

Cláudia dos Santos Mermelstein

List of Publications by Year in descending order

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80
papers

1,582
citations

430754

18
h-index

345118

36
g-index

85
all docs

85
docs citations

85
times ranked

2451
citing authors

#	ARTICLE	IF	CITATIONS
1	MyoD converts primary dermal fibroblasts, chondroblasts, smooth muscle, and retinal pigmented epithelial cells into striated mononucleated myoblasts and multinucleated myotubes.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 7988-7992.	3.3	351
2	2D and 3D-Organized Cardiac Cells Shows Differences in Cellular Morphology, Adhesion Junctions, Presence of Myofibrils and Protein Expression. PLoS ONE, 2012, 7, e38147.	1.1	114
3	Neutrophil Extracellular Traps (NETs) Promote Pro-Metastatic Phenotype in Human Breast Cancer Cells through Epithelial-Mesenchymal Transition. Cancers, 2020, 12, 1542.	1.7	77
4	Filamentous actin and its associated binding proteins are the stimulatory site for 6-phosphofructo-1-kinase association within the membrane of human erythrocytes. Biochimie, 2010, 92, 538-544.	1.3	59
5	Some distinctive features of zebrafish myogenesis based on unexpected distributions of the muscle cytoskeletal proteins actin, myosin, desmin, β -actinin, troponin and titin. Mechanisms of Development, 2002, 116, 95-104.	1.7	46
6	Wnt/ β -catenin pathway activation and myogenic differentiation are induced by cholesterol depletion. Differentiation, 2007, 75, 184-192.	1.0	44
7	Sciatic nerve regeneration is accelerated in galectin-3 knockout mice. Experimental Neurology, 2009, 217, 7-15.	2.0	43
8	Intermediate filaments modulation in an in vitro model of the hepatic stellate cell activation or conversion into the lipocyte phenotype. Biochemistry and Cell Biology, 2001, 79, 409-417.	0.9	35
9	ROCK inhibition with Fasudil induces beta-catenin nuclear translocation and inhibits cell migration of MDA-MB 231 human breast cancer cells. Scientific Reports, 2017, 7, 13723.	1.6	35
10	Induction of the lipocyte phenotype in murine hepatic stellate cells: reorganisation of the actin cytoskeleton. Cell and Tissue Research, 2001, 306, 75-83.	1.5	33
11	Cholesterol depletion by methyl- β -cyclodextrin enhances myoblast fusion and induces the formation of myotubes with disorganized nuclei. Cell and Tissue Research, 2005, 319, 289-297.	1.5	33
12	Intermediate filament proteins in TPA-treated skeletal muscle cells in culture. Journal of Muscle Research and Cell Motility, 1996, 17, 199-206.	0.9	29
13	Alterations in zebrafish development induced by simvastatin: Comprehensive morphological and physiological study, focusing on muscle. Experimental Biology and Medicine, 2016, 241, 1950-1960.	1.1	29
14	Effects of 5-Fluorouracil in Nuclear and Cellular Morphology, Proliferation, Cell Cycle, Apoptosis, Cytoskeletal and Caveolar Distribution in Primary Cultures of Smooth Muscle Cells. PLoS ONE, 2013, 8, e63177.	1.1	25
15	Membrane cholesterol depletion reduces breast tumor cell migration by a mechanism that involves non-canonical Wnt signaling and IL-10 secretion. Translational Medicine Communications, 2016, 1, .	0.5	24
16	Cholesterol depletion by methyl- β -cyclodextrin enhances cell proliferation and increases the number of desmin-positive cells in myoblast cultures. European Journal of Pharmacology, 2012, 694, 1-12.	1.7	23
17	Induction of Skeletal Muscle Differentiation In Vitro by Therapeutic Ultrasound. Ultrasound in Medicine and Biology, 2014, 40, 504-512.	0.7	23
18	Adenosine Diphosphate Improves Wound Healing in Diabetic Mice Through P2Y12 Receptor Activation. Frontiers in Immunology, 2021, 12, 651740.	2.2	22

