

Jose Renato Pinto

List of Publications by Year in descending order

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106
papers

2,232
citations

236833

25
h-index

254106

43
g-index

109
all docs

109
docs citations

109
times ranked

2279
citing authors

#	ARTICLE	IF	CITATIONS
1	Myofilament Ca ²⁺ sensitization causes susceptibility to cardiac arrhythmia in mice. Journal of Clinical Investigation, 2008, 118, 3893-903.	3.9	201
2	Mutations in Troponin that cause HCM, DCM AND RCM: What can we learn about thin filament function?. Journal of Molecular and Cellular Cardiology, 2010, 48, 882-892.	0.9	176
3	Molecular and functional characterization of novel hypertrophic cardiomyopathy susceptibility mutations in TNNC1-encoded troponin C. Journal of Molecular and Cellular Cardiology, 2008, 45, 281-288.	0.9	111
4	Clinical and Functional Characterization of <i>TNNT2</i> Mutations Identified in Patients With Dilated Cardiomyopathy. Circulation: Cardiovascular Genetics, 2009, 2, 306-313.	5.1	95
5	A Functional and Structural Study of Troponin C Mutations Related to Hypertrophic Cardiomyopathy. Journal of Biological Chemistry, 2009, 284, 19090-19100.	1.6	83
6	Correcting diastolic dysfunction by Ca ²⁺ desensitizing troponin in a transgenic mouse model of restrictive cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2010, 49, 402-411.	0.9	65
7	Hypertrophic cardiomyopathy-linked mutation in troponin T causes myofibrillar disarray and pro-arrhythmic action potential changes in human iPSC cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2018, 114, 320-327.	0.9	63
8	Collagen XIV is important for growth and structural integrity of the myocardium. Journal of Molecular and Cellular Cardiology, 2012, 53, 626-638.	0.9	60
9	Troponin through the looking-glass: emerging roles beyond regulation of striated muscle contraction. Oncotarget, 2018, 9, 1461-1482.	0.8	58
10	Functional Consequences of the Human Cardiac Troponin I Hypertrophic Cardiomyopathy Mutation R145G in Transgenic Mice. Journal of Biological Chemistry, 2008, 283, 20484-20494.	1.6	54
11	Cardiac Troponin Mutations and Restrictive Cardiomyopathy. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-9.	3.0	54
12	A Troponin T Mutation That Causes Infantile Restrictive Cardiomyopathy Increases Ca ²⁺ Sensitivity of Force Development and Impairs the Inhibitory Properties of Troponin. Journal of Biological Chemistry, 2008, 283, 2156-2166.	1.6	52
13	Constitutive Phosphorylation of Cardiac Myosin Regulatory Light Chain in Vivo. Journal of Biological Chemistry, 2015, 290, 10703-10716.	1.6	52
14	The structure of the native cardiac thin filament at systolic Ca ²⁺ levels. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	52
15	A Mutation in TNNC1-encoded Cardiac Troponin C, TNNC1-A31S, Predisposes to Hypertrophic Cardiomyopathy and Ventricular Fibrillation. Journal of Biological Chemistry, 2012, 287, 31845-31855.	1.6	50
16	<i>S</i> -Nitrosylation of Sarcomeric Proteins Depresses Myofilament Ca ²⁺ Sensitivity in Intact Cardiomyocytes. Antioxidants and Redox Signaling, 2015, 23, 1017-1034.	2.5	47
17	Functional Characterization of TNNC1 Rare Variants Identified in Dilated Cardiomyopathy. Journal of Biological Chemistry, 2011, 286, 34404-34412.	1.6	43
18	Genotype-specific pathogenic effects in human dilated cardiomyopathy. Journal of Physiology, 2017, 595, 4677-4693.	1.3	42

