Anthony O Gramolini

List of Publications by Year
in descending order

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103 papers	6,578 citations	61984 43 h-index	64796 79 g-index
106 all docs	106 docs citations	106 times ranked	10167 citing authors

#	Article	IF	Citations
1	Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death. Nature, 2003, 421, 634-639.	27.8	926
2	SIRPA is a specific cell-surface marker for isolating cardiomyocytes derived from human pluripotent stem cells. Nature Biotechnology, 2011, 29, 1011-1018.	17.5	500
3	Global Survey of Organ and Organelle Protein Expression in Mouse: Combined Proteomic and Transcriptomic Profiling. Cell, 2006, 125, 173-186.	28.9	429
4	Human phospholamban null results in lethal dilated cardiomyopathy revealing a critical difference between mouse and human. Journal of Clinical Investigation, 2003, 111, 869-876.	8.2	380
5	A mutation in the human phospholamban gene, deleting arginine 14, results in lethal, hereditary cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1388-1393.	7.1	303
6	Self-renewing resident arterial macrophages arise from embryonic CX3CR1+ precursors and circulating monocytes immediately after birth. Nature Immunology, 2016, 17, 159-168.	14.5	275
7	Cell-Surface Proteomics Identifies Lineage-Specific Markers of Embryo-Derived Stem Cells. Developmental Cell, 2012, 22, 887-901.	7.0	134
8	Cardiovascular Proteomics. Journal of the American College of Cardiology, 2006, 48, 1733-1741.	2.8	126
9	Multidimensional protein identification technology (MudPIT): Technical overview of a profiling method optimized for the comprehensive proteomic investigation of normal and diseased heart tissue. Journal of the American Society for Mass Spectrometry, 2005, 16, 1207-1220.	2.8	125
10	Proteome Dynamics during C2C12 Myoblast Differentiation. Molecular and Cellular Proteomics, 2005, 4, 887-901.	3.8	118
11	The Ankyrin-B C-terminal Domain Determines Activity of Ankyrin-B/G Chimeras in Rescue of Abnormal Inositol 1,4,5-Trisphosphate and Ryanodine Receptor Distribution in Ankyrin-B (â˜'/â˜') Neonatal Cardiomyocytes. Journal of Biological Chemistry, 2002, 277, 10599-10607.	3.4	105
12	Cardiac-specific overexpression of sarcolipin inhibits sarco(endo)plasmic reticulum Ca2+ ATPase (SERCA2a) activity and impairs cardiac function in mice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9199-9204.	7.1	99
13	Cardiac-specific elevations in thyroid hormone enhance contractility and prevent pressure overload-induced cardiac dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6043-6048.	7.1	93
14	Genes, proteins and complexes: the multifaceted nature of FHL family proteins in diverse tissues. Journal of Cellular and Molecular Medicine, 2010, 14, 2702-2720.	3.6	92
15	Comparative Proteomics Profiling of a Phospholamban Mutant Mouse Model of Dilated Cardiomyopathy Reveals Progressive Intracellular Stress Responses. Molecular and Cellular Proteomics, 2008, 7, 519-533.	3.8	91
16	Targeted proteomics identifies liquid-biopsy signatures for extracapsular prostate cancer. Nature Communications, 2016, 7, 11906.	12.8	89
17	Muscle and Neural Isoforms of Agrin Increase Utrophin Expression in Cultured Myotubes via a Transcriptional Regulatory Mechanism. Journal of Biological Chemistry, 1998, 273, 736-743.	3.4	85
18	Increased expression of utrophin in a slow vs. a fast muscle involves posttranscriptional events. American Journal of Physiology - Cell Physiology, 2001, 281, C1300-C1309.	4.6	83

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19	Machine learning vs. conventional statistical models for predicting heart failure readmission and mortality. ESC Heart Failure, 2021, 8, 106-115.	3.1	82
