

# Sarka Tumova

## List of Publications by Year in descending order

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38  
papers

2,961  
citations

304368

22  
h-index

315357

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. <i>Nature</i> , 2014, 515, 279-282.	13.7	813
2	Heparan sulfate proteoglycans on the cell surface: versatile coordinators of cellular functions. <i>International Journal of Biochemistry and Cell Biology</i> , 2000, 32, 269-288.	1.2	338
3	Syndecan-4 Binding to the High Affinity Heparin-Binding Domain of Fibronectin Drives Focal Adhesion Formation in Fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2000, 374, 66-72.	1.4	203
4	Analysis of proinflammatory activity of highly purified eukaryotic recombinant HMGB1 (amphoterin). <i>Journal of Leukocyte Biology</i> , 2007, 81, 49-58.	1.5	190
5	Orai1 and CRAC Channel Dependence of VEGF-Activated Ca <sup>2+</sup> Entry and Endothelial Tube Formation. <i>Circulation Research</i> , 2011, 108, 1190-1198.	2.0	172
6	Heparan sulfate proteoglycan syndecan-3 is a novel receptor for GDNF, neurturin, and artemin. <i>Journal of Cell Biology</i> , 2011, 192, 153-169.	2.3	164
7	N-syndecan deficiency impairs neural migration in brain. <i>Journal of Cell Biology</i> , 2006, 174, 569-580.	2.3	114
8	Heparan Sulfate Chains from Glypican and Syndecans Bind the Hep II Domain of Fibronectin Similarly Despite Minor Structural Differences. <i>Journal of Biological Chemistry</i> , 2000, 275, 9410-9417.	1.6	103
9	Syndecan-4 Associates with $\beta$ -Actinin. <i>Journal of Biological Chemistry</i> , 2003, 278, 7617-7623.	1.6	100
10	RAGE-Mediated Cell Signaling. <i>Methods in Molecular Biology</i> , 2013, 963, 239-263.	0.4	74
11	Pregnenolone sulphate-independent inhibition of TRPM3 channels by progesterone. <i>Cell Calcium</i> , 2012, 51, 1-11.	1.1	72
12	Acute metabolic actions of the major polyphenols in chamomile: an in vitro mechanistic study on their potential to attenuate postprandial hyperglycaemia. <i>Scientific Reports</i> , 2018, 8, 5471.	1.6	61
13	Gut microbiome catabolites as novel modulators of muscle cell glucose metabolism. <i>FASEB Journal</i> , 2019, 33, 1887-1898.	0.2	51
14	Inhibition of endothelial cell Ca <sup>2+</sup> entry and transient receptor potential channels by S $\gamma$ 1 receptor ligands. <i>British Journal of Pharmacology</i> , 2013, 168, 1445-1455.	2.7	48
15	Chronic exposure to short-chain fatty acids modulates transport and metabolism of microbiome-derived phenolics in human intestinal cells. <i>Journal of Nutritional Biochemistry</i> , 2017, 39, 156-168.	1.9	47
16	$\beta$ 2 (1 $\mu$ 40) Prevents Heparanase-catalyzed Degradation of Heparan Sulfate Glycosaminoglycans and Proteoglycans in Vitro. <i>Journal of Biological Chemistry</i> , 1997, 272, 17005-17011.	1.6	45
17	Quercetin preserves redox status and stimulates mitochondrial function in metabolically-stressed HepG2 cells. <i>Free Radical Biology and Medicine</i> , 2018, 129, 296-309.	1.3	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. <i>Journal of Biological Chemistry</i> , 2005, 280, 41576-41583.	1.6	38

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19	Differential patterns of inhibition of the sugar transporters GLUT2, GLUT5 and GLUT7 by flavonoids. <i>Biochemical Pharmacology</i> , 2018, 152, 11-20.	2.0	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. <i>Biochemical Journal</i> , 1999, 337, 471-481.	1.7	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. <i>Journal of Biological Chemistry</i> , 1997, 272, 9078-9085.	1.6	29
22	Orai3 Surface Accumulation and Calcium Entry Evoked by Vascular Endothelial Growth Factor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1987-1994.	1.1	27
23	Transendothelial glucose transport is not restricted by extracellular hyperglycaemia. <i>Vascular Pharmacology</i> , 2016, 87, 219-229.	1.0	22
24	GVI phospholipase A2 role in the stimulatory effect of sphingosine-1-phosphate on TRPC5 cationic channels. <i>Cell Calcium</i> , 2011, 50, 343-350.	1.1	19
25	A decade with the juvenile hormone receptor. <i>Advances in Insect Physiology</i> , 2021, 60, 37-85.	1.1	19
26	Long term treatment with quercetin in contrast to the sulfate and glucuronide conjugates affects HIF1 $\alpha$ stability and Nrf2 signaling in endothelial cells and leads to changes in glucose metabolism. <i>Free Radical Biology and Medicine</i> , 2019, 137, 158-168.	1.3	17
27	Expression of a long variant of CRACR2A that belongs to the Rab GTPase protein family in endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 398-402.	1.0	15
28	Epidermal transformation leads to increased perlecan synthesis with heparin-binding-growth-factor affinity. <i>Biochemical Journal</i> , 2001, 355, 517.	1.7	15
29	Effects of quercetin and metabolites on uric acid biosynthesis and consequences for gene expression in the endothelium. <i>Free Radical Biology and Medicine</i> , 2021, 162, 191-201.	1.3	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. <i>Biochemical Journal</i> , 1999, 337, 471.	1.7	10
31	Cellular Asymmetric Catalysis by UDP-glucuronosyltransferase 1A8 Shows Functional Localization to the Basolateral Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2015, 290, 7622-7633.	1.6	8
32	Indirect Chronic Effects of an Oleuropein-Rich Olive Leaf Extract on Sucrase-Isomaltase In Vitro and In Vivo. <i>Nutrients</i> , 2019, 11, 1505.	1.7	7
33	Binding of de novo synthesized radiolabeled juvenile hormone (JH III) by JH receptors from the Cuban subterranean termite <i>Prorethia simplex</i> and the German cockroach <i>Blattella germanica</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2021, 139, 103671.	1.2	7
34	TRPC1 transcript variants, inefficient nonsense-mediated decay and low up-frameshift-1 in vascular smooth muscle cells. <i>BMC Molecular Biology</i> , 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. <i>Scientific World Journal</i> , The, 2006, 6, 406-409.	0.8	4
36	Inhibition of intestinal glucose transport by polyphenols: a mechanism for indirect attenuation of cholesterol absorption?. <i>Food and Function</i> , 2019, 10, 3127-3134.	2.1	4

#	ARTICLE	IF	CITATIONS
37	The effect of quercetin on endothelial cells is modified by heterocellular interactions. Food and Function, 2020, 11, 3916-3925.	2.1	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.	1.3	1