

BÃ©nÃ©dicte Chazaud

List of Publications by Year in descending order

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86
papers

8,598
citations

66343

42
h-index

49909

87
g-index

94
all docs

94
docs citations

94
times ranked

9672
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammatory monocytes recruited after skeletal muscle injury switch into antiinflammatory macrophages to support myogenesis. <i>Journal of Experimental Medicine</i> , 2007, 204, 1057-1069.	8.5	1,669
2	Muscle Satellite Cells and Endothelial Cells: Close Neighbors and Privileged Partners. <i>Molecular Biology of the Cell</i> , 2007, 18, 1397-1409.	2.1	575
3	AMPK \pm 1 Regulates Macrophage Skewing at the Time of Resolution of Inflammation during Skeletal Muscle Regeneration. <i>Cell Metabolism</i> , 2013, 18, 251-264.	16.2	375
4	Satellite cells attract monocytes and use macrophages as a support to escape apoptosis and enhance muscle growth. <i>Journal of Cell Biology</i> , 2003, 163, 1133-1143.	5.2	363
5	Differentially Activated Macrophages Orchestrate Myogenic Precursor Cell Fate During Human Skeletal Muscle Regeneration. <i>Stem Cells</i> , 2013, 31, 384-396.	3.2	343
6	Macrophages: Supportive cells for tissue repair and regeneration. <i>Immunobiology</i> , 2014, 219, 172-178.	1.9	246
7	Zidovudine-induced mitochondrial disorder with massive liver steatosis, myopathy, lactic acidosis, and mitochondrial DNA depletion. <i>Journal of Hepatology</i> , 1999, 30, 156-160.	3.7	237
8	Muscle Satellite Cell Cross-Talk with a Vascular Niche Maintains Quiescence via VEGF and Notch Signaling. <i>Cell Stem Cell</i> , 2018, 23, 530-543.e9.	11.1	223
9	Monocyte/macrophage interactions with myogenic precursor cells during skeletal muscle regeneration. <i>FEBS Journal</i> , 2013, 280, 4118-4130.	4.7	200
10	Inflammation and Skeletal Muscle Regeneration: Leave It to the Macrophages!. <i>Trends in Immunology</i> , 2020, 41, 481-492.	6.8	198
11	Autocrine and Paracrine Angiopoietin 1/Tie-2 Signaling Promotes Muscle Satellite Cell Self-Renewal. <i>Cell Stem Cell</i> , 2009, 5, 298-309.	11.1	197
12	Dual and Beneficial Roles of Macrophages During Skeletal Muscle Regeneration. <i>Exercise and Sport Sciences Reviews</i> , 2009, 37, 18-22.	3.0	195
13	Aging Disrupts Muscle Stem Cell Function by Impairing Matricellular WISP1 Secretion from Fibro-Adipogenic Progenitors. <i>Cell Stem Cell</i> , 2019, 24, 433-446.e7.	11.1	191
14	Coupling between Myogenesis and Angiogenesis during Skeletal Muscle Regeneration Is Stimulated by Restorative Macrophages. <i>Stem Cell Reports</i> , 2017, 9, 2018-2033.	4.8	171
15	Palmitoleate Reverses High Fat-induced Proinflammatory Macrophage Polarization via AMP-activated Protein Kinase (AMPK). <i>Journal of Biological Chemistry</i> , 2015, 290, 16979-16988.	3.4	149
16	Highly Dynamic Transcriptional Signature of Distinct Macrophage Subsets during Sterile Inflammation, Resolution, and Tissue Repair. <i>Journal of Immunology</i> , 2016, 196, 4771-4782.	0.8	147
17	Human macrophages rescue myoblasts and myotubes from apoptosis through a set of adhesion molecular systems. <i>Journal of Cell Science</i> , 2006, 119, 2497-2507.	2.0	137
18	AMPK Activation Regulates LTBP4-Dependent TGF- β 1 Secretion by Pro-inflammatory Macrophages and Controls Fibrosis in Duchenne Muscular Dystrophy. <i>Cell Reports</i> , 2018, 25, 2163-2176.e6.	6.4	137