20	Cardiac-specific overexpression of sarcolipin in phospholamban null mice impairs myocyte function that is restored by phosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2446-2451.	7.1	75
21	An <i>Ryr1</i> ^{<i>I4895T</i>} mutation abolishes Ca ²⁺ release channel function and delays development in homozygous offspring of a mutant mouse line. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18537-18542.	7.1	74
22	Local Transcriptional Control of Utrophin Expression at the Neuromuscular Synapse. Journal of Biological Chemistry, 1997, 272, 8117-8120.	3.4	72
23	In-Depth Proteomics of Ovarian Cancer Ascites: Combining Shotgun Proteomics and Selected Reaction Monitoring Mass Spectrometry. Journal of Proteome Research, 2011, 10, 2286-2299.	3.7	72
24	Identification of Differentially Expressed Proteins in Direct Expressed Prostatic Secretions of Men with Organ-confined Versus Extracapsular Prostate Cancer. Molecular and Cellular Proteomics, 2012, 11, 1870-1884.	3.8	71
25	Co-Expression of SERCA Isoforms, Phospholamban and Sarcolipin in Human Skeletal Muscle Fibers. PLoS ONE, 2013, 8, e84304.	2.5	70
26	HSP70 Binds to the Fast-twitch Skeletal Muscle Sarco(endo)plasmic Reticulum Ca2+-ATPase (SERCA1a) and Prevents Thermal Inactivation. Journal of Biological Chemistry, 2004, 279, 52382-52389.	3.4	69
27	Survival and Cardiac Remodeling After Myocardial Infarction Are Critically Dependent on the Host Innate Immune Interleukin-1 Receptor-Associated Kinase-4 Signaling. Circulation, 2009, 120, 1401-1414.	1.6	67
28	Cathepsinâ€Ł Ameliorates Cardiac Hypertrophy Through Activation of the Autophagyâ€“Lysosomal Dependent Protein Processing Pathways. Journal of the American Heart Association, 2013, 2, e000191.	3.7	67
29	Î±-Crystallin B prevents apoptosis after H₂O₂ exposure in mouse neonatal cardiomyocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H967-H978.	3.2	63
30	Enhanced Ca²⁺ transport and muscle relaxation in skeletal muscle from sarcolipin-null mice. American Journal of Physiology - Cell Physiology, 2011, 301, C841-C849.	4.6	61
31	Peptide Separations by On-Line MudPIT Compared to Isoelectric Focusing in an Off-Gel Format: Application to a Membrane-Enriched Fraction from C2C12 Mouse Skeletal Muscle Cells. Journal of Proteome Research, 2009, 8, 4860-4869.	3.7	60
32	Tbx5-dependent pathway regulating diastolic function in congenital heart disease. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5519-5524.	7.1	59
33	Ankyrins. Journal of Cell Science, 2002, 115, 1565-6.	2.0	59
34	Constitutively active calcineurin induces cardiac endoplasmic reticulum stress and protects against apoptosis that is mediated by Î±-crystallin-B. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18481-18486.	7.1	56
35	Pathway analysis of dilated cardiomyopathy using global proteomic profiling and enrichment maps. Proteomics, 2010, 10, 1316-1327.	2.2	55
36	Cathepsin-L contributes to cardiac repair and remodelling post-infarction. Cardiovascular Research, 2011, 89, 374-383.	3.8	53

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37	Pilot study identifying myosin heavy chain 7, desmin, insulinâ€like growth factor 7, and annexin <scp>A</scp>2 as circulating biomarkers of human heart failure. Proteomics, 2013, 13, 2324-2334.	2.2	52
38	Discordant Expression of Utrophin and Its Transcript in Human and Mouse Skeletal Muscles. Journal of Neuropathology and Experimental Neurology, 1999, 58, 235-244.	1.7	51