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19	Functional Effects of a Restrictive-Cardiomyopathy-Linked Cardiac Troponin I Mutation (R145W) in Transgenic Mice. <i>Journal of Molecular Biology</i> , 2009, 392, 1158-1167.	2.0	41
20	Generation and Functional Characterization of Knock-in Mice Harboring the Cardiac Troponin I-R21C Mutation Associated with Hypertrophic Cardiomyopathy. <i>Journal of Biological Chemistry</i> , 2012, 287, 2156-2167.	1.6	38
21	In Vivo Analysis of Troponin C Knock-In (A8V) Mice. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 653-664.	5.1	32
22	Meta-analysis of cardiomyopathy-associated variants in troponin genes identifies loci and intragenic hot spots that are associated with worse clinical outcomes. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 142, 118-125.	0.9	30
23	Absence of Myocardial Thyroid Hormone Inactivating Deiodinase Results in Restrictive Cardiomyopathy in Mice. <i>Molecular Endocrinology</i> , 2012, 26, 809-818.	3.7	29
24	Long Term Ablation of Protein Kinase A (PKA)-mediated Cardiac Troponin I Phosphorylation Leads to Excitation-Contraction Uncoupling and Diastolic Dysfunction in a Knock-in Mouse Model of Hypertrophic Cardiomyopathy. <i>Journal of Biological Chemistry</i> , 2014, 289, 23097-23111.	1.6	29
25	Strong Cross-bridges Potentiate the Ca ²⁺ Affinity Changes Produced by Hypertrophic Cardiomyopathy Cardiac Troponin C Mutants in Myofilaments. <i>Journal of Biological Chemistry</i> , 2011, 286, 1005-1013.	1.6	28
26	Increases of desmin and β -actinin in mouse cardiac myofibrils as a response to diastolic dysfunction. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 99, 218-229.	0.9	28
27	Structural and functional impact of troponin C-mediated Ca ²⁺ sensitization on myofilament lattice spacing and cross-bridge mechanics in mouse cardiac muscle. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 123, 26-37.	0.9	27
28	Predicting Cardiomyopathic Phenotypes by Altering Ca ²⁺ Affinity of Cardiac Troponin C. <i>Journal of Biological Chemistry</i> , 2010, 285, 27785-27797.	1.6	26
29	A Dilated Cardiomyopathy Troponin C Mutation Lowers Contractile Force by Reducing Strong Myosin-Actin Binding. <i>Journal of Biological Chemistry</i> , 2010, 285, 17371-17379.	1.6	25
30	Oxidative Stress in Muscle Diseases: Current and Future Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-4.	1.9	24
31	The intrinsically disordered C terminus of troponin T binds to troponin C to modulate myocardial force generation. <i>Journal of Biological Chemistry</i> , 2019, 294, 20054-20069.	1.6	23
32	The Functional Properties of Human Slow Skeletal Troponin T Isoforms in Cardiac Muscle Regulation. <i>Journal of Biological Chemistry</i> , 2012, 287, 37362-37370.	1.6	21
33	Amide hydrogens reveal a temperature-dependent structural transition that enhances site-II Ca ²⁺ -binding affinity in a C-domain mutant of cardiac troponin C. <i>Scientific Reports</i> , 2017, 7, 691.	1.6	21
34	Fetal Cardiac Troponin Isoforms Rescue the Increased Ca ²⁺ Sensitivity Produced by a Novel Double Deletion in Cardiac Troponin T Linked to Restrictive Cardiomyopathy. <i>Journal of Biological Chemistry</i> , 2011, 286, 20901-20912.	1.6	19
35	Fast skeletal myosin-binding protein-C regulates fast skeletal muscle contraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
36	Troponins, intrinsic disorder, and cardiomyopathy. <i>Biological Chemistry</i> , 2016, 397, 731-751.	1.2	18