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19	Inflammation during skeletal muscle regeneration and tissue remodeling: application to exercise-induced muscle damage management. <i>Immunology and Cell Biology</i> , 2016, 94, 140-145.	2.3	136
20	Macrophage PPAR β , a Lipid Activated Transcription Factor Controls the Growth Factor GDF3 and Skeletal Muscle Regeneration. <i>Immunity</i> , 2016, 45, 1038-1051.	14.3	134
21	High mobility group box 1 orchestrates tissue regeneration via CXCR4. <i>Journal of Experimental Medicine</i> , 2018, 215, 303-318.	8.5	131
22	Adult Bone Marrow-Derived Stem Cells in Muscle Connective Tissue and Satellite Cell Niches. <i>American Journal of Pathology</i> , 2004, 164, 773-779.	3.8	124
23	Redox Control of Skeletal Muscle Regeneration. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 276-310.	5.4	124
24	Proinflammatory Macrophages Enhance the Regenerative Capacity of Human Myoblasts by Modifying Their Kinetics of Proliferation and Differentiation. <i>Molecular Therapy</i> , 2012, 20, 2168-2179.	8.2	120
25	Annexin A1 drives macrophage skewing to accelerate muscle regeneration through AMPK activation. <i>Journal of Clinical Investigation</i> , 2020, 130, 1156-1167.	8.2	112
26	Promigratory Effect of Plasminogen Activator Inhibitor-1 on Invasive Breast Cancer Cell Populations. <i>American Journal of Pathology</i> , 2002, 160, 237-246.	3.8	97
27	AMPK/LDH pathway regulates muscle stem cell self-renewal by controlling metabolic homeostasis. <i>EMBO Journal</i> , 2017, 36, 1946-1962.	7.8	95
28	Regulation of myogenic stem cell behaviour by vessel cells: The "mÃ©nage Ã trois" of satellite cells, periendothelial cells and endothelial cells. <i>Cell Cycle</i> , 2010, 9, 892-896.	2.6	90
29	Magnetic resonance imaging of targeted catheter-based implantation of myogenic precursor cells into infarcted left ventricular myocardium. <i>Journal of the American College of Cardiology</i> , 2003, 41, 1841-1846.	2.8	89
30	ADAM12 and β 1 Integrin Are Instrumental in Human Myogenic Cell Differentiation. <i>Molecular Biology of the Cell</i> , 2005, 16, 861-870.	2.1	88
31	Skeletal Muscle Microvasculature: A Highly Dynamic Lifeline. <i>Physiology</i> , 2015, 30, 417-427.	3.1	83
32	Metabolic regulation of macrophages during tissue repair: insights from skeletal muscle regeneration. <i>FEBS Letters</i> , 2017, 591, 3007-3021.	2.8	82
33	Tissue LyC6 $^+$ Macrophages Are Generated in the Absence of Circulating LyC6 $^+$ Monocytes and Nur77 in a Model of Muscle Regeneration. <i>Journal of Immunology</i> , 2013, 191, 5695-5701.	0.8	80
34	Human skeletal muscle fibroblasts stimulate <i>in vitro</i> myogenesis and <i>in vivo</i> muscle regeneration. <i>Journal of Physiology</i> , 2017, 595, 5115-5127.	2.9	79
35	Glucocorticoids Shape Macrophage Phenotype for Tissue Repair. <i>Frontiers in Immunology</i> , 2019, 10, 1591.	4.8	73
36	Monocyte chemoattractant protein 1 and chemokine receptor CCR2 productions in Guillain-BarrÃ© syndrome and experimental autoimmune neuritis. <i>Journal of Neuroimmunology</i> , 2003, 134, 118-127.	2.3	64

