

# Seth L Robia

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,282  
citations

361413  
20  
h-index

395702  
33  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1176  
citing authors

#	ARTICLE	IF	CITATIONS
1	A kink in DWORF helical structure controls the activation of the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase. <i>Structure</i> , 2022, 30, 360-370.e6.	3.3	8
2	Fluorescence lifetime imaging microscopy reveals sodium pump dimers in live cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101865.	3.4	12
3	Inhibitory and stimulatory micropeptides preferentially bind to different conformations of the cardiac calcium pump. <i>Journal of Biological Chemistry</i> , 2022, 298, 102060.	3.4	10
4	Primitive Phospholamban- and Sarcolipin-like Peptides Inhibit the Sarcoplasmic Reticulum Calcium Pump SERCA. <i>Biochemistry</i> , 2022, 61, 1419-1430.	2.5	2
5	FXD proteins and sodium pump regulatory mechanisms. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	16
6	Dwarf open reading frame (DWORF) is a direct activator of the sarcoplasmic reticulum calcium pump SERCA. <i>ELife</i> , 2021, 10, .	6.0	31
7	Presenilin 1 is a direct regulator of the cardiac sarco/endoplasmic reticulum calcium pump. <i>Cell Calcium</i> , 2021, 99, 102468.	2.4	3
8	The Ile191Val is a partial loss-of-function variant of the TAS1R2 sweet-taste receptor and is associated with reduced glucose excursions in humans. <i>Molecular Metabolism</i> , 2021, 54, 101339.	6.5	10
9	Intrinsically disordered HAX-1 regulates Ca <sup>2+</sup> cycling by interacting with lipid membranes and the phospholamban cytoplasmic region. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183034.	2.6	8
10	Dimerization of SERCA2a Enhances Transport Rate and Improves Energetic Efficiency in Living Cells. <i>Biophysical Journal</i> , 2020, 119, 1456-1465.	0.5	10
11	Protein docking and steered molecular dynamics suggest alternative phospholamban-binding sites on the SERCA calcium transporter. <i>Journal of Biological Chemistry</i> , 2020, 295, 11262-11274.	3.4	15
12	Dynamics-Driven Allostery Underlies Ca <sup>2+</sup> -Mediated Release of SERCA Inhibition by Phospholamban. <i>Biophysical Journal</i> , 2020, 119, 1917-1926.	0.5	10
13	Newly Discovered Micropeptide Regulators of SERCA Form Oligomers but Bind to the Pump as Monomers. <i>Journal of Molecular Biology</i> , 2019, 431, 4429-4443.	4.2	48
14	Novel approach for quantification of endoplasmic reticulum Ca <sup>2+</sup> transport. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1323-H1331.	3.2	19
15	Defects in assembly explain reduced antiviral activity of the G249D polymorphism in human TRIM5 <sup>Δ</sup> . <i>PLoS ONE</i> , 2019, 14, e0212888.	2.5	0
16	Skin cells prefer a slower calcium pump. <i>Journal of Biological Chemistry</i> , 2018, 293, 3890-3891.	3.4	4
17	The DWORF micropeptide enhances contractility and prevents heart failure in a mouse model of dilated cardiomyopathy. <i>ELife</i> , 2018, 7, .	6.0	86
18	Redistribution of SERCA calcium pump conformers during intracellular calcium signaling. <i>Journal of Biological Chemistry</i> , 2018, 293, 10843-10856.	3.4	25