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19	The Wnt signaling pathway regulates Nalm-16 b-cell precursor acute lymphoblastic leukemic cell line survival and etoposide resistance. <i>Biomedicine and Pharmacotherapy</i> , 2010, 64, 63-72.	2.5	21
20	Costimulatory action of glycoinositolphospholipids from <i>Trypanosoma cruzi</i> increased interleukin 2 secretion and induction of nuclear translocation of the nuclear factor of activated T cells 1. <i>FASEB Journal</i> , 1999, 13, 1627-1636.	0.2	18
21	Structural Analysis of Alterations in Zebrafish Muscle Differentiation Induced by Simvastatin and Their Recovery with Cholesterol. <i>Journal of Histochemistry and Cytochemistry</i> , 2015, 63, 427-437.	1.3	18
22	Changes in cell shape, cytoskeletal proteins and adhesion sites of cultured cells after extracellular Ca ²⁺ chelation. <i>Brazilian Journal of Medical and Biological Research</i> , 2003, 36, 1111-1116.	0.7	17
23	Cholesterol depletion induces transcriptional changes during skeletal muscle differentiation. <i>BMC Genomics</i> , 2014, 15, 544.	1.2	17
24	Reduced mitochondrial respiration and increased calcium deposits in the EDL muscle, but not in soleus, from 12-week-old dystrophic mdx mice. <i>Scientific Reports</i> , 2019, 9, 1986.	1.6	17
25	Traffic of Secondary Metabolites to Cell Surface in the Red Alga <i>Laurencia dendroidea</i> Depends on a Two-Step Transport by the Cytoskeleton. <i>PLoS ONE</i> , 2013, 8, e63929.	1.1	17
26	Cell adhesion in zebrafish myogenesis: Distribution of intermediate filaments, microfilaments, intracellular adhesion structures and extracellular matrix. <i>Cytoskeleton</i> , 2008, 65, 801-815.	4.4	16
27	Increase in fatty acids and flotillins upon resveratrol treatment of human breast cancer cells. <i>Scientific Reports</i> , 2019, 9, 13960.	1.6	16
28	Distinctive Effects of Cytochalasin B in Chick Primary Myoblasts and Fibroblasts. <i>PLoS ONE</i> , 2016, 11, e0154109.	1.1	16
29	Desmin filaments are stably associated with the outer nuclear surface in chick myoblasts. <i>Cell and Tissue Research</i> , 2006, 323, 351-357.	1.5	15
30	A soluble and active form of Wnt3a protein is involved in myogenic differentiation after cholesterol depletion. <i>FEBS Letters</i> , 2007, 581, 5787-5795.	1.3	14
31	Glutamine and Alanyl-Glutamine Increase RhoA Expression and Reduce <i>Clostridium difficile</i> Toxin-A-Induced Intestinal Epithelial Cell Damage. <i>BioMed Research International</i> , 2013, 2013, 1-13.	0.9	14
32	Balance between S-nitrosylation and denitrosylation modulates myoblast proliferation independently of soluble guanylyl cyclase activation. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C11-C26.	2.1	14
33	The Role of Embryonic Chick Muscle Cell Culture in the Study of Skeletal Myogenesis. <i>Frontiers in Physiology</i> , 2021, 12, 668600.	1.3	14
34	Tissue factor mediates microvesicles shedding from MDA-MB-231 breast cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 502, 137-144.	1.0	13
35	Membrane Cholesterol Depletion by Methyl-β-Cyclodextrin Enhances the Expression of Cardiac Differentiation Markers. <i>Cells Tissues Organs</i> , 2010, 192, 187-199.	1.3	12
36	Knockdown of Lmo7 inhibits chick myogenesis. <i>FEBS Letters</i> , 2016, 590, 317-329.	1.3	12