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37	Stabilization of the cardiac sarcolemma by sarcospan rescues DMD-associated cardiomyopathy. JCI Insight, 2019, 4, .	2.3	18
38	Myofilament Calcium-Buffering Dependent Action Potential Triangulation in Human-Induced Pluripotent Stem Cell Model of Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2017, 70, 2600-2602.	1.2	17
39	Myofibril orientation as a metric for characterizing heart disease. Biophysical Journal, 2022, 121, 565-574.	0.2	17
40	Enhanced troponin I binding explains the functional changes produced by the hypertrophic cardiomyopathy mutation A8V of cardiac troponin C. Archives of Biochemistry and Biophysics, 2016, 601, 97-104.	1.4	16
41	Hypertrophic Cardiomyopathy Cardiac Troponin C Mutations Differentially Affect Slow Skeletal and Cardiac Muscle Regulation. Frontiers in Physiology, 2017, 8, 221.	1.3	16
42	Allosteric Transmission along a Loosely Structured Backbone Allows a Cardiac Troponin C Mutant to Function with Only One Ca ²⁺ Ion. Journal of Biological Chemistry, 2017, 292, 2379-2394.	1.6	15
43	Familial Dilated Cardiomyopathy Associated With a Novel Combination of Compound Heterozygous TNNC1 Variants. Frontiers in Physiology, 2019, 10, 1612.	1.3	15
44	Myofilament calcium de-sensitization and contractile uncoupling prevent pause-triggered ventricular tachycardia in mouse hearts with chronic myocardial infarction. Journal of Molecular and Cellular Cardiology, 2013, 60, 8-15.	0.9	14
45	Troponin C Mutations Partially Stabilize the Active State of Regulated Actin and Fully Stabilize the Active State When Paired with β 14 TnT. Biochemistry, 2017, 56, 2928-2937.	1.2	14
46	Will you still need me (Ca ²⁺ , TnT, and DHPR), will you still cleave me (calpain), when I'm 64?. Aging Cell, 2017, 16, 202-204.	3.0	13
47	Fluorescent Protein-Based Ca ²⁺ Sensor Reveals Global, Divalent Cation-Dependent Conformational Changes in Cardiac Troponin C. PLoS ONE, 2016, 11, e0164222.	1.1	13
48	Redox state of Troponin C Cysteine in the D/E helix alters the C-domain affinity for the thin filament of vertebrate striated muscle. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 391-397.	1.1	12
49	Basic residues within the cardiac troponin T C terminus are required for full inhibition of muscle contraction and limit activation by calcium. Journal of Biological Chemistry, 2019, 294, 19535-19545.	1.6	12
50	A comprehensive guide to genetic variants and post-translational modifications of cardiac troponin C. Journal of Muscle Research and Cell Motility, 2020, 42, 323-342.	0.9	12
51	Oxidative Stress in Muscle Diseases: Current and Future Therapy 2019. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-4.	1.9	12
52	Structural and protein interaction effects of hypertrophic and dilated cardiomyopathic mutations in alpha-tropomyosin. Frontiers in Physiology, 2014, 5, 460.	1.3	11
53	Pathogenic variants in TNNC2 cause congenital myopathy due to an impaired force response to calcium. Journal of Clinical Investigation, 2021, 131, .	3.9	11
54	Chemical treatment of mica for atomic force microscopy can affect biological sample conformation. Biophysical Chemistry, 2004, 109, 63-71.	1.5	10

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55	Modulation of troponin C affinity for the thin filament by different cross-bridge states in skinned skeletal muscle fibers. <i>Pflugers Archiv European Journal of Physiology</i> , 2008, 456, 1177-1187.	1.3	10
56	Myosin Rod Hypophosphorylation and CB Kinetics in Papillary Muscles from a TnC-A8V KI Mouse Model. <i>Biophysical Journal</i> , 2017, 112, 1726-1736.	0.2	10
57	Mutation location of HCM-causing troponin T mutations defines the degree of myofilament dysfunction in human cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 150, 77-90.	0.9	10
58	Post-translational modification patterns on β^2 -myosin heavy chain are altered in ischemic and nonischemic human hearts. <i>ELife</i> , 2022, 11, .	2.8	10
59	Ionic interventions that alter the association of troponin C C-domain with the thin filaments of vertebrate striated muscle. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 272-282.	1.1	9
60	Late Onset Sporadic Dilated Cardiomyopathy Caused by a Cardiac Troponin T Mutation. <i>Clinical and Translational Science</i> , 2010, 3, 219-226.	1.5	9
61	Analysis of the Molecular Pathogenesis of Cardiomyopathy-Causing cTnT Mutants I79N, β^2 E96, and β^2 K210. <i>Biophysical Journal</i> , 2013, 104, 1979-1988.	0.2	9
62	Cardiomyocyte nuclearity and ploidy: when is double trouble?. <i>Journal of Muscle Research and Cell Motility</i> , 2020, 41, 329-340.	0.9	9
63	Ca ²⁺ and Mg ²⁺ binding to weak sites of TnC C-domain induces exposure of a large hydrophobic surface that leads to loss of TnC from the thin filament. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 110-122.	1.2	8
64	Pathogenic troponin T mutants with opposing effects on myofilament Ca ²⁺ sensitivity attenuate cardiomyopathy phenotypes in mice. <i>Archives of Biochemistry and Biophysics</i> , 2019, 661, 125-131.	1.4	8
65	Pathogenesis of depression and anxiety-like behavior in an animal model of hypertrophic cardiomyopathy. <i>FASEB Journal</i> , 2017, 31, 2492-2506.	0.2	7
66	Sexual dimorphism in cardiac transcriptome associated with a troponin C murine model of hypertrophic cardiomyopathy. <i>Physiological Reports</i> , 2020, 8, e14396.	0.7	7
67	Anomalous structural dynamics of minimally frustrated residues in cardiac troponin C triggers hypertrophic cardiomyopathy. <i>Chemical Science</i> , 2021, 12, 7308-7323.	3.7	7
68	Aerobic exercise training reduces cardiac function and coronary flow-induced vasodilation in mice lacking adiponectin. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H1-H14.	1.5	7
69	Myosin cross-bridges do not form precise rigor bonds in hypertrophic heart muscle carrying troponin t mutations. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 409-418.	0.9	6
70	Pathogenesis associated with a restrictive cardiomyopathy mutant in cardiac troponin T is due to reduced protein stability and greatly increased myofilament Ca ²⁺ sensitivity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 365-372.	1.1	6
71	The missing links within troponin. <i>Archives of Biochemistry and Biophysics</i> , 2019, 663, 95-100.	1.4	6
72	Eliminating the First Inactive State and Stabilizing the Active State of the Cardiac Regulatory System Alters Behavior in Solution and in Ordered Systems. <i>Biochemistry</i> , 2020, 59, 3487-3497.	1.2	5