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19	Regulation of Focal Adhesion Kinase through a Direct Interaction with an Endogenous Inhibitor. <i>Biochemistry</i> , 2017, 56, 4722-4731.	2.5	4
20	Dynamic conformational changes in the rhesus TRIM5 $\alpha$ dimer dictate the potency of HIV-1 restriction. <i>Virology</i> , 2017, 500, 161-168.	2.4	10
21	L30A Mutation of Phospholemman Mimics Effects of Cardiac Glycosides in Isolated Cardiomyocytes. <i>Biochemistry</i> , 2016, 55, 6196-6204.	2.5	5
22	Restrictive Cardiomyopathy Troponin I R145W Mutation Does Not Perturb Myofilament Length-dependent Activation in Human Cardiac Sarcomeres. <i>Journal of Biological Chemistry</i> , 2016, 291, 21817-21828.	3.4	35
23	Cardiac Calcium ATPase Dimerization Measured by Cross-Linking and Fluorescence Energy Transfer. <i>Biophysical Journal</i> , 2016, 111, 1192-1202.	0.5	26
24	Focal Adhesion Kinase Anchoring Kinetics and Regulatory Interactions Quantified by Total Internal Reflection Fluorescence Microscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 69-70.	0.4	0
25	Rheostatic Regulation of the SERCA/Phospholamban Membrane Protein Complex Using Non-Coding RNA and Single-Stranded DNA oligonucleotides. <i>Scientific Reports</i> , 2015, 5, 13000.	3.3	8
26	ATP $\beta$ -Binding Cassette Transporter Structure Changes Detected by Intramolecular Fluorescence Energy Transfer for High-Throughput Screening. <i>Molecular Pharmacology</i> , 2015, 88, 84-94.	2.3	18
27	A Structural Mechanism for Calcium Transporter Headpiece Closure. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1407-1415.	2.6	24
28	Acute Inotropic and Lusitropic Effects of Cardiomyopathic R9C Mutation of Phospholamban. <i>Journal of Biological Chemistry</i> , 2015, 290, 7130-7140.	3.4	21
29	Phospholamban C-terminal Residues Are Critical Determinants of the Structure and Function of the Calcium ATPase Regulatory Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 25855-25866.	3.4	14
30	Restriction of HIV-1 by Rhesus TRIM5 $\alpha$ Is Governed by Alpha Helices in the Linker2 Region. <i>Journal of Virology</i> , 2014, 88, 8911-8923.	3.4	9
31	Discovery of Enzyme Modulators via High-Throughput Time-Resolved FRET in Living Cells. <i>Journal of Biomolecular Screening</i> , 2014, 19, 215-222.	2.6	88
32	Abstract 12646: Oxidation-Dependent Phosphomimetic Effect of a Human Heart Failure Mutation of Phospholamban. <i>Circulation</i> , 2014, 130, .	1.6	0
33	Abstract 12676: C-Terminal Residues of Phospholamban are Critical Determinants of the Quaternary Structure and Function of the Calcium ATPase Regulatory Complex. <i>Circulation</i> , 2014, 130, .	1.6	0
34	Abstract 16905: Fluorescence Resonance Energy Transfer Reveals that Cardiac Calcium ATPase Dimerizes and Forms a Complex with Phospholamban in a 2:1 Stoichiometry. <i>Circulation</i> , 2014, 130, .	1.6	0
35	Abstract 19557: Novel Stress Signaling JNK Regulates Pro-arrhythmic Molecular CaMKII $\beta$ Activity and Expression in Aged Human Atrium. <i>Circulation</i> , 2014, 130, .	1.6	1
36	Phosphorylated Phospholamban Stabilizes a Compact Conformation of the Cardiac Calcium-ATPase. <i>Biophysical Journal</i> , 2013, 105, 1812-1821.	0.5	45

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37	2-Color Calcium Pump Reveals Closure of the Cytoplasmic Headpiece with Calcium Binding. PLoS ONE, 2012, 7, e40369.	2.5	40
38	Serine-910 phosphorylation of focal adhesion kinase is critical for sarcomere reorganization in cardiomyocyte hypertrophy. Cardiovascular Research, 2011, 92, 409-419.	3.8	32
39	Phospholamban Binds with Differential Affinity to Calcium Pump Conformers. Journal of Biological Chemistry, 2011, 286, 35044-35050.	3.4	63
40	Phosphomimetic Mutations Enhance Oligomerization of Phospholamban and Modulate Its Interaction with the Na/K-ATPase. Journal of Biological Chemistry, 2011, 286, 9120-9126.	3.4	29
41	Oligomeric Interactions of Sarcolipin and the Ca-ATPase. Journal of Biological Chemistry, 2011, 286, 31697-31706.	3.4	42
42	Lethal Arg9Cys phospholamban mutation hinders Ca <sup>2+</sup> -ATPase regulation and phosphorylation by protein kinase A. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2735-2740.	7.1	64
43	Spatiotemporally Distinct Protein Kinase D Activation in Adult Cardiomyocytes in Response to Phenylephrine and Endothelin. Journal of Biological Chemistry, 2011, 286, 33390-33400.	3.4	38
44	Focal Adhesion Kinase-Related Nonkinase Inhibits Vascular Smooth Muscle Cell Invasion by Focal Adhesion Targeting, Tyrosine 168 Phosphorylation, and Competition for p130 Cas Binding. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2432-2440.	2.4	12
45	FRNK Inhibition of Focal Adhesion Kinase-Dependent Signaling and Migration in Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 2226-2233.	2.4	17
46	Relative Affinity of Calcium Pump Isoforms for Phospholamban Quantified by Fluorescence Resonance Energy Transfer. Journal of Molecular Biology, 2010, 402, 210-216.	4.2	21
47	Isoform Specificity of the Na/K-ATPase Association and Regulation by Phospholamban. Journal of Biological Chemistry, 2009, 284, 26749-26757.	3.4	65
48	Phospholamban Oligomerization, Quaternary Structure, and Sarco(endo)plasmic Reticulum Calcium ATPase Binding Measured by Fluorescence Resonance Energy Transfer in Living Cells. Journal of Biological Chemistry, 2008, 283, 12202-12211.	3.4	56
49	Phosphomimetic Mutations Increase Phospholamban Oligomerization and Alter the Structure of Its Regulatory Complex. Journal of Biological Chemistry, 2008, 283, 28996-29003.	3.4	51
50	Förster Transfer Recovery Reveals That Phospholamban Exchanges Slowly From Pentamers but Rapidly From the SERCA Regulatory Complex. Circulation Research, 2007, 101, 1123-1129.	4.5	61
51	Phospholamban Pentamer Quaternary Conformation Determined by In-Gel Fluorescence Anisotropy. Biochemistry, 2005, 44, 4302-4311.	2.5	56