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37	The cytoskeleton of the electric tissue of <i>Electrophorus electricus</i> , L.. <i>Anais Da Academia Brasileira De Ciencias</i> , 2000, 72, 341-351.	0.3	11
38	Association between the muscle-specific proteins desmin and caveolin-3 in muscle cells. <i>Cell and Tissue Research</i> , 2006, 327, 343-351.	1.5	11
39	Î±-Cyclodextrin enhances myoblast fusion and muscle differentiation by the release of IL-4. <i>Cytokine</i> , 2011, 55, 280-287.	1.4	11
40	A conserved role for calpains during myoblast fusion. <i>Genesis</i> , 2015, 53, 417-430.	0.8	11
41	Lipid Rafts from Olfactory Ensheathing Cells: Molecular Composition and Possible Roles. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 525-536.	1.7	11
42	Differences in the Expression and Distribution of Flotillin-2 in Chick, Mice and Human Muscle Cells. <i>PLoS ONE</i> , 2014, 9, e103990.	1.1	11
43	The perinuclear region concentrates disordered proteins with predicted phase separation distributed in a 3D network of cytoskeletal filaments and organelles. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2022, 1869, 119161.	1.9	11
44	Cellular migration, transition and interaction during regeneration of the sponge <i>Hymeniacidon heliophila</i> . <i>PLoS ONE</i> , 2017, 12, e0178350.	1.1	10
45	Distribution of F-actin, Î±-actinin, tropomyosin, tubulin and organelles in <i>Euglena gracilis</i> by immunofluorescence microscopy. <i>Tissue and Cell</i> , 1998, 30, 545-553.	1.0	9
46	Synthesis and pharmacological evaluation of novel isoquinoline N-sulphonylhydrazones designed as ROCK inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 1181-1193.	2.5	9
47	Distinct histomorphology for growth arrest and digitate outgrowth in cultivated <i>Haliclona</i> sp. (Porifera: Demospongiae). <i>Journal of Morphology</i> , 2017, 278, 1682-1688.	0.6	8
48	Changes in cell shape and desmin intermediate filament distribution are associated with down-regulation of desmin expression in C2C12 myoblasts grown in the absence of extracellular Ca ²⁺ . <i>Brazilian Journal of Medical and Biological Research</i> , 2005, 38, 1025-1032.	0.7	7
49	PS1- ³ -Secretase-Mediated Cadherin Cleavage Induces ² -Catenin Nuclear Translocation and Osteogenic Differentiation of Human Bone Marrow Stromal Cells. <i>Stem Cells International</i> , 2016, 2016, 1-14.	1.2	7
50	Sonic Hedgehog signaling and Gli-1 during embryonic chick myogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2018, 507, 496-502.	1.0	7
51	A role for gangliosides and Î± ₂ Î± ₁ integrin in the motility of olfactory ensheathing glia. <i>Journal of Anatomy</i> , 2019, 235, 977-983.	0.9	7
52	Resveratrol Modifies Lipid Composition of Two Cancer Cell Lines. <i>BioMed Research International</i> , 2020, 2020, 1-10.	0.9	7
53	A comparative study on the use of microscopy in pharmacology and cell biology research. <i>PLoS ONE</i> , 2021, 16, e0245795.	1.1	7
54	Distribution of cytoskeletal and adhesion proteins in adult zebrafish skeletal muscle. <i>Histology and Histopathology</i> , 2009, 24, 187-96.	0.5	7