39	Distinct regions in the 3â€² untranslated region are responsible for targeting and stabilizing utrophin transcripts in skeletal muscle cells. Journal of Cell Biology, 2001, 154, 1173-1184.	5.2	50
40	Hypoxia-Induced Changes in the Fibroblast Secretome, Exosome, and Whole-Cell Proteome Using Cultured, Cardiac-Derived Cells Isolated from Neonatal Mice. Journal of Proteome Research, 2017, 16, 2836-2847.	3.7	49
41	Sarcolipin retention in the endoplasmic reticulum depends on its C-terminal RSYQY sequence and its interaction with sarco(endo)plasmic Ca2+-ATPases. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16807-16812.	7.1	46
42	Large-Scale Characterization and Analysis of the Murine Cardiac Proteome. Journal of Proteome Research, 2009, 8, 1887-1901.	3.7	45
43	Metformin increases degradation of phospholamban via autophagy in cardiomyocytes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7165-7170.	7.1	45
44	The cardiovascular exosome: Current perspectives and potential. Proteomics, 2013, 13, 1654-1659.	2.2	43
45	Structural determination of the phosphorylation domain of the ryanodine receptor. FEBS Journal, 2012, 279, 3952-3964.	4.7	42
46	Cardiac Overexpression of S100A6 Attenuates Cardiomyocyte Apoptosis and Reduces Infarct Size After Myocardial Ischemiaâ€Reperfusion. Journal of the American Heart Association, 2017, 6, .	3.7	39
47	A Method for the Direct Identification of Differentiating Muscle Cells by a Fluorescent Mitochondrial Dye. PLoS ONE, 2011, 6, e28628.	2.5	36
48	Evolutionarily conserved intercalated disc protein Tmem65 regulates cardiac conduction and connexin 43 function. Nature Communications, 2015, 6, 8391.	12.8	35
49	Global phosphoproteomic profiling reveals perturbed signaling in a mouse model of dilated cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12592-12597.	7.1	35
50	Calnexin Silencing in Mouse Neonatal Cardiomyocytes Induces Ca²⁺ Cycling Defects, ER Stress, and Apoptosis. Journal of Cellular Physiology, 2014, 229, 374-383.	4.1	33
51	A Novel Mechanism for Modulating Synaptic Gene Expression: Differential Localization of Î±-Dystrobrevin Transcripts in Skeletal Muscle. Molecular and Cellular Neurosciences, 2001, 17, 127-140.	2.2	32
52	HACE1-dependent protein degradation provides cardiac protection in response to haemodynamic stress. Nature Communications, 2014, 5, 3430.	12.8	31
53	Recent advances in cardiovascular proteomics. Journal of Proteomics, 2013, 81, 3-14.	2.4	30
54	Identification of biochemical adaptations in hyper- or hypocontractile hearts from phospholamban mutant mice by expression proteomics. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2241-2246.	7.1	29

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55	Machine Learning Compared With Conventional Statistical Models for Predicting Myocardial Infarction Readmission and Mortality: A Systematic Review. Canadian Journal of Cardiology, 2021, 37, 1207-1214.	1.7	29
56	Endoplasmic Reticulum Protein Targeting of Phospholamban: A Common Role for an N-Terminal Di-Arginine Motif in ER Retention?. PLoS ONE, 2010, 5, e11496.	2.5	29
57	Proteomic Analysis of Human Fetal Atria and Ventricle. Journal of Proteome Research, 2014, 13, 5869-5878.	3.7	28
58	REEP5 depletion causes sarco-endoplasmic reticulum vacuolization and cardiac functional defects. Nature Communications, 2020, 11, 965.	12.8	28
59	Endoplasmic Reticulum Resident Protein 44 (ERp44) Deficiency in Mice and Zebrafish Leads to Cardiac Developmental and Functional Defects. Journal of the American Heart Association, 2014, 3, e001018.	3.7	26
60	Whole Genome Sequence of Multiple Myeloma-Prone C57BL/KaLwRij Mouse Strain Suggests the Origin of Disease Involves Multiple Cell Types. PLoS ONE, 2015, 10, e0127828.	2.5	26