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73	Mandibular muscle troponin of the Florida carpenter ant <i>Camponotus floridanus</i> : extending our insights into invertebrate Ca ²⁺ regulation. <i>Journal of Muscle Research and Cell Motility</i> , 2021, 42, 399-417.	0.9	3
74	Low expression of the K280N TNNT2 mutation is sufficient to increase basal myofilament activation in human hypertrophy cardiomyopathy. , 2022, 1, 100007.		2
75	A Novel Mutation in TNNC1-ENCODED Cardiac Troponin C Predisposes to Hypertrophic Cardiomyopathy and Recurrent Episodes of Aborted Sudden Cardiac Death. <i>Biophysical Journal</i> , 2011, 100, 114a.	0.2	0
76	Fetal Cardiac Troponin Isoforms Rescue the Increased Ca ²⁺ Sensitivity Produced by a Novel Double Deletion in Cardiac Troponin T Linked to Restrictive Cardiomyopathy. <i>Biophysical Journal</i> , 2011, 100, 114a-115a.	0.2	0
77	The Functional Consequences of HCM Troponin C Mutations in the Regulation of Slow Skeletal Muscle Contraction. <i>Biophysical Journal</i> , 2012, 102, 155a.	0.2	0
78	The Effect of HCM and RCM Causing Mutations of Troponin T on Force Generation and Cross-Bridge Kinetics in Thin-Filament Reconstituted Bovine Cardiac Muscle Fibers. <i>Biophysical Journal</i> , 2012, 102, 156a.	0.2	0
79	Pseudo-Phosphorylation of Cardiac Troponin I Containing the RCM Troponin T Deletion Glutamic Acid 96 is not an Accurate Indicator of the Phosphorylation Effects by PKA in Skinned Fibers. <i>Biophysical Journal</i> , 2012, 102, 157a.	0.2	0
80	The Hypertrophic Cardiomyopathy Mutation R21C in Cardiac Troponin I Affects Ca ²⁺ Homeostasis and Contractility in Transgenic Cardiomyocytes. <i>Biophysical Journal</i> , 2012, 102, 157a.	0.2	0
81	S-Nitrosylation Decreases Ca ²⁺ Sensitivity and Actomyosin ATPase Activity of Contractile Proteins in Cardiac Myofibrils. <i>Biophysical Journal</i> , 2013, 104, 451a.	0.2	0
82	Instability of D145E, a Cardiac Troponin C Mutant Linked to Cardiomyopathy, Dictates Profound Changes in Ca ²⁺ Regulation of Myofibrils at Increased Temperature. <i>Biophysical Journal</i> , 2013, 104, 449a-450a.	0.2	0
83	Disease Causing Troponin C Mutations Have Varied Effects on Actin Regulatory States. <i>Biophysical Journal</i> , 2014, 106, 722a.	0.2	0
84	Myosin Heavy Chain Isoform Switching in Skeletal Muscles in an A8V-Troponin C Hypertrophic Cardiomyopathy Knock-In Mouse Model. <i>Biophysical Journal</i> , 2014, 106, 775a.	0.2	0
85	Crossing Mice Carrying TnT Disease Mutations with Opposite Effects on the Myofilament Calcium Sensitivity Partially Normalizes Myofilament Function and Ameliorates Cardiomyopathy Phenotypes. <i>Biophysical Journal</i> , 2014, 106, 345a.	0.2	0
86	In Vivo Analysis of Troponin C Knock-In (A8V) Mice: Evidence that TNNC1 is a Hypertrophic Cardiomyopathy Susceptibility Gene. <i>Biophysical Journal</i> , 2014, 106, 723a.	0.2	0
87	Structural and Functional Changes in Skeletal Muscles in an A8V-Troponin C Hypertrophic Cardiomyopathy Knock-In Mouse Model. <i>Biophysical Journal</i> , 2015, 108, 594a.	0.2	0
88	The Functional Consequences of Hypertrophic Cardiomyopathy Troponin C Mutations in the Regulation of Slow Skeletal Muscle Contraction: The Protective Role of Slow Skeletal Troponin I. <i>Biophysical Journal</i> , 2015, 108, 593a-594a.	0.2	0
89	Ca ²⁺ -Sensitivity and Elementary Steps of the Cross-Bridge Cycle in Papillary Muscle Fibers from the Troponin C (TnC)-A8V Knock-In Mouse, which Exhibits Hypertrophic Cardiomyopathy (HCM). <i>Biophysical Journal</i> , 2016, 110, 464a-465a.	0.2	0
90	A8V Mutation of Cardiac Troponin C Enhances Troponin I Binding. <i>Biophysical Journal</i> , 2016, 110, 124a.	0.2	0

