

Charlotte A Peterson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2078948/publications.pdf>

Version: 2024-02-01

85
papers

4,701
citations

101543

36
h-index

106344

65
g-index

89
all docs

89
docs citations

89
times ranked

4545
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective fiber hypertrophy in satellite cell-depleted skeletal muscle. <i>Development (Cambridge)</i> , 2011, 138, 3657-3666.	2.5	531
2	Inducible depletion of satellite cells in adult, sedentary mice impairs muscle regenerative capacity without affecting sarcopenia. <i>Nature Medicine</i> , 2015, 21, 76-80.	30.7	358
3	Myogenic Progenitor Cells Control Extracellular Matrix Production by Fibroblasts during Skeletal Muscle Hypertrophy. <i>Cell Stem Cell</i> , 2017, 20, 56-69.	11.1	276
4	Regulation of the muscle fiber micro environment by activated satellite cells during hypertrophy. <i>FASEB Journal</i> , 2014, 28, 1654-1665.	0.5	225
5	Muscle inflammatory response and insulin resistance: synergistic interaction between macrophages and fatty acids leads to impaired insulin action. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E1300-E1310.	3.5	181
6	MyoVision: software for automated high-content analysis of skeletal muscle immunohistochemistry. <i>Journal of Applied Physiology</i> , 2018, 124, 40-51.	2.5	161
7	Aging alters macrophage properties in human skeletal muscle both at rest and in response to acute resistance exercise. <i>Experimental Gerontology</i> , 2006, 41, 320-327.	2.8	131
8	Satellite cell depletion does not inhibit adult skeletal muscle regrowth following unloading-induced atrophy. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C854-C861.	4.6	122
9	Differential requirement for satellite cells during overload-induced muscle hypertrophy in growing versus mature mice. <i>Skeletal Muscle</i> , 2017, 7, 14.	4.2	119
10	Nuclear translocation of EndoG at the initiation of disuse muscle atrophy and apoptosis is specific to myonuclei. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R1730-R1740.	1.8	111
11	Starring or Supporting Role? Satellite Cells and Skeletal Muscle Fiber Size Regulation. <i>Physiology</i> , 2018, 33, 26-38.	3.1	107
12	Fibre type-specific satellite cell response to aerobic training in sedentary adults. <i>Journal of Physiology</i> , 2014, 592, 2625-2635.	2.9	105
13	Intrinsic muscle clock is necessary for musculoskeletal health. <i>Journal of Physiology</i> , 2015, 593, 5387-5404.	2.9	100
14	Metformin blunts muscle hypertrophy in response to progressive resistance exercise training in older adults: A randomized, double-blind, placebo-controlled, multicenter trial: The MASTERS trial. <i>Aging Cell</i> , 2019, 18, e13039.	6.7	95
15	Measures of Healthspan as Indices of Aging in Mice—A Recommendation. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 427-430.	3.6	76
16	Myonuclear transcription is responsive to mechanical load and DNA content but uncoupled from cell size during hypertrophy. <i>Molecular Biology of the Cell</i> , 2016, 27, 788-798.	2.1	73
17	Myonuclear Domain Flexibility Challenges Rigid Assumptions on Satellite Cell Contribution to Skeletal Muscle Fiber Hypertrophy. <i>Frontiers in Physiology</i> , 2018, 9, 635.	2.8	72
18	Skeletal Muscle Pathology in Peripheral Artery Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 2577-2585.	2.4	70