61	Mass Spectrometryâ€"Based Proteomics: A Useful Tool for Biomarker Discovery?. Clinical Pharmacology and Therapeutics, 2008, 83, 758-760.	4.7	25
62	Identification of an FHL1 protein complex containing ACTN1, ACTN4, and PDLIM1 using affinity purifications and MS-based proteinâ€"protein interaction analysis. Molecular BioSystems, 2011, 7, 1185.	2.9	25
63	Systems analysis reveals down-regulation of a network of pro-survival miRNAs drives the apoptotic response in dilated cardiomyopathy. Molecular BioSystems, 2015, 11, 239-251.	2.9	23
64	An organ-on-a-chip model for pre-clinical drug evaluation in progressive non-genetic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2021, 160, 97-110.	1.9	23
65	Three-dimensional imaging reveals endo(sarco)plasmic reticulum-containing invaginations within the nucleoplasm of muscle. American Journal of Physiology - Cell Physiology, 2018, 314, C257-C267.	4.6	22
66	Identifying Low-Abundance Biomarkers. Circulation, 2016, 134, 286-289.	1.6	21
67	Neuronatin promotes SERCA uncoupling and its expression is altered in skeletal muscles of highâ€fat dietâ€fed mice. FEBS Letters, 2021, 595, 2756-2767.	2.8	21
68	Proteome analysis of mouse model systems: A tool to model human disease and for the investigation of tissue-specific biology. Journal of Proteomics, 2010, 73, 2205-2218.	2.4	20
69	Regulation and functional significance of utrophin expression at the mammalian neuromuscular synapse. , 2000, 49, 90-100.		18
70	Identification of Novel Ryanodine Receptor 1 (RyR1) Protein Interaction with Calcium Homeostasis Endoplasmic Reticulum Protein (CHERP). Journal of Biological Chemistry, 2011, 286, 17060-17068.	3.4	18
71	Mapping signalling perturbations in myocardial fibrosis via the integrative phosphoproteomic profiling of tissue from diverse sources. Nature Biomedical Engineering, 2020, 4, 889-900.	22.5	17
72	Duchenne muscular dystrophy and the neuromuscular junction: The utrophin link. BioEssays, 1997, 19, 747-750.	2.5	16

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73	Analyzing the Cardiac Muscle Proteome by Liquid Chromatography-Mass Spectrometry-Based Expression Proteomics. , 2007, 357, 15-32.		16
74	Proteomics and Mass Spectrometry: What Have We Learned About The Heart?. Current Cardiology Reviews, 2010, 6, 124-133.	1.5	16
75	Myocardial Infarction Induces Cardiac Fibroblast Transformation within Injured and Noninjured Regions of the Mouse Heart. Journal of Proteome Research, 2021, 20, 2867-2881.	3.7	16
76	Nanoscale reorganization of sarcoplasmic reticulum in pressure-overload cardiac hypertrophy visualized by dSTORM. Scientific Reports, 2019, 9, 7867.	3.3	15
77	Molecular mechanisms and putative signalling events controlling utrophin expression in mammalian skeletal muscle fibres. Neuromuscular Disorders, 1998, 8, 351-361.	0.6	13
78	Urotensin II Receptor Knockout Mice on an ApoE Knockout Background Fed a High-Fat Diet Exhibit an Enhanced Hyperlipidemic and Atherosclerotic Phenotype. Circulation Research, 2009, 105, 686-695.	4.5	13
79	Modeling cardiac complexity: Advancements in myocardial models and analytical techniques for physiological investigation and therapeutic development <i>in vitro</i>. APL Bioengineering, 2019, 3, 011501.	6.2	11
80	Limited Endothelial Plasticity of Mesenchymal Stem Cells Revealed by Quantitative Phenotypic Comparisons to Representative Endothelial Cell Controls. Stem Cells Translational Medicine, 2019, 8, 35-45.	3.3	10
