# Charlotte A Peterson

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | A muscle cellâ€macrophage axis involving matrix metalloproteinase 14 facilitates extracellular matrix remodeling with mechanical loading. FASEB Journal, 2022, 36, e22155. | 0.5 | 18 |
| 2 | Automated cross-sectional analysis of trained, severely atrophied, and recovering rat skeletal muscles using MyoVision 2.0. Journal of Applied Physiology, 2022, 132, 593-610. | 2.5 | 20 |
| 3 | Deletion of SA Î²â€Gal+ cells using senolytics improves muscle regeneration in old mice. Aging Cell, 2022, 21, e13528. | 6.7 | 34 |
| 4 | Senolytic treatment rescues blunted muscle hypertrophy in old mice. GeroScience, 2022, 44, 1925-1940. | 4.6 | 25 |
| 5 | Potential Benefits of Combined Statin and Metformin Therapy on Resistance Training Response in Older Individuals. Frontiers in Physiology, 2022, 13, 872745. | 2.8 | 5 |
| 6 | Skeletal muscle properties show collagen organization and immune cell content are associated with resistance exercise response heterogeneity in older persons. Journal of Applied Physiology, 2022, 132, 1432-1447. | 2.5 | 12 |
| 7 | Early satellite cell communication creates a permissive environment for long-term muscle growth. IScience, 2021, 24, 102372. | 4.1 | 39 |
| 8 | Mechanical overloadâ€induced muscleâ€derived extracellular vesicles promote adipose tissue lipolysis. FASEB Journal, 2021, 35, e21644. | 0.5 | 44 |
| 9 | Muscle transcriptional networks linked to resistance exercise training hypertrophic response heterogeneity. Physiological Genomics, 2021, 53, 206-221. | 2.3 | 11 |
| 10 | Genetic and epigenetic regulation of skeletal muscle ribosome biogenesis with exercise. Journal of Physiology, 2021, 599, 3363-3384. | 2.9 | 40 |
| 11 | Myonuclear transcriptional dynamics in response to exercise following satellite cell depletion. IScience, 2021, 24, 102838. | 4.1 | 28 |
| 12 | Fusion and beyond: Satellite cell contributions to loadingâ€induced skeletal muscle adaptation. FASEB Journal, 2021, 35, e21893. | 0.5 | 51 |
| 13 | Urine miRNAs as potential biomarkers for systemic reactions induced by exposure to embedded metal. Biomarkers in Medicine, 2021, 15, 1397-1410. | 1.4 | 3 |
| 14 | Associations of muscle lipid content with physical function and resistance training outcomes in older adults: altered responses with metformin. GeroScience, 2021, 43, 629-644. | 4.6 | 14 |
| 15 | On the appropriateness of antibody selection to estimate mTORC1 activity. Acta Physiologica, 2020, 228, e13354. | 3.8 | 4 |
| 16 | Exercise-mediated alteration of hippocampal Dicer mRNA and miRNAs is associated with lower BACE1 gene expression and Aî²1-42 in female 3xTg-AD mice. Journal of Neurophysiology, 2020, 124, 1571-1577. | 1.8 | 5 |
| 17 | Time-course analysis of the effect of embedded metal on skeletal muscle gene expression. Physiological Genomics, 2020, 52, 575-587. | 2.3 | 10 |
| 18 | Fusion-Independent Satellite Cell Communication to Muscle Fibers During Load-Induced Hypertrophy. Function, 2020, 1, zqaa009. | 2.3 | 53 |

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|---|---|---|---|
| 19 | Making Mice Mighty: recent advances in translational models of load-induced muscle hypertrophy. Journal of Applied Physiology, 2020, 129, 516-521. | 2.5 | 28 |
| 20 | Satellite Cell Depletion Disrupts Transcriptional Coordination and Muscle Adaptation to Exercise. Function, 2020, 2, zqaa033. | 2.3 | 43 |
| 21 | Muscle memory: myonuclear accretion, maintenance, morphology, and miRNA levels with training and detraining in adult mice. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1705-1722. | 7.3 | 51 |
| 22 | Skeletal Muscle Pathology in Peripheral Artery Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2577-2585. | 2.4 | 70 |
| 23 | Correlations of Calf Muscle Macrophage Content With Muscle Properties and Walking Performance in Peripheral Artery Disease. Journal of the American Heart Association, 2020, 9, e015929. | 3.7 | 26 |
| 24 | Associations of Peripheral Artery Disease With Calf Skeletal Muscle Mitochondrial DNA Heteroplasmy. Journal of the American Heart Association, 2020, 9, e015197. | 3.7 | 26 |
| 25 | Cocoa to Improve Walking Performance in Older People With Peripheral Artery Disease. Circulation Research, 2020, 126, 589-599. | 4.5 | 45 |
| 26 | The myonuclear DNA methylome in response to an acute hypertrophic stimulus. Epigenetics, 2020, 15, 1151-1162. | 2.7 | 27 |
| 27 | In vivo analysis of Î³H2AX+ cells in skeletal muscle from aged and obese humans. FASEB Journal, 2020, 34, 7018-7035. | 0.5 | 41 |
| 28 | Depletion of resident muscle stem cells negatively impacts running volume, physical function, and muscle fiber hypertrophy in response to lifelong physical activity. American Journal of Physiology - Cell Physiology, 2020, 318, C1178-C1188. | 4.6 | 62 |
| 29 | Metformin alters skeletal muscle transcriptome adaptations to resistance training in older adults. Aging, 2020, 12, 19852-19866. | 3.1 | 24 |
| 30 | Resident muscle stem cells are not required for testosterone-induced skeletal muscle hypertrophy. American Journal of Physiology - Cell Physiology, 2019, 317, C719-C724. | 4.6 | 23 |
| 31 | Phosphorylation of eukaryotic initiation factor 4E is dispensable for skeletal muscle hypertrophy. American Journal of Physiology - Cell Physiology, 2019, 317, C1247-C1255. | 4.6 | 9 |
| 32 | Fiber typing human skeletal muscle with fluorescent immunohistochemistry. Journal of Applied Physiology, 2019, 127, 1632-1639. | 2.5 | 50 |
| 33 | Metformin blunts muscle hypertrophy in response to progressive resistance exercise training in older adults: A randomized, doubleâ€blind, placeboâ€controlled, multicenter trial: The MASTERS trial. Aging Cell, 2019, 18, e13039. | 6.7 | 95 |
| 34 | â€œMuscle memoryâ€•not mediated by myonuclear number? Secondary analysis of human detraining data. Journal of Applied Physiology, 2019, 127, 1814-1816. | 2.5 | 21 |
| 35 | 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 |
| 36 | Human skeletal muscle macrophages increase following cycle training