Sarka Tumova

List of Publications by Year
in descending order

38 papers	2,961 citations	304743 22 h-index	315739 38 g-index
38 all docs	38 docs citations	38 times ranked	4678 citing authors

#	Article	IF	Citations
1	Piezo1 integration of vascular architecture with physiological force. Nature, 2014, 515, 279-282.	27.8	813
2	Heparan sulfate proteoglycans on the cell surface: versatile coordinators of cellular functions. International Journal of Biochemistry and Cell Biology, 2000, 32, 269-288.	2.8	338
3	Syndecan-4 Binding to the High Affinity Heparin-Binding Domain of Fibronectin Drives Focal Adhesion Formation in Fibroblasts. Archives of Biochemistry and Biophysics, 2000, 374, 66-72.	3.0	203
4	Analysis of proinflammatory activity of highly purified eukaryotic recombinant HMGB1 (amphoterin). Journal of Leukocyte Biology, 2007, 81, 49-58.	3.3	190
5	Orai1 and CRAC Channel Dependence of VEGF-Activated Ca ²⁺ Entry and Endothelial Tube Formation. Circulation Research, 2011, 108, 1190-1198.	4.5	172
6	Heparan sulfate proteoglycan syndecan-3 is a novel receptor for GDNF, neurturin, and artemin. Journal of Cell Biology, 2011, 192, 153-169.	5.2	164
7	N-syndecan deficiency impairs neural migration in brain. Journal of Cell Biology, 2006, 174, 569-580.	5.2	114
8	Heparan Sulfate Chains from Glypican and Syndecans Bind the Hep II Domain of Fibronectin Similarly Despite Minor Structural Differences. Journal of Biological Chemistry, 2000, 275, 9410-9417.	3.4	103
9	Syndecan-4 Associates with Î±-Actinin. Journal of Biological Chemistry, 2003, 278, 7617-7623.	3.4	100
10	RAGE-Mediated Cell Signaling. Methods in Molecular Biology, 2013, 963, 239-263.	0.9	74
11	Pregnenolone sulphate-independent inhibition of TRPM3 channels by progesterone. Cell Calcium, 2012, 51, 1-11.	2.4	72
12	Acute metabolic actions of the major polyphenols in chamomile: an in vitro mechanistic study on their potential to attenuate postprandial hyperglycaemia. Scientific Reports, 2018, 8, 5471.	3.3	61
13	Gut microbiome catabolites as novel modulators of muscle cell glucose metabolism. FASEB Journal, 2019, 33, 1887-1898.	0.5	51
14	Inhibition of endothelial cell <scp><scp>Ca</scp>²⁺</scp> entry and transient receptor potential channels by <scp>S</scp>igmaâ€1 receptor ligands. British Journal of Pharmacology, 2013, 168, 1445-1455.	5.4	48
15	Chronic exposure to short-chain fatty acids modulates transport and metabolism of microbiome-derived phenolics in human intestinal cells. Journal of Nutritional Biochemistry, 2017, 39, 156-168.	4.2	47
16	AÎ²(1â€“40) Prevents Heparanase-catalyzed Degradation of Heparan Sulfate Glycosaminoglycans and Proteoglycans in Vitro. Journal of Biological Chemistry, 1997, 272, 17005-17011.	3.4	45
17	Quercetin preserves redox status and stimulates mitochondrial function in metabolically-stressed HepG2 cells. Free Radical Biology and Medicine, 2018, 129, 296-309.	2.9	40
18	The Two Thrombospondin Type I Repeat Domains of the Heparin-binding Growth-associated Molecule Bind to Heparin/Heparan Sulfate and Regulate Neurite Extension and Plasticity in Hippocampal Neurons. Journal of Biological Chemistry, 2005, 280, 41576-41583.	3.4	38

