Irina M Conboy

List of Publications by Year
in descending order

68 papers	9,639 citations	126907 33 h-index	102487 66 g-index
108 all docs	108 docs citations	108 times ranked	10225 citing authors

#	Article	IF	Citations
1	Mechanisms and Minimization of False Discovery of Metabolic Bioorthogonal Noncanonical Amino Acid Proteomics. Rejuvenation Research, 2022, 25, 95-109.	1.8	2
2	Autologous treatment for ALS with implication for broad neuroprotection. Translational Neurodegeneration, 2022, 11, 16.	8.0	1
3	Plasma dilution improves cognition and attenuates neuroinflammation in old mice. GeroScience, 2021, 43, 1-18.	4.6	46
4	The Microfluidic Toolbox for Analyzing Exosome Biomarkers of Aging. Molecules, 2021, 26, 535.	3.8	12
5	K-means quantization for a web-based open-source flow cytometry analysis platform. Scientific Reports, 2021, 11, 6735.	3.3	3
6	TMPRSS11a is a novel ageâ€altered, tissue specific regulator of migration and wound healing. FASEB Journal, 2021, 35, e21597.	0.5	7
7	Rapid and Electronic Identification and Quantification of Ageâ€Specific Circulating Exosomes via Biologically Activated Graphene Transistors. Advanced Biology, 2021, 5, e2000594.	2.5	12
8	Discrimination of single-point mutations in unamplified genomic DNA via Cas9 immobilized on a graphene field-effect transistor. Nature Biomedical Engineering, 2021, 5, 713-725.	22.5	77
9	Attenuation of age-elevated blood factors by repositioning plasmapheresis: A novel perspective and approach. Transfusion and Apheresis Science, 2021, 60, 103162.	1.0	5
10	Erythrocytes, a New Contributor to Ageâ€Associated Loss of Bloodâ€"Brain Barrier Integrity. Advanced Science, 2021, 8, 2101912.	11.2	8
11	Case Report: Therapeutic and immunomodulatory effects of plasmapheresis in long-haul COVID. F1000Research, 2021, 10, 1189.	1.6	3
12	Immunomodulation for the management of corona virus disease (COVID-19). Transfusion and Apheresis Science, 2020, 59, 102856.	1.0	2
13	Skeletal muscle as an experimental model of choice to study tissue aging and rejuvenation. Skeletal Muscle, 2020, 10, 4.	4.2	32
14	Rejuvenation of three germ layers tissues by exchanging old blood plasma with saline-albumin. Aging, 2020, 12, 8790-8819.	3.1	59
15	Rejuvenation of brain, liver and muscle by simultaneous pharmacological modulation of two signaling determinants, that change in opposite directions with age. Aging, 2019, 11, 5628-5645.	3.1	24
16	Detection of unamplified target genes via CRISPRâ€"Cas9 immobilized on a graphene field-effect transistor. Nature Biomedical Engineering, 2019, 3, 427-437.	22.5	418
17	Key Age-Imposed Signaling Changes That Are Responsible for the Decline of Stem Cell Function. Sub-Cellular Biochemistry, 2018, 90, 119-143.	2.4	6
18	Graphene-based biosensor for on-chip detection of bio-orthogonally labeled proteins to identify the circulating biomarkers of aging during heterochronic parabiosis. Lab on A Chip, 2018, 18, 3230-3238.	6.0	20