#	ARTICLE	IF	CITATIONS
19	Elevated myonuclear density during skeletal muscle hypertrophy in response to training is reversed during detraining. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 316, C649-C654.	4.6	63
20	Depletion of resident muscle stem cells negatively impacts running volume, physical function, and muscle fiber hypertrophy in response to lifelong physical activity. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C1178-C1188.	4.6	62
21	Human skeletal muscle macrophages increase following cycle training and are associated with adaptations that may facilitate growth. <i>Scientific Reports</i> , 2019, 9, 969.	3.3	59
22	Chronic muscle weakness and mitochondrial dysfunction in the absence of sustained atrophy in a preclinical sepsis model. <i>ELife</i> , 2019, 8, .	6.0	58
23	Fusion-Independent Satellite Cell Communication to Muscle Fibers During Load-Induced Hypertrophy. <i>Function</i> , 2020, 1, zqaa009.	2.3	53
24	Immunohistochemical Identification of Human Skeletal Muscle Macrophages. <i>Bio-protocol</i> , 2018, 8, .	0.4	53
25	Muscle memory: myonuclear accretion, maintenance, morphology, and miRNA levels with training and detraining in adult mice. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1705-1722.	7.3	51
26	Fusion and beyond: Satellite cell contributions to loading-induced skeletal muscle adaptation. <i>FASEB Journal</i> , 2021, 35, e21893.	0.5	51
27	Fiber typing human skeletal muscle with fluorescent immunohistochemistry. <i>Journal of Applied Physiology</i> , 2019, 127, 1632-1639.	2.5	50
28	Reduced voluntary running performance is associated with impaired coordination as a result of muscle satellite cell depletion in adult mice. <i>Skeletal Muscle</i> , 2015, 5, 41.	4.2	47
29	The effect of sex on immune cells in healthy aging: Elderly women have more robust natural killer lymphocytes than do elderly men. <i>Mechanisms of Ageing and Development</i> , 2016, 156, 25-33.	4.6	46
30	Cocoa to Improve Walking Performance in Older People With Peripheral Artery Disease. <i>Circulation Research</i> , 2020, 126, 589-599.	4.5	45
31	Pioglitazone Treatment Reduces Adipose Tissue Inflammation through Reduction of Mast Cell and Macrophage Number and by Improving Vascularity. <i>PLoS ONE</i> , 2014, 9, e102190.	2.5	45
32	Mechanical overload-induced muscle-derived extracellular vesicles promote adipose tissue lipolysis. <i>FASEB Journal</i> , 2021, 35, e21644.	0.5	44
33	Satellite Cell Depletion Disrupts Transcriptional Coordination and Muscle Adaptation to Exercise. <i>Function</i> , 2020, 2, zqaa033.	2.3	43
34	Association of fibromyalgia with altered skeletal muscle characteristics which may contribute to postexertional fatigue in postmenopausal women. <i>Arthritis and Rheumatism</i> , 2013, 65, 519-528.	6.7	41
35	Aged Muscle Demonstrates Fiber-Type Adaptations in Response to Mechanical Overload, in the Absence of Myofiber Hypertrophy, Independent of Satellite Cell Abundance. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 461-467.	3.6	41
36	Reduced skeletal muscle satellite cell number alters muscle morphology after chronic stretch but allows limited serial sarcomere addition. <i>Muscle and Nerve</i> , 2017, 55, 384-392.	2.2	41

