

# Svetlana B Tikunova

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3401979/publications.pdf>

Version: 2024-02-01

20  
papers

663  
citations

623734

14  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

497  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Thin and Thick Filament Proteins on Calcium Binding and Exchange with Cardiac Troponin C. <i>Biophysical Journal</i> , 2007, 92, 3195-3206.	0.5	103
2	Designing Calcium-sensitizing Mutations in the Regulatory Domain of Cardiac Troponin C. <i>Journal of Biological Chemistry</i> , 2004, 279, 35341-35352.	3.4	74
3	Ca <sup>2+</sup> exchange with troponin C and cardiac muscle dynamics. <i>Cardiovascular Research</i> , 2007, 77, 619-626.	3.8	68
4	Effect of Hydrophobic Residue Substitutions with Glutamine on Ca <sup>2+</sup> Binding and Exchange with the N-Domain of Troponin C. <i>Biochemistry</i> , 2002, 41, 6697-6705.	2.5	62
5	Acid Pairs Increase the N-Terminal Ca <sup>2+</sup> Affinity of CaM by Increasing the Rate of Ca <sup>2+</sup> Association. <i>Biochemistry</i> , 2000, 39, 13831-13837.	2.5	47
6	Effect of Calcium-Sensitizing Mutations on Calcium Binding and Exchange with Troponin C in Increasingly Complex Biochemical Systems. <i>Biochemistry</i> , 2010, 49, 1975-1984.	2.5	41
7	Myofilament Calcium Sensitivity: Consequences of the Effective Concentration of Troponin I. <i>Frontiers in Physiology</i> , 2016, 7, 632.	2.8	37
8	Engineering Competitive Magnesium Binding into the First EF-hand of Skeletal Troponin C. <i>Journal of Biological Chemistry</i> , 2002, 277, 49716-49726.	3.4	34
9	Gene Transfer of Engineered Calmodulin Alleviates Ventricular Arrhythmias in a Calsequestrin-Associated Mouse Model of Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	32
10	Modifying Mg <sup>2+</sup> Binding and Exchange with the N-Terminal of Calmodulin. <i>Biochemistry</i> , 2001, 40, 3348-3353.	2.5	28
11	Discovery of Novel Small-Molecule Calcium Sensitizers for Cardiac Troponin C: A Combined Virtual and Experimental Screening Approach. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3648-3661.	5.4	25
12	Successful Identification of Cardiac Troponin Calcium Sensitizers Using a Combination of Virtual Screening and ROC Analysis of Known Troponin C Binders. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 3056-3069.	5.4	24
13	Modulation of the rate of cardiac muscle contraction by troponin C constructs with various calcium binding affinities. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2580-H2587.	3.2	23
14	Designing proteins to combat disease: Cardiac troponin C as an example. <i>Archives of Biochemistry and Biophysics</i> , 2016, 601, 4-10.	3.0	14
15	Calmodulin-Calcineurin Interaction beyond the Calmodulin-Binding Region Contributes to Calcineurin Activation. <i>Biochemistry</i> , 2019, 58, 4070-4085.	2.5	14
16	3-Chlorodiphenylamine activates cardiac troponin by a mechanism distinct from bepridil or TFP. <i>Journal of General Physiology</i> , 2019, 151, 9-17.	1.9	14
17	Divergent Soybean Calmodulins Respond Similarly to Calcium Transients: Insight into Differential Target Regulation. <i>Frontiers in Plant Science</i> , 2017, 08, 208.	3.6	10
18	Knock-in mice harboring a Ca <sup>2+</sup> desensitizing mutation in cardiac troponin C develop early onset dilated cardiomyopathy. <i>Frontiers in Physiology</i> , 2015, 6, 242.	2.8	9

#	ARTICLE	IF	CITATIONS
19	Small Molecule RPI-194 Stabilizes Activated Troponin to Increase the Calcium Sensitivity of Striated Muscle Contraction. <i>Frontiers in Physiology</i> , 0, 13, .	2.8	4
20	RPI-194 is a Novel Troponin Activator that Increases the Calcium Sensitivity of Striated Muscle Contraction. <i>FASEB Journal</i> , 2022, 36, .	0.5	0