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19	Differential patterns of inhibition of the sugar transporters GLUT2, GLUT5 and GLUT7 by flavonoids. Biochemical Pharmacology, 2018, 152, 11-20.	4.4	33
20	Basic fibroblast growth factor does not prevent heparan sulphate proteoglycan catabolism in intact cells, but it alters the distribution of the glycosaminoglycan degradation products. Biochemical Journal, 1999, 337, 471-481.	3.7	30
21	The Interaction between Basic Fibroblast Growth Factor and Heparan Sulfate Can Prevent the in Vitro Degradation of the Glycosaminoglycan by Chinese Hamster Ovary Cell Heparanases. Journal of Biological Chemistry, 1997, 272, 9078-9085.	3.4	29
22	Orai3 Surface Accumulation and Calcium Entry Evoked by Vascular Endothelial Growth Factor. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1987-1994.	2.4	27
23	Transendothelial glucose transport is not restricted by extracellular hyperglycaemia. Vascular Pharmacology, 2016, 87, 219-229.	2.1	22
24	GVI phospholipase A2 role in the stimulatory effect of sphingosine-1-phosphate on TRPC5 cationic channels. Cell Calcium, 2011, 50, 343-350.	2.4	19
25	A decade with the juvenile hormone receptor. Advances in Insect Physiology, 2021, 60, 37-85.	2.7	19
26	Long term treatment with quercetin in contrast to the sulfate and glucuronide conjugates affects HIF1Î± stability and Nrf2 signaling in endothelial cells and leads to changes in glucose metabolism. Free Radical Biology and Medicine, 2019, 137, 158-168.	2.9	17
27	Expression of a long variant of CRACR2A that belongs to the Rab GTPase protein family in endothelial cells. Biochemical and Biophysical Research Communications, 2015, 456, 398-402.	2.1	15
28	Epidermal transformation leads to increased perlecan synthesis with heparin-binding-growth-factor affinity. Biochemical Journal, 2001, 355, 517.	3.7	15
29	Effects of quercetin and metabolites on uric acid biosynthesis and consequences for gene expression in the endothelium. Free Radical Biology and Medicine, 2021, 162, 191-201.	2.9	13
30	Basic fibroblast growth factor does not prevent heparan sulphate proteoglycan catabolism in intact cells, but it alters the distribution of the glycosaminoglycan degradation products. Biochemical Journal, 1999, 337, 471.	3.7	10
31	Cellular Asymmetric Catalysis by UDP-glucuronosyltransferase 1A8 Shows Functional Localization to the Basolateral Plasma Membrane. Journal of Biological Chemistry, 2015, 290, 7622-7633.	3.4	8
32	Indirect Chronic Effects of an Oleuropein-Rich Olive Leaf Extract on Sucrase-Isomaltase In Vitro and In Vivo. Nutrients, 2019, 11, 1505.	4.1	7
33	Binding of de novo synthesized radiolabeled juvenile hormone (JH III) by JH receptors from the Cuban subterranean termite Prorhinotermes simplex and the German cockroach Blattella germanica. Insect Biochemistry and Molecular Biology, 2021, 139, 103671.	2.7	7
34	TRPC1 transcript variants, inefficient nonsense-mediated decay and low up-frameshift-1 in vascular smooth muscle cells. BMC Molecular Biology, 2011, 12, 30.	3.0	6
35	The Two Thrombospondin Type I Repeat Domains of HB-GAM Display a Cooperative Function in N-syndecan Binding and Regulation of Synaptic Plasticity. Scientific World Journal, The, 2006, 6, 406-409.	2.1	4
36	Inhibition of intestinal glucose transport by polyphenols: a mechanism for indirect attenuation of cholesterol absorption?. Food and Function, 2019, 10, 3127-3134.	4.6	4

#	Article	IF	Citations
37	The effect of quercetin on endothelial cells is modified by heterocellular interactions. Food and Function, 2020, 11, 3916-3925.	4.6	2
38	Bridgehead Modifications of Englerin A Reduce TRPC4 Activity and Intravenous Toxicity but not Cell Growth Inhibition. ACS Medicinal Chemistry Letters, 2020, 11, 1711-1716.	2.8	1