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37	Modulation of Macrophage Activation State Protects Tissue from Necrosis during Critical Limb Ischemia in Thrombospondin-1-Deficient Mice. <i>PLoS ONE</i> , 2008, 3, e3950.	2.5	64
38	Blood Vessels and the Satellite Cell Niche. <i>Current Topics in Developmental Biology</i> , 2011, 96, 121-138.	2.2	63
39	CX3CR1 deficiency promotes muscle repair and regeneration by enhancing macrophage ApoE production. <i>Nature Communications</i> , 2015, 6, 8972.	12.8	54
40	Macrophages Improve Survival, Proliferation and Migration of Engrafted Myogenic Precursor Cells into MDX Skeletal Muscle. <i>PLoS ONE</i> , 2012, 7, e46698.	2.5	52
41	Open-CSAM, a new tool for semi-automated analysis of myofiber cross-sectional area in regenerating adult skeletal muscle. <i>Skeletal Muscle</i> , 2019, 9, 2.	4.2	51
42	Involvement of the [uPAR:uPA:PAI-1:LRP] Complex in Human Myogenic Cell Motility. <i>Experimental Cell Research</i> , 2000, 258, 237-244.	2.6	45
43	Interleukin-1 expression in inflammatory myopathies: evidence of marked immunoreactivity in sarcoid granulomas and muscle fibres showing ischaemic and regenerative changes. <i>Neuropathology and Applied Neurobiology</i> , 1997, 23, 132-140.	3.2	41
44	Endoventricular porcine autologous myoblast transplantation can be successfully achieved with minor mechanical cell damage. <i>Cardiovascular Research</i> , 2003, 58, 444-450.	3.8	38
45	Myogenic Progenitor Cells Exhibit Type I Interferon-Driven Proangiogenic Properties and Molecular Signature During Juvenile Dermatomyositis. <i>Arthritis and Rheumatology</i> , 2018, 70, 134-145.	5.6	38
46	A new model of experimental fibrosis in hindlimb skeletal muscle of adult mdx mouse mimicking muscular dystrophy. <i>Muscle and Nerve</i> , 2012, 45, 803-814.	2.2	37
47	Structural and Functional Alterations of Skeletal Muscle Microvasculature in Dystrophin-Deficient mdx Mice. <i>American Journal of Pathology</i> , 2015, 185, 2482-2494.	3.8	36
48	Inflammation during post-injury skeletal muscle regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2021, 119, 32-38.	5.0	34
49	In Vivo Fusion of Circulating Fluorescent Cells with Dystrophin-Deficient Myofibers Results in Extensive Sarcoplasmic Fluorescence Expression but Limited Dystrophin Sarcolemmal Expression. <i>American Journal of Pathology</i> , 2005, 166, 1741-1748.	3.8	33
50	Role of Thrombospondin 1 in Macrophage Inflammation in Dysferlin Myopathy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010, 69, 643-653.	1.7	33
51	Interferon-signature in idiopathic inflammatory myopathies. <i>Current Opinion in Rheumatology</i> , 2019, 31, 634-642.	4.3	31
52	Differential expression of the IL-1 system components during in vitro myogenesis: Implication of IL-1 β in induction of myogenic cell apoptosis. <i>Cell Death and Differentiation</i> , 1999, 6, 1012-1021.	11.2	28
53	Inflamm-aging: STAT3 Signaling Pushes Muscle Stem Cells off Balance. <i>Cell Stem Cell</i> , 2014, 15, 401-402.	11.1	22
54	Myeloid HIFs Are Dispensable for Resolution of Inflammation during Skeletal Muscle Regeneration. <i>Journal of Immunology</i> , 2015, 194, 3389-3399.	0.8	21

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55	Vasculopathy-related clinical and pathological features are associated with severe juvenile dermatomyositis. <i>Rheumatology</i> , 2016, 55, kev359.	1.9	21
56	Negative elongation factor regulates muscle progenitor expansion for efficient myofiber repair and stem cell pool repopulation. <i>Developmental Cell</i> , 2021, 56, 1014-1029.e7.	7.0	18
57	Glucocorticoids coordinate macrophage metabolism through the regulation of the tricarboxylic acid cycle. <i>Molecular Metabolism</i> , 2022, 57, 101424.	6.5	18
58	Nanomedicine for Gene Delivery and Drug Repurposing in the Treatment of Muscular Dystrophies. <i>Pharmaceutics</i> , 2021, 13, 278.	4.5	17
59	The dominant-negative mitochondrial calcium uniporter subunit MCUb drives macrophage polarization during skeletal muscle regeneration. <i>Science Signaling</i> , 2021, 14, eabf3838.	3.6	17
60	In vitro evaluation of human muscle satellite cell migration prior to fusion into myotubes. <i>Journal of Muscle Research and Cell Motility</i> , 1998, 19, 931-936.	2.0	16
61	Macrophage-derived superoxide production and antioxidant response following skeletal muscle injury. <i>Free Radical Biology and Medicine</i> , 2018, 120, 33-40.	2.9	16
62	Interplay between myofibers and pro-inflammatory macrophages controls muscle damage in mdx mice. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	16
63	Interleukin-1 expression in normal motor endplates and muscle fibers showing neurogenic changes. <i>Acta Neuropathologica</i> , 1997, 94, 272-279.	7.7	15
64	Cell sorting of various cell types from mouse and human skeletal muscle. <i>Methods</i> , 2018, 134-135, 50-55.	3.8	15
65	Efferocytosis during Skeletal Muscle Regeneration. <i>Cells</i> , 2021, 10, 3267.	4.1	15
66	Inhibition of the adhesion step of leukodiapedesis: a critical event in the recovery of Guillain-Barré syndrome associated with accumulation of proteolytically active lymphocytes in blood. <i>Journal of Neuroimmunology</i> , 2001, 114, 188-196.	2.3	14
67	Derivation and Characterization of Immortalized Human Muscle Satellite Cell Clones from Muscular Dystrophy Patients and Healthy Individuals. <i>Cells</i> , 2020, 9, 1780.	4.1	13
68	Involvement of Type I Interferon Signaling in Muscle Stem Cell Proliferation During Dermatomyositis. <i>Neurology</i> , 2022, 98, .	1.1	13
69	Ricin Toxicity and Intracellular Routing in Tumoral HT-29 Cells. <i>Experimental Cell Research</i> , 1995, 221, 214-220.	2.6	12
70	Human and Murine Skeletal Muscle Reserve Cells. <i>Methods in Molecular Biology</i> , 2013, 1035, 165-177.	0.9	10
71	Dual effect of HGF on satellite/myogenic cell quiescence. Focus on High concentrations of HGF inhibit skeletal muscle satellite cell proliferation in vitro by inducing expression of myostatin: a possible mechanism for reestablishing satellite cell quiescence in vivo. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C448-C449.	4.6	7
72	Effects of Macrophage Conditioned-Medium on Murine and Human Muscle Cells: Analysis of Proliferation, Differentiation, and Fusion. <i>Methods in Molecular Biology</i> , 2017, 1556, 317-327.	0.9	7