81	Proteomicsâ€based investigations of animal models of disease. Proteomics - Clinical Applications, 2008, 2, 638-653.	1.6	8
82	The Dipeptidyl Peptidase 4 Substrate CXCL12 Has Opposing Cardiac Effects in Young Mice and Aged Diabetic Mice Mediated by Ca2+ Flux and Phosphoinositide 3-Kinase Î³. Diabetes, 2018, 67, 2443-2455.	0.6	8
83	Functional culture and in vitro genetic and small-molecule manipulation of adult mouse cardiomyocytes. Communications Biology, 2020, 3, 229.	4.4	8
84	Bioinformatic analysis of membrane and associated proteins in murine cardiomyocytes and human myocardium. Scientific Data, 2020, 7, 425.	5.3	8
85	Proteome analysis of secretions from human monocyte-derived macrophages post-exposure to biomaterials and the effect of secretions on cardiac fibroblast fibrotic character. Acta Biomaterialia, 2020, 111, 80-90.	8.3	8
86	Deletion of type VIII collagen reduces blood pressure, increases carotid artery functional distensibility and promotes elastin deposition. Matrix Biology Plus, 2021, 12, 100085.	3.5	6
87	Cardiac Proteomics. BioMed Research International, 2014, 2014, 1-3.	1.9	5
88	Membrane proteomic profiling of the heart: past, present, and future. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H417-H423.	3.2	5
89	Mitigating the non-specific uptake of immunomagnetic microparticles enables the extraction of endothelium from human fat. Communications Biology, 2021, 4, 1205.	4.4	5
90	Uncovering early markers of cardiac disease by proteomics: avoiding (heart) failure!. Expert Review of Proteomics, 2005, 2, 631-634.	3.0	4

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91	Clinical Proteomics. Circulation: Cardiovascular Genetics, 2012, 5, 377-377.	5.1	4
92	AKAP6 and phospholamban colocalize and interact in HEKâ€293T cells and primary murine cardiomyocytes. Physiological Reports, 2019, 7, e14144.	1.7	4
93	Self-Assembled Oligo-Urethane Nanoparticles: Their Characterization and Use for the Delivery of Active Biomolecules into Mammalian Cells. ACS Applied Materials & Interfaces, 2021, 13, 58352-58368.	8.0	3
94	Vascular tissue engineering from human adipose tissue: fundamental phenotype of its resident microvascular endothelial cells and stromal/stem cells. Biomaterials and Biosystems, 2022, 6, 100049.	2.2	3
95	Nerve-Derived Trophic Factors and DNA Elements Controlling Expression of Genes Encoding Synaptic Proteins in Skeletal Muscle Fibers. Applied Physiology, Nutrition, and Metabolism, 1998, 23, 366-376.	1.7	2
96	Large-scale studies to identify biomarkers for heart disease: a role for proteomics?. Expert Opinion on Medical Diagnostics, 2009, 3, 133-141.	1.6	2
97	Large-Scale Characterization of the Murine Cardiac Proteome. Methods in Molecular Biology, 2013, 1005, 1-10.	0.9	2
98	Chromosome Condensation 1-Like (Chc1L) Is a Novel Tumor Suppressor Involved in Development of Histiocyte-Rich Neoplasms. PLoS ONE, 2015, 10, e0135755.	2.5	2
99	Towards understanding the role of Receptor Expression Enhancing Protein 5 (REEP5) in cardiac muscle and beyond. Cell Stress, 2020, 4, 151-153.	3.2	2
100	Immunomagnetic Isolation and Enrichment of Microvascular Endothelial Cells from Human Adipose Tissue. Bio-protocol, 2022, 12, .	0.4	2
101	Next-Generation Approaches to Predicting the Need for Heart Failure Hospitalization. Canadian Journal of Cardiology, 2019, 35, 379-381.	1.7	1
102	A proteomic interrogation ofCryptococcus neoformans: interaction networks for calcineurin in a heated environment. Expert Review of Proteomics, 2012, 9, 13-15.	3.0	0
103	Improvement of Ca 2+ Transport and Muscle Relaxation in Skeletal Muscle From Sarcolipin Null Mice. FASEB Journal, 2008, 22, 962.34.	0.5	0