#	ARTICLE	IF	CITATIONS
37	In vivo analysis of γ H2AX+ cells in skeletal muscle from aged and obese humans. <i>FASEB Journal</i> , 2020, 34, 7018-7035.	0.5	41
38	Metformin to Augment Strength Training Effective Response in Seniors (MASTERS): study protocol for a randomized controlled trial. <i>Trials</i> , 2017, 18, 192.	1.6	40
39	Genetic and epigenetic regulation of skeletal muscle ribosome biogenesis with exercise. <i>Journal of Physiology</i> , 2021, 599, 3363-3384.	2.9	40
40	Early satellite cell communication creates a permissive environment for long-term muscle growth. <i>IScience</i> , 2021, 24, 102372.	4.1	39
41	Walking performance is positively correlated to calf muscle fiber size in peripheral artery disease subjects, but fibers show aberrant mitophagy: an observational study. <i>Journal of Translational Medicine</i> , 2016, 14, 284.	4.4	37
42	Deletion of SA β Gal+ cells using senolytics improves muscle regeneration in old mice. <i>Aging Cell</i> , 2022, 21, e13528.	6.7	34
43	Peripheral artery disease, calf skeletal muscle mitochondrial DNA copy number, and functional performance. <i>Vascular Medicine</i> , 2018, 23, 340-348.	1.5	33
44	A novel tetracycline-responsive transgenic mouse strain for skeletal muscle-specific gene expression. <i>Skeletal Muscle</i> , 2018, 8, 33.	4.2	31
45	Muscle Fiber Splitting Is a Physiological Response to Extreme Loading in Animals. <i>Exercise and Sport Sciences Reviews</i> , 2019, 47, 108-115.	3.0	29
46	A guide for using NIH Image J for single slice cross-sectional area and composition analysis of the thigh from computed tomography. <i>PLoS ONE</i> , 2019, 14, e0211629.	2.5	28
47	Making Mice Mighty: recent advances in translational models of load-induced muscle hypertrophy. <i>Journal of Applied Physiology</i> , 2020, 129, 516-521.	2.5	28
48	Myonuclear transcriptional dynamics in response to exercise following satellite cell depletion. <i>IScience</i> , 2021, 24, 102838.	4.1	28
49	Insulin-resistant subjects have normal angiogenic response to aerobic exercise training in skeletal muscle, but not in adipose tissue. <i>Physiological Reports</i> , 2015, 3, e12415.	1.7	27
50	Synergist Ablation as a Rodent Model to Study Satellite Cell Dynamics in Adult Skeletal Muscle. <i>Methods in Molecular Biology</i> , 2016, 1460, 43-52.	0.9	27
51	Methodological issues limit interpretation of negative effects of satellite cell depletion on adult muscle hypertrophy. <i>Development (Cambridge)</i> , 2017, 144, 1363-1365.	2.5	27
52	The myonuclear DNA methylome in response to an acute hypertrophic stimulus. <i>Epigenetics</i> , 2020, 15, 1151-1162.	2.7	27
53	Correlations of Calf Muscle Macrophage Content With Muscle Properties and Walking Performance in Peripheral Artery Disease. <i>Journal of the American Heart Association</i> , 2020, 9, e015929.	3.7	26
54	Associations of Peripheral Artery Disease With Calf Skeletal Muscle Mitochondrial DNA Heteroplasmy. <i>Journal of the American Heart Association</i> , 2020, 9, e015197.	3.7	26

#	ARTICLE	IF	CITATIONS
55	Cycle training modulates satellite cell and transcriptional responses to a bout of resistance exercise. <i>Physiological Reports</i> , 2016, 4, e12973.	1.7	25
56	Senolytic treatment rescues blunted muscle hypertrophy in old mice. <i>GeroScience</i> , 2022, 44, 1925-1940.	4.6	25
57	Metformin alters skeletal muscle transcriptome adaptations to resistance training in older adults. <i>Aging</i> , 2020, 12, 19852-19866.	3.1	24
58	Resident muscle stem cells are not required for testosterone-induced skeletal muscle hypertrophy. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C719-C724.	4.6	23
59	Depletion of Pax7+ satellite cells does not affect diaphragm adaptations to running in young or aged mice. <i>Journal of Physiology</i> , 2017, 595, 6299-6311.	2.9	22
60	“Muscle memory” not mediated by myonuclear number? Secondary analysis of human detraining data. <i>Journal of Applied Physiology</i> , 2019, 127, 1814-1816.	2.5	21
61	Automated cross-sectional analysis of trained, severely atrophied, and recovering rat skeletal muscles using MyoVision 2.0. <i>Journal of Applied Physiology</i> , 2022, 132, 593-610.	2.5	20
62	Human Body Composition and Immunity: Visceral Adipose Tissue Produces IL-15 and Muscle Strength Inversely Correlates with NK Cell Function in Elderly Humans. <i>Frontiers in Immunology</i> , 2018, 9, 440.	4.8	19
63	Integrative mRNA-microRNA analyses reveal novel interactions related to insulin sensitivity in human adipose tissue. <i>Physiological Genomics</i> , 2016, 48, 145-153.	2.3	18
64	A muscle cell-macrophage axis involving matrix metalloproteinase 14 facilitates extracellular matrix remodeling with mechanical loading. <i>FASEB Journal</i> , 2022, 36, e22155.	0.5	18
65	Associations of muscle lipid content with physical function and resistance training outcomes in older adults: altered responses with metformin. <i>GeroScience</i> , 2021, 43, 629-644.	4.6	14
66	Skeletal muscle properties show collagen organization and immune cell content are associated with resistance exercise response heterogeneity in older persons. <i>Journal of Applied Physiology</i> , 2022, 132, 1432-1447.	2.5	12
67	Immune Function and Muscle Adaptations to Resistance exercise in Older Adults: Study Protocol for a Randomized Controlled Trial of a Nutritional Supplement. <i>Trials</i> , 2015, 16, 121.	1.6	11
68	Tutorial for using SliceOmatic to calculate thigh area and composition from computed tomography images from older adults. <i>PLoS ONE</i> , 2018, 13, e0204529.	2.5	11
69	Muscle transcriptional networks linked to resistance exercise training hypertrophic response heterogeneity. <i>Physiological Genomics</i> , 2021, 53, 206-221.	2.3	11
70	Time-course analysis of the effect of embedded metal on skeletal muscle gene expression. <i>Physiological Genomics</i> , 2020, 52, 575-587.	2.3	10
71	Phosphorylation of eukaryotic initiation factor 4E is dispensable for skeletal muscle hypertrophy. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C1247-C1255.	4.6	9
72	Data correlations between gender, cytomegalovirus infection and T cells, NK cells, and soluble immune mediators in elderly humans. <i>Data in Brief</i> , 2016, 8, 536-544.	1.0	7