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55	Mast cells can revert dexamethasone-mediated down-regulation of stem cell factor. <i>European Journal of Pharmacology</i> , 2001, 414, 105-112.	1.7	6
56	Culture of neural cells of the eyestalk of a mangrove crab is optimized on poly-l-ornithine substrate. <i>Cytotechnology</i> , 2016, 68, 2193-2206.	0.7	6
57	Secretase Inhibition Induces Muscle Hypertrophy in a Notch-Independent Mechanism. <i>Proteomics</i> , 2018, 18, 1700423.	1.3	6
58	Acidic Compartment Size, Positioning, and Function during Myogenesis and Their Modulation by the Wnt/Beta-Catenin Pathway. <i>BioMed Research International</i> , 2020, 2020, 1-13.	0.9	6
59	Comparative study of calcium and calcium-related enzymes with differentiation markers in different ages and muscle types in mdx mice. <i>Histology and Histopathology</i> , 2020, 35, 203-216.	0.5	6
60	Desmin filaments in the electrocytes of the electric organ of the electric eel <i>Electrophorus electricus</i> . <i>Cell and Tissue Research</i> , 1996, 285, 387-393.	1.5	5
61	The follicular thyroid cell line PCCL3 responds differently to laminin and to poly(laminin, a polymer of laminin assembled in acidic pH. <i>Molecular and Cellular Endocrinology</i> , 2013, 376, 12-22.	1.6	5
62	Analysis of undergraduate cell biology contents in Brazilian public universities. <i>Cell Biology International</i> , 2017, 41, 361-368.	1.4	5
63	Dact1 is expressed during chicken and mouse skeletal myogenesis and modulated in human muscle diseases. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2021, 256, 110645.	0.7	5
64	The Role of Na ⁺ /K ⁺ -ATPase during Chick Skeletal Myogenesis. <i>PLoS ONE</i> , 2015, 10, e0120940.	1.1	5
65	Differences in the isodesmin pattern between the electric organs of <i>Electrophorus electricus</i> L.. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 119, 715-719.	0.7	4
66	Involvement of lipid microdomains in human endothelial cells infected by <i>Streptococcus agalactiae</i> type III belonging to the hypervirulent ST-17. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2020, 115, e190398.	0.8	4
67	Desmin and Actin Filaments in Membrane-Cytoskeletal Preparations of the Electric Tissue of <i>Electrophorus electricus</i> , L.. <i>Archives of Histology and Cytology</i> , 1997, 60, 445-452.	0.2	3
68	Expression of muscle-specific myosin heavy chain and myosin light chain 1 in the electric tissue of <i>Electrophorus electricus</i> (L.) in comparison with other vertebrate species. <i>The Journal of Experimental Zoology</i> , 2001, 290, 227-233.	1.4	3
69	Isoproterenol induces an increase in muscle fiber size by the proliferation of Pax7-positive cells and in a mTOR-independent mechanism. <i>Cell Biology International</i> , 2019, 43, 1425-1434.	1.4	3
70	Distinct interactions between epithelial and mesenchymal cells control cell morphology and collective migration during sponge epithelial to mesenchymal transition. <i>Journal of Morphology</i> , 2020, 281, 183-195.	0.6	3
71	The scaffolding protein calpain-3 has multiple distributions in embryonic chick muscle cells and it is essential for the formation of muscle fibers. <i>Tissue and Cell</i> , 2020, 67, 101436.	1.0	3
72	Activation of YAP regulates muscle fiber size in a PKC-dependent mechanism during chick in vitro myogenesis. <i>Journal of Muscle Research and Cell Motility</i> , 2022, 43, 73-86.	0.9	3

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73	Do medicine and cell biology talk to each other? A study of vocabulary similarities between fields. Brazilian Journal of Medical and Biological Research, 2021, 54, e11728.	0.7	3
74	New Findings on LMO7 Transcripts, Proteins and Regulatory Regions in Human and Vertebrate Model Organisms and the Intracellular Distribution in Skeletal Muscle Cells. International Journal of Molecular Sciences, 2021, 22, 12885.	1.8	2
75	What does desmin do: A bibliometric assessment of the functions of the muscle intermediate filament. Experimental Biology and Medicine, 2022, 247, 538-550.	1.1	2
76	Simvastatin and Muscle: Zebrafish and Chicken Show that the Benefits are not Worth the Damage. Frontiers in Cell and Developmental Biology, 2022, 10, 778901.	1.8	2
77	Biological response in vitro of skeletal muscle cells treated with different intensity continuous and pulsed ultrasound fields. Journal of Physics: Conference Series, 2011, 279, 012022.	0.3	1
78	Persistent mdx diaphragm alterations are accompanied by increased expression and activity of calcium and muscle-specific proteins. Histology and Histopathology, 2021, 36, 775-783.	0.5	1
79	Volumetric quantification of the gastric emptying: computer-based method for generation of volumetric index from fluoroscopic images. Computer Methods and Programs in Biomedicine, 2001, 65, 153-161.	2.6	0
80	New Rock Inhibitors Action Analysis in the Cytoskeleton and Cell Migration of Tumor Cell Line MDA-MB 231. FASEB Journal, 2018, 32, 836.7.	0.2	0