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73	Heparan Sulfate Mimetics Accelerate Postinjury Skeletal Muscle Regeneration. <i>Tissue Engineering - Part A</i> , 2019, 25, 1667-1676.	3.1	7
74	Recombinant HVRNASET2 protein induces marked connective tissue remodelling in the invertebrate model <i>Hirudo verbana</i> . <i>Cell and Tissue Research</i> , 2020, 380, 565-579.	2.9	6
75	Benefits and pathologies associated with the inflammatory response. <i>Experimental Cell Research</i> , 2021, 409, 112905.	2.6	6
76	A macrophage-derived adipokine supports skeletal muscle regeneration. <i>Nature Metabolism</i> , 2020, 2, 213-214.	11.9	5
77	Notch Stimulates Both Self-Renewal and Lineage Plasticity in a Subset of Murine CD9High Committed Megakaryocytic Progenitors. <i>PLoS ONE</i> , 2016, 11, e0153860.	2.5	5
78	Organization of the endoplasmic reticulum-Golgi system is related to the state of enterocytic differentiation of human HT-29 cells. <i>Differentiation</i> , 1996, 60, 179-191.	1.9	4
79	Investigating the Vascular Niche: Three-Dimensional Co-culture of Human Skeletal Muscle Stem Cells and Endothelial Cells. <i>Methods in Molecular Biology</i> , 2018, 2002, 121-128.	0.9	4
80	Diabetes-induced skeletal muscle fibrosis: Fibro-adipogenic precursors at work. <i>Cell Metabolism</i> , 2021, 33, 2095-2096.	16.2	4
81	Ricin Toxicity and Intracellular Routing in Tumoral HT-29 Cells. <i>Experimental Cell Research</i> , 1995, 221, 205-213.	2.6	3
82	Quality Control of Coated Antibodies: New, Rapid Determination of Binding Affinity. <i>Clinical Chemistry and Laboratory Medicine</i> , 2000, 38, 239-43.	2.3	3
83	Histological Analysis of Tibialis Anterior Muscle of DMDmdx4Cv Mice from 1 to 24 Months. <i>Journal of Neuromuscular Diseases</i> , 2021, 8, 513-524.	2.6	3
84	Inflammatory monocytes recruited after skeletal muscle injury switch into antiinflammatory macrophages to support myogenesis. <i>Journal of Cell Biology</i> , 2007, 177, i7-i7.	5.2	1
85	Atypical microtubule organization in undifferentiated human colon cancer cells. <i>Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie</i> , 1998, 321, 11-18.	0.8	0
86	Macrophage AMPK \pm 1 is necessary for the resolution of inflammation during skeletal muscle regeneration. <i>FASEB Journal</i> , 2012, 26, 1078.5.	0.5	0