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91	Simultaneous Measurement of Force and Lattice Spacing in Skinned Cardiac Fibers. Biophysical Journal, 2016, 110, 120a.	0.2	0
92	Thin Filament-Mediated Modulation of Mouse Cardiac Cross-Bridge Kinetics by Ca ²⁺ -Sensitizing Mutation CTNC-A8V or Bepridil. Biophysical Journal, 2017, 112, 559a.	0.2	0
93	Abnormal Cardiac Cross-Bridge Kinetics in a Troponin T ILE79ASN Transgenic Mouse Model. Biophysical Journal, 2017, 112, 558a-559a.	0.2	0
94	A Novel DCM-Associated Mutation in the N-Helix of Cardiac Troponin C Exhibits Impaired Contractile Kinetics and Reduced Ca ²⁺ -Sensitivity In Vitro. Biophysical Journal, 2017, 112, 559a.	0.2	0
95	Generation and Characterization of a Human iPSC Cardiomyocyte Model of Troponin T I79N Linked Hypertrophic Cardiomyopathy. Biophysical Journal, 2017, 112, 100a.	0.2	0
96	Clinical and Biophysical Characterization of a Mutation in the N-Helix Region of Cardiac Troponin C: Evidence for an Allosteric Mechanism of Contractile Dysfunction. Biophysical Journal, 2018, 114, 568a.	0.2	0
97	Aberrant Cardiac Muscle Mechanics in a Hypertrophic Cardiomyopathy Troponin T ILE79ASN Transgenic Mouse. Biophysical Journal, 2018, 114, 502a.	0.2	0
98	Cardiac Thin Filament-Mediated Calcium Sensitization Modulates Cross-Bridge Kinetics. Biophysical Journal, 2018, 114, 315a-316a.	0.2	0
99	Is Thin Filament Movement Switched On and Off by a Thermodynamic Process Alone. Biophysical Journal, 2018, 114, 136a.	0.2	0
100	Location of Hypertrophic Cardiomyopathy-Causing Troponin T Mutations Determines Degree of Myofilament Dysfunction. Biophysical Journal, 2018, 114, 313a.	0.2	0
101	Weak Domain Stability and Higher Ca ²⁺ Binding Affinity Contribute to Allostery between the D/E Linker and N-Helix of Cardiac Troponin C. Biophysical Journal, 2018, 114, 421a-422a.	0.2	0
102	Dynamic and Structural Allosteric Events between the D/E Linker and N-Domain of Cardiac Troponin C Reveal a Novel Mechanism for Cardiac Muscle Regulation. Biophysical Journal, 2019, 116, 488a.	0.2	0
103	Mechanical contribution to muscle thin filament activation. Journal of Biological Chemistry, 2020, 295, 15913-15922.	1.6	0
104	Exon 12 of slow skeletal troponin t affects calcium sensitivity of force development and interactions with other thin filament components (1102.30). FASEB Journal, 2014, 28, 1102.30.	0.2	0
105	Abstract P350: Myofibril Orientation In Cardiac Muscle And Its Implication For Heart Disease. Circulation Research, 2021, 129, .	2.0	0
106	Abstract P432: Alpha-actinin 2 Missense Variant And Its Role In Cardiac Muscle Force Production And Diastolic Dysfunction. Circulation Research, 2021, 129, .	2.0	0