Anthony O Gramolini

List of Publications by Year
in descending order

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	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
2	Immunomagnetic Isolation and Enrichment of Microvascular Endothelial Cells from Human Adipose Tissue. Bio-protocol, 2022, 12, .	0.4	2
3	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
4	Machine learning vs. conventional statistical models for predicting heart failure readmission and mortality. ESC Heart Failure, 2021, 8, 106-115.	3.1	82
5	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
6	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
7	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
8	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
9	Mitigating the non-specific uptake of immunomagnetic microparticles enables the extraction of endothelium from human fat. Communications Biology, 2021, 4, 1205.	4.4	5
10	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
11	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
12	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
13	Functional culture and in vitro genetic and small-molecule manipulation of adult mouse cardiomyocytes. Communications Biology, 2020, 3, 229.	4.4	8
14	Bioinformatic analysis of membrane and associated proteins in murine cardiomyocytes and human myocardium. Scientific Data, 2020, 7, 425.	5.3	8
15	REEP5 depletion causes sarco-endoplasmic reticulum vacuolization and cardiac functional defects. Nature Communications, 2020, 11, 965.	12.8	28
16	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
17	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
18	AKAP6 and phospholamban colocalize and interact in HEKâ€293T cells and primary murine cardiomyocytes. Physiological Reports, 2019, 7, e14144.	1.7	4

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19	Next-Generation Approaches to Predicting the Need for Heart Failure Hospitalization. Canadian Journal of Cardiology, 2019, 35, 379-381.	1.7	1
20	Nanoscale reorganization of sarcoplasmic reticulum in pressure-overload cardiac hypertrophy visualized by dSTORM. Scientific Reports, 2019, 9, 7867.	3.3	15
21	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
22	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
23	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
24	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
25	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
26	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
27	Identifying Low-Abundance Biomarkers. Circulation, 2016, 134, 286-289.	1.6	21
28	Targeted proteomics identifies liquid-biopsy signatures for extracapsular prostate cancer. Nature Communications, 2016, 7, 11906.	12.8	89
29	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
30	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
31	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
32	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
33	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
34	Evolutionarily conserved intercalated disc protein Tmem65 regulates cardiac conduction and connexin 43 function. Nature Communications, 2015, 6, 8391.	12.8	35
35	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
36	Cardiac Proteomics. BioMed Research International, 2014, 2014, 1-3.	1.9	5

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37	Proteomic Analysis of Human Fetal Atria and Ventricle. Journal of Proteome Research, 2014, 13, 5869-5878.	3.7	28
38	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
39	HACE1-dependent protein degradation provides cardiac protection in response to haemodynamic stress. Nature Communications, 2014, 5, 3430.	12.8	31
40	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
41	Recent advances in cardiovascular proteomics. Journal of Proteomics, 2013, 81, 3-14.	2.4	30
42	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
43	The cardiovascular exosome: Current perspectives and potential. Proteomics, 2013, 13, 1654-1659.	2.2	43
44	Large-Scale Characterization of the Murine Cardiac Proteome. Methods in Molecular Biology, 2013, 1005, 1-10.	0.9	2
45	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
46	Co-Expression of SERCA Isoforms, Phospholamban and Sarcolipin in Human Skeletal Muscle Fibers. PLoS ONE, 2013, 8, e84304.	2.5	70
47	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
48	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
49	A proteomic interrogation ofCryptococcus neoformans: interaction networks for calcineurin in a heated environment. Expert Review of Proteomics, 2012, 9, 13-15.	3.0	0
50	Clinical Proteomics. Circulation: Cardiovascular Genetics, 2012, 5, 377-377.	5.1	4
51	Structural determination of the phosphorylation domain of the ryanodine receptor. FEBS Journal, 2012, 279, 3952-3964.	4.7	42
52	Cell-Surface Proteomics Identifies Lineage-Specific Markers of Embryo-Derived Stem Cells. Developmental Cell, 2012, 22, 887-901.	7.0	134
53	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
54	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

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55	A Method for the Direct Identification of Differentiating Muscle Cells by a Fluorescent Mitochondrial Dye. PLoS ONE, 2011, 6, e28628.	2.5	36
56	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
57	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
58	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
59	Cathepsin-L contributes to cardiac repair and remodelling post-infarction. Cardiovascular Research, 2011, 89, 374-383.	3.8	53
60	Proteomics and Mass Spectrometry: What Have We Learned About The Heart?. Current Cardiology Reviews, 2010, 6, 124-133.	1.5	16
61	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
62	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
63	Pathway analysis of dilated cardiomyopathy using global proteomic profiling and enrichment maps. Proteomics, 2010, 10, 1316-1327.	2.2	55
64	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
65	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
66	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
67	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
68	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
69	Large-Scale Characterization and Analysis of the Murine Cardiac Proteome. Journal of Proteome Research, 2009, 8, 1887-1901.	3.7	45
70	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
71	Proteomicsâ€based investigations of animal models of disease. Proteomics - Clinical Applications, 2008, 2, 638-653.	1.6	8
72	Mass Spectrometryâ€“Based Proteomics: A Useful Tool for Biomarker Discovery?. Clinical Pharmacology and Therapeutics, 2008, 83, 758-760.	4.7	25

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73	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
74	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
75	Improvement of Ca 2+ Transport and Muscle Relaxation in Skeletal Muscle From Sarcolipin Null Mice. FASEB Journal, 2008, 22, 962.34.	0.5	0
76	Analyzing the Cardiac Muscle Proteome by Liquid Chromatography-Mass Spectrometry-Based Expression Proteomics. , 2007, 357, 15-32.		16
77	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
78	Cardiovascular Proteomics. Journal of the American College of Cardiology, 2006, 48, 1733-1741.	2.8	126
79	Global Survey of Organ and Organelle Protein Expression in Mouse: Combined Proteomic and Transcriptomic Profiling. Cell, 2006, 125, 173-186.	28.9	429
80	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
81	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
82	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
83	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
84	Proteome Dynamics during C2C12 Myoblast Differentiation. Molecular and Cellular Proteomics, 2005, 4, 887-901.	3.8	118
85	Uncovering early markers of cardiac disease by proteomics: avoiding (heart) failure!. Expert Review of Proteomics, 2005, 2, 631-634.	3.0	4
86	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
87	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
88	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
89	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
90	Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death. Nature, 2003, 421, 634-639.	27.8	926

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91	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
92	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
93	Ankyrins. Journal of Cell Science, 2002, 115, 1565-6.	2.0	59
94	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
95	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
96	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
97	Regulation and functional significance of utrophin expression at the mammalian neuromuscular synapse. , 2000, 49, 90-100.		18
98	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
99	Molecular mechanisms and putative signalling events controlling utrophin expression in mammalian skeletal muscle fibres. Neuromuscular Disorders, 1998, 8, 351-361.	0.6	13
100	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
101	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
102	Local Transcriptional Control of Utrophin Expression at the Neuromuscular Synapse. Journal of Biological Chemistry, 1997, 272, 8117-8120.	3.4	72
103	Duchenne muscular dystrophy and the neuromuscular junction: The utrophin link. BioEssays, 1997, 19, 747-750.	2.5	16