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19	Making gene editing a therapeutic reality. F1000Research, 2018, 7, 1970.	1.6	15
20	An oral microjet vaccination system elicits antibody production in rabbits. Science Translational Medicine, 2017, 9, .	12.4	44
21	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA in vivo induces homology-directed DNA repair. Nature Biomedical Engineering, 2017, 1, 889-901.	22.5	566
22	Application of bio-orthogonal proteome labeling to cell transplantation and heterochronic parabiosis. Nature Communications, 2017, 8, 643.	12.8	34
23	Unexpected evolutionarily conserved rapid effects of viral infection on oxytocin receptor and TGF-Î²/pSmad3. Skeletal Muscle, 2017, 7, 7.	4.2	14
24	A single heterochronic blood exchange reveals rapid inhibition of multiple tissues by old blood. Nature Communications, 2016, 7, 13363.	12.8	204
25	Age-Specific Functional Epigenetic Changes in p21 and p16 in Injury-Activated Satellite Cells. Stem Cells, 2015, 33, 951-961.	3.2	40
26	Age-Associated Increase in BMP Signaling Inhibits Hippocampal Neurogenesis. Stem Cells, 2015, 33, 1577-1588.	3.2	83
27	Systemic Problems: A perspective on stem cell aging and rejuvenation. Aging, 2015, 7, 754-765.	3.1	57
28	Systemic attenuation of the TGF-Î² pathway by a single drug simultaneously rejuvenates hippocampal neurogenesis and myogenesis in the same old mammal. Oncotarget, 2015, 6, 11959-11978.	1.8	101
29	Oxytocin is an age-specific circulating hormone that is necessary for muscle maintenance and regeneration. Nature Communications, 2014, 5, 4082.	12.8	307
30	Mechanisms of action of hESC-secreted proteins that enhance human and mouse myogenesis. Aging, 2014, 6, 602-620.	3.1	13
31	Heterochronic parabiosis: historical perspective and methodological considerations for studies of aging and longevity. Aging Cell, 2013, 12, 525-530.	6.7	198
32	Pharmacological inhibition of myostatin/TGF-Î² receptor/pSmad3 signaling rescues muscle regenerative responses in mouse model of type 1 diabetes. Acta Pharmacologica Sinica, 2013, 34, 1052-1060.	6.1	45
33	Sorting single satellite cells from individual myofibers reveals heterogeneity in cell-surface markers and myogenic capacity. Integrative Biology (United Kingdom), 2013, 5, 692-702.	1.3	25
34	DNA methyltransferase-3â€"dependent nonrandom template segregation in differentiating embryonic stem cells. Journal of Cell Biology, 2013, 203, 73-85.	5.2	17
35	Regenerative Capacity of Old Muscle Stem Cells Declines without Significant Accumulation of DNA Damage. PLoS ONE, 2013, 8, e63528.	2.5	35
36	hESC-secreted proteins can be enriched for multiple regenerative therapies by heparin-binding. Aging, 2013, 5, 357-372.	3.1	13