#	ARTICLE	IF	CITATIONS
73	Learning based automatic detection of myonuclei in isolated single skeletal muscle fibers using multi-focus image fusion. , 2013, , .		6
74	Exercise-mediated alteration of hippocampal Dicer mRNA and miRNAs is associated with lower BACE1 gene expression and A β 1-42 in female 3xTg-AD mice. Journal of Neurophysiology, 2020, 124, 1571-1577.	1.8	5
75	Potential Benefits of Combined Statin and Metformin Therapy on Resistance Training Response in Older Individuals. Frontiers in Physiology, 2022, 13, 872745.	2.8	5
76	On the appropriateness of antibody selection to estimate mTORC1 activity. Acta Physiologica, 2020, 228, e13354.	3.8	4
77	Hydrophobic sand is a viable method of urine collection from the rat for extracellular vesicle biomarker analysis. Molecular Genetics and Metabolism Reports, 2019, 21, 100505.	1.1	3
78	Urine miRNAs as potential biomarkers for systemic reactions induced by exposure to embedded metal. Biomarkers in Medicine, 2021, 15, 1397-1410.	1.4	3
79	Sarcopenia and hypertrophy in aged skeletal muscle is independent of lifelong muscle stem cell depletion. FASEB Journal, 2013, 27, 1150.8.	0.5	1
80	Regulation of human skeletal muscle gene expression by aging, resistance exercise, and IL-1 β : identification of candidate mRNAs using a custom real-time PCR screening method. FASEB Journal, 2007, 21, A1309.	0.5	0
81	Skeletal muscle fibroblast collagen expression is negatively regulated by satellite cells. FASEB Journal, 2012, 26, 1078.15.	0.5	0
82	Satellite Cells are not Prerequisite for Skeletal Muscle Regrowth Following Unloading-Induced Atrophy. FASEB Journal, 2012, 26, 1143.11.	0.5	0
83	Anti-inflammatory Muscle Macrophage Phenotype is Predictive of Resistance Training Gain in Older Individuals. FASEB Journal, 2012, 26, 1143.12.	0.5	0
84	The influence of satellite cell depletion on glycosaminoglycan accumulation in aged skeletal muscle. FASEB Journal, 2013, 27, 1150.10.	0.5	0
85	Satellite Cell Depletion Negatively Impacts Voluntary Wheel Running Performance in Mice. FASEB Journal, 2013, 27, 1152.9.	0.5	0