2+ Entry and Are Required for Cell Proliferation, Migration and Viability in Breast Cancer Cells. Cancers, 2021, 13, 4160.	3.7	9
62	Orai1Î±, but not Orai1Î², co-localizes with TRPC1 and is required for its plasma membrane location and activation in HeLa cells. Cellular and Molecular Life Sciences, 2022, 79, 33.	5.4	9
63	Cardiac protection induced by urocortin-2 enables the regulation of apoptosis and fibrosis after ischemia and reperfusion involving miR-29a modulation. Molecular Therapy - Nucleic Acids, 2022, 27, 838-853.	5.1	8
64	Cardioprotective Effect of Ranolazine in the Process of Ischemia-reperfusion in Adult Rat Cardiomyocytes. Revista Espanola De Cardiologia (English Ed), 2016, 69, 45-53.	0.6	7
65	Podoplanin Gene Disruption in Mice Promotes in vivo Neural Progenitor Cells Proliferation, Selectively Impairs Dentate Gyrus Synaptic Depression and Induces Anxiety-Like Behaviors. Frontiers in Cellular Neuroscience, 2019, 13, 561.	3.7	7
66	Editorial: Involvements of TRP Channels, Oxidative Stress and Apoptosis in Neurodegenerative Diseases. Frontiers in Physiology, 2021, 12, 649230.	2.8	7
67	Tissue engineered in-vitro vascular patch fabrication using hybrid 3D printing and electrospinning. Materials Today Bio, 2022, 14, 100252.	5.5	7
68	Phospholipase A2 as a Molecular Determinant of Store-Operated Calcium Entry. Advances in Experimental Medicine and Biology, 2016, 898, 111-131.	1.6	6
69	Efecto cardioprotector de la ranolazina en el proceso de isquemia-reperfusiÃ³n en cardiomiocitos de rata adultos. Revista Espanola De Cardiologia, 2016, 69, 45-53.	1.2	6
70	Non-coding RNAs and Ischemic Cardiovascular Diseases. Advances in Experimental Medicine and Biology, 2020, 1229, 259-271.	1.6	6
71	Radial and Circumferential Strain as Markers of Fibrosis in an Experimental Model of Myocardial Infarction. Revista Espanola De Cardiologia (English Ed), 2013, 66, 508-509.	0.6	2
72	miR-30b-5p Downregulation as a Predictive Biomarker of Coronary In-Stent Restenosis. Biomedicines, 2021, 9, 354.	3.2	2

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73	Clinical impact of rotational thromboelastometry in cardiac surgery. Transfusion Clinique Et Biologique, 2021, 28, 276-282.	0.4	2
74	Editorial: Molecular Components of Store-Operated Calcium Entry in Health and Disease. Frontiers in Cellular Neuroscience, 2021, 15, 771138.	3.7	2
75	Urocortin Role in Ischemia Cardioprotection and the Adverse Cardiac Remodeling. International Journal of Molecular Sciences, 2021, 22, 12115.	4.1	2
76	Urocortin. , 2017, , 1-4.		1
77	Essential role of Orai1 and SARAF in vascular remodeling. Journal of General Physiology, 2022, 154, .	1.9	1
78	Predicted Value of MicroRNAs, Vascular Endothelial Growth Factor, and Intermediate Monocytes in the Left Adverse Ventricular Remodeling in Revascularized ST-Segment Elevation Myocardial Infarction Patients. Frontiers in Cardiovascular Medicine, 2022, 9, 777717.	2.4	1
79	Positive inotropic effect of Urocortin on cardiomyocytes: Role of L-type calcium channels. Journal of Molecular and Cellular Cardiology, 2008, 44, 763-764.	1.9	0
80	Urocortin induces heart protection against ischemiaâ€“reperfusion injury. Journal of Molecular and Cellular Cardiology, 2008, 44, 764.	1.9	0
81	Regulation of Vascular Reactivity by Urocortin and Urotensin-II: Role of Store Operated Pathway. Biophysical Journal, 2010, 98, 98a.	0.5	0
82	Editorial: Recent Advances in Cardiovascular and Circulatory Signalling. Current Vascular Pharmacology, 2013, 11, 407-408.	1.7	0
83	Urotensin-II Induces Vascular Smooth Muscle Cell Proliferation and Creb Phosporylation Through Store Operated Calcium Entry and EGFR Transactivation. Biophysical Journal, 2014, 106, 318a.	0.5	0
84	P287miR-324 contributes to Urocortin modulation of apoptosis during myocardial ischemia and reperfusion. Cardiovascular Research, 2018, 114, S74-S74.	3.8	0
85	P73Circulating miRNAs associated with acute myocardial infarction treated with primary percutaneous coronary intervention. Cardiovascular Research, 2018, 114, S19-S20.	3.8	0
86	Urocortin. , 2018, , 5846-5848.		0
87	Implication of CREB in the calcium regulation by ischemia/reperfusion in cardiomyocytes. Journal of General Physiology, 2022, 154, .	1.9	0
88	Emergent role of SARAF and store-operated Ca2+ entry in angiogenesis. Journal of General Physiology, 2022, 154, .	1.9	0
89	Editorial: A Compendium of Recent Research on Stem Cell-Based Therapy for Covid-19. Frontiers in Cell and Developmental Biology, 2021, 9, 813384.	3.7	0