

# Irina M Conboy

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

9,639  
citations

145106

33  
h-index

116156

66  
g-index

108  
all docs

108  
docs citations

108  
times ranked

11377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms and Minimization of False Discovery of Metabolic Bioorthogonal Noncanonical Amino Acid Proteomics. <i>Rejuvenation Research</i> , 2022, 25, 95-109.	0.9	2
2	Autologous treatment for ALS with implication for broad neuroprotection. <i>Translational Neurodegeneration</i> , 2022, 11, 16.	3.6	1
3	Plasma dilution improves cognition and attenuates neuroinflammation in old mice. <i>GeroScience</i> , 2021, 43, 1-18.	2.1	46
4	The Microfluidic Toolbox for Analyzing Exosome Biomarkers of Aging. <i>Molecules</i> , 2021, 26, 535.	1.7	12
5	K-means quantization for a web-based open-source flow cytometry analysis platform. <i>Scientific Reports</i> , 2021, 11, 6735.	1.6	3
6	TMPRSS11a is a novel age-altered, tissue specific regulator of migration and wound healing. <i>FASEB Journal</i> , 2021, 35, e21597.	0.2	7
7	Rapid and Electronic Identification and Quantification of Age-Specific Circulating Exosomes via Biologically Activated Graphene Transistors. <i>Advanced Biology</i> , 2021, 5, e2000594.	1.4	12
8	Discrimination of single-point mutations in unamplified genomic DNA via Cas9 immobilized on a graphene field-effect transistor. <i>Nature Biomedical Engineering</i> , 2021, 5, 713-725.	11.6	77
9	Attenuation of age-elevated blood factors by repositioning plasmapheresis: A novel perspective and approach. <i>Transfusion and Apheresis Science</i> , 2021, 60, 103162.	0.5	5
10	Erythrocytes, a New Contributor to Age-Associated Loss of Blood-Brain Barrier Integrity. <i>Advanced Science</i> , 2021, 8, 2101912.	5.6	8
11	Case Report: Therapeutic and immunomodulatory effects of plasmapheresis in long-haul COVID. <i>F1000Research</i> , 2021, 10, 1189.	0.8	3
12	Immunomodulation for the management of corona virus disease (COVID-19). <i>Transfusion and Apheresis Science</i> , 2020, 59, 102856.	0.5	2
13	Skeletal muscle as an experimental model of choice to study tissue aging and rejuvenation. <i>Skeletal Muscle</i> , 2020, 10, 4.	1.9	32
14	Rejuvenation of three germ layers tissues by exchanging old blood plasma with saline-albumin. <i>Aging</i> , 2020, 12, 8790-8819.	1.4	59
15	Rejuvenation of brain, liver and muscle by simultaneous pharmacological modulation of two signaling determinants, that change in opposite directions with age. <i>Aging</i> , 2019, 11, 5628-5645.	1.4	24
16	Detection of unamplified target genes via CRISPR-Cas9 immobilized on a graphene field-effect transistor. <i>Nature Biomedical Engineering</i> , 2019, 3, 427-437.	11.6	418
17	Key Age-Imposed Signaling Changes That Are Responsible for the Decline of Stem Cell Function. <i>Sub-Cellular Biochemistry</i> , 2018, 90, 119-143.	1.0	6
18	Graphene-based biosensor for on-chip detection of bio-orthogonally labeled proteins to identify the circulating biomarkers of aging during heterochronic parabiosis. <i>Lab on A Chip</i> , 2018, 18, 3230-3238.	3.1	20

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19	Making gene editing a therapeutic reality. <i>F1000Research</i> , 2018, 7, 1970.	0.8	15
20	An oral microjet vaccination system elicits antibody production in rabbits. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	44
21	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA in vivo induces homology-directed DNA repair. <i>Nature Biomedical Engineering</i> , 2017, 1, 889-901.	11.6	566
22	Application of bio-orthogonal proteome labeling to cell transplantation and heterochronic parabiosis. <i>Nature Communications</i> , 2017, 8, 643.	5.8	34
23	Unexpected evolutionarily conserved rapid effects of viral infection on oxytocin receptor and TGF- $\beta$ 2/pSmad3. <i>Skeletal Muscle</i> , 2017, 7, 7.	1.9	14
24	A single heterochronic blood exchange reveals rapid inhibition of multiple tissues by old blood. <i>Nature Communications</i> , 2016, 7, 13363.	5.8	204
25	Age-Specific Functional Epigenetic Changes in p21 and p16 in Injury-Activated Satellite Cells. <i>Stem Cells</i> , 2015, 33, 951-961.	1.4	40
26	Age-Associated Increase in BMP Signaling Inhibits Hippocampal Neurogenesis. <i>Stem Cells</i> , 2015, 33, 1577-1588.	1.4	83
27	Systemic Problems: A perspective on stem cell aging and rejuvenation. <i>Aging</i> , 2015, 7, 754-765.	1.4	57
28	Systemic attenuation of the TGF- $\beta$ 2 pathway by a single drug simultaneously rejuvenates hippocampal neurogenesis and myogenesis in the same old mammal. <i>Oncotarget</i> , 2015, 6, 11959-11978.	0.8	101
29	Oxytocin is an age-specific circulating hormone that is necessary for muscle maintenance and regeneration. <i>Nature Communications</i> , 2014, 5, 4082.	5.8	307
30	Mechanisms of action of hESC-secreted proteins that enhance human and mouse myogenesis. <i>Aging</i> , 2014, 6, 602-620.	1.4	13
31	Heterochronic parabiosis: historical perspective and methodological considerations for studies of aging and longevity. <i>Aging Cell</i> , 2013, 12, 525-530.	3.0	198
32	Pharmacological inhibition of myostatin/TGF- $\beta$ 2 receptor/pSmad3 signaling rescues muscle regenerative responses in mouse model of type 1 diabetes. <i>Acta Pharmacologica Sinica</i> , 2013, 34, 1052-1060.	2.8	45
33	Sorting single satellite cells from individual myofibers reveals heterogeneity in cell-surface markers and myogenic capacity. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 692-702.	0.6	25
34	DNA methyltransferase-3-dependent nonrandom template segregation in differentiating embryonic stem cells. <i>Journal of Cell Biology</i> , 2013, 203, 73-85.	2.3	17
35	Regenerative Capacity of Old Muscle Stem Cells Declines without Significant Accumulation of DNA Damage. <i>PLoS ONE</i> , 2013, 8, e63528.	1.1	35
36	hESC-secreted proteins can be enriched for multiple regenerative therapies by heparin-binding. <i>Aging</i> , 2013, 5, 357-372.	1.4	13