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37	SnoN activates p53 directly to regulate aging and tumorigenesis. Aging Cell, 2012, 11, 902-911.	6.7	17
38	Using Label-Free Screening to Investigate Stem-Cells from their Microanatomical Niche. Biophysical Journal, 2012, 102, 726a.	0.5	0
39	Heterochronic parabiosis for the study of the effects of aging on stem cells and their niches. Cell Cycle, 2012, 11, 2260-2267.	2.6	198
40	Age dependent increase in the levels of osteopontin inhibits skeletal muscle regeneration. Aging, 2012, 4, 553-566.	3.1	67
41	Phosphatidylserine directly and positively regulates fusion of myoblasts into myotubes. Biochemical and Biophysical Research Communications, 2011, 414, 9-13.	2.1	62
42	Embryonic anti-aging niche. Aging, 2011, 3, 555-563.	3.1	35
43	Inhibitors of Tyrosine Phosphatases and Apoptosis Reprogram Lineage-Marked Differentiated Muscle to Myogenic Progenitor Cells. Chemistry and Biology, 2011, 18, 1153-1166.	6.0	19
44	Biomaterial Applications in the Adult Skeletal Muscle Satellite Cell Niche: Deliberate Control of Muscle Stem Cells and Muscle Regeneration in the Aged Niche. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2010, , 275-308.	1.0	1
45	Embryonic vs. Adult Myogenesis: Challenging the 'Regeneration Recapitulates Development' Paradigm. Journal of Molecular Cell Biology, 2010, 2, 1-4.	3.3	25
46	Immuno-Analysis and FACS Sorting of Adult Muscle Fiber-Associated Stem/Precursor Cells. Methods in Molecular Biology, 2010, 621, 165-173.	0.9	41
47	Preparation of Adult Muscle Fiber-Associated Stem/Precursor Cells. Methods in Molecular Biology, 2010, 621, 149-163.	0.9	24
48	Calibrating Notch/TGF-Î² Signaling for Youthful, Healthy Tissue Maintenance and Repair. , 2010, , 439-449.		0
49	Molecular aging and rejuvenation of human muscle stem cells. EMBO Molecular Medicine, 2009, 1, 381-391.	6.9	204
50	Differentiation rather than aging of muscle stem cells abolishes their telomerase activity. Biotechnology Progress, 2009, 25, 1130-1137.	2.6	49
51	Relative roles of TGFâ€Î²1 and Wnt in the systemic regulation and aging of satellite cell responses. Aging Cell, 2009, 8, 676-689.	6.7	206
52	Imbalance between pSmad3 and Notch induces CDK inhibitors in old muscle stem cells. Nature, 2008, 454, 528-532.	27.8	432
53	Aging of signal transduction pathways, and pathology. Experimental Cell Research, 2008, 314, 1951-1961.	2.6	72
54	A Temporal Switch from Notch to Wnt Signaling in Muscle Stem Cells Is Necessary for Normal Adult Myogenesis. Cell Stem Cell, 2008, 2, 50-59.	11.1	546

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55	Regulating the Notch pathway in embryonic, adult and old stem cells. Current Opinion in Pharmacology, 2007, 7, 303-309.	3.5	51
56	Notch signaling pathway and tissue engineering. Frontiers in Bioscience - Landmark, 2007, 12, 5143.	3.0	22
57	Loss of stem cell regenerative capacity within aged niches. Aging Cell, 2007, 6, 371-382.	6.7	206
58	The Regulation of Notch Signaling Controls Satellite Cell Activation and Cell Fate Determination in Postnatal Myogenesis. Developmental Cell, 2006, 10, 273.	7.0	4
59	Geometric control of myogenic cell fate. International Journal of Nanomedicine, 2006, 1, 203-212.	6.7	8
60	Rejuvenation of aged progenitor cells by exposure to a young systemic environment. Nature, 2005, 433, 760-764.	27.8	1,926
61	Aging, Stem Cells and Tissue Regeneration: Lessons from Muscle. Cell Cycle, 2005, 4, 407-410.	2.6	267
62	Cellular and Molecular Signatures of Muscle Regeneration: Current Concepts and Controversies in Adult Myogenesis. Cell, 2005, 122, 659-667.	28.9	375
63	Isolation of Adult Mouse Myogenic Progenitors. Cell, 2004, 119, 543-554.	28.9	446
64	Notch-Mediated Restoration of Regenerative Potential to Aged Muscle. Science, 2003, 302, 1575-1577.	12.6	964
65	The Regulation of Notch Signaling Controls Satellite Cell Activation and Cell Fate Determination in Postnatal Myogenesis. Developmental Cell, 2002, 3, 397-409.	7.0	779
66	Novel Genetic Regulation of â€‰T Helper 1 (Th1)/Th2 Cytokine Production and Encephalitogenicity in Inbred Mouse Strains. Journal of Experimental Medicine, 1997, 185, 439-452.	8.5	26
67	Analysis of Regulatory Elements of the Developmentally Controlled Chorions15Promoter in TransgenicDrosophila. Developmental Biology, 1996, 174, 115-124.	2.0	15
68	Case Report: Therapeutic and immunomodulatory effects of plasmapheresis in long-haul COVID. F1000Research, 0, 10, 1189.	1.6	2