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37	SnoN activates p53 directly to regulate aging and tumorigenesis. <i>Aging Cell</i> , 2012, 11, 902-911.	3.0	17
38	Using Label-Free Screening to Investigate Stem-Cells from their Microanatomical Niche. <i>Biophysical Journal</i> , 2012, 102, 726a.	0.2	0
39	Heterochronic parabiosis for the study of the effects of aging on stem cells and their niches. <i>Cell Cycle</i> , 2012, 11, 2260-2267.	1.3	198
40	Age dependent increase in the levels of osteopontin inhibits skeletal muscle regeneration. <i>Aging</i> , 2012, 4, 553-566.	1.4	67
41	Phosphatidylserine directly and positively regulates fusion of myoblasts into myotubes. <i>Biochemical and Biophysical Research Communications</i> , 2011, 414, 9-13.	1.0	62
42	Embryonic anti-aging niche. <i>Aging</i> , 2011, 3, 555-563.	1.4	35
43	Inhibitors of Tyrosine Phosphatases and Apoptosis Reprogram Lineage-Marked Differentiated Muscle to Myogenic Progenitor Cells. <i>Chemistry and Biology</i> , 2011, 18, 1153-1166.	6.2	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. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2010, , 275-308.	0.7	1
45	Embryonic vs. Adult Myogenesis: Challenging the 'Regeneration Recapitulates Development' Paradigm. <i>Journal of Molecular Cell Biology</i> , 2010, 2, 1-4.	1.5	25
46	Immuno-Analysis and FACS Sorting of Adult Muscle Fiber-Associated Stem/Precursor Cells. <i>Methods in Molecular Biology</i> , 2010, 621, 165-173.	0.4	41
47	Preparation of Adult Muscle Fiber-Associated Stem/Precursor Cells. <i>Methods in Molecular Biology</i> , 2010, 621, 149-163.	0.4	24
48	Calibrating Notch/TGF- $\beta$ 2 Signaling for Youthful, Healthy Tissue Maintenance and Repair. , 2010, , 439-449.		0
49	Molecular aging and rejuvenation of human muscle stem cells. <i>EMBO Molecular Medicine</i> , 2009, 1, 381-391.	3.3	204
50	Differentiation rather than aging of muscle stem cells abolishes their telomerase activity. <i>Biotechnology Progress</i> , 2009, 25, 1130-1137.	1.3	49
51	Relative roles of TGF- $\beta$ 1 and Wnt in the systemic regulation and aging of satellite cell responses. <i>Aging Cell</i> , 2009, 8, 676-689.	3.0	206
52	Imbalance between pSmad3 and Notch induces CDK inhibitors in old muscle stem cells. <i>Nature</i> , 2008, 454, 528-532.	18.7	432
53	Aging of signal transduction pathways, and pathology. <i>Experimental Cell Research</i> , 2008, 314, 1951-1961.	1.2	72
54	A Temporal Switch from Notch to Wnt Signaling in Muscle Stem Cells Is Necessary for Normal Adult Myogenesis. <i>Cell Stem Cell</i> , 2008, 2, 50-59.	5.2	546

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55	Regulating the Notch pathway in embryonic, adult and old stem cells. <i>Current Opinion in Pharmacology</i> , 2007, 7, 303-309.	1.7	51
56	Notch signaling pathway and tissue engineering. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 5143.	3.0	22
57	Loss of stem cell regenerative capacity within aged niches. <i>Aging Cell</i> , 2007, 6, 371-382.	3.0	206
58	The Regulation of Notch Signaling Controls Satellite Cell Activation and Cell Fate Determination in Postnatal Myogenesis. <i>Developmental Cell</i> , 2006, 10, 273.	3.1	4
59	Geometric control of myogenic cell fate. <i>International Journal of Nanomedicine</i> , 2006, 1, 203-212.	3.3	8
60	Rejuvenation of aged progenitor cells by exposure to a young systemic environment. <i>Nature</i> , 2005, 433, 760-764.	13.7	1,926
61	Aging, Stem Cells and Tissue Regeneration: Lessons from Muscle. <i>Cell Cycle</i> , 2005, 4, 407-410.	1.3	267
62	Cellular and Molecular Signatures of Muscle Regeneration: Current Concepts and Controversies in Adult Myogenesis. <i>Cell</i> , 2005, 122, 659-667.	13.5	375
63	Isolation of Adult Mouse Myogenic Progenitors. <i>Cell</i> , 2004, 119, 543-554.	13.5	446
64	Notch-Mediated Restoration of Regenerative Potential to Aged Muscle. <i>Science</i> , 2003, 302, 1575-1577.	6.0	964
65	The Regulation of Notch Signaling Controls Satellite Cell Activation and Cell Fate Determination in Postnatal Myogenesis. <i>Developmental Cell</i> , 2002, 3, 397-409.	3.1	779
66	Novel Genetic Regulation of $\alpha\epsilon\%$ T Helper 1 (Th1)/Th2 Cytokine Production and Encephalitogenicity in Inbred Mouse Strains. <i>Journal of Experimental Medicine</i> , 1997, 185, 439-452.	4.2	26
67	Analysis of Regulatory Elements of the Developmentally Controlled Chorions15Promoter in Transgenic <i>Drosophila</i> . <i>Developmental Biology</i> , 1996, 174, 115-124.	0.9	15
68	Case Report: Therapeutic and immunomodulatory effects of plasmapheresis in long-haul COVID. <i>F1000Research</i> , 0, 10, 1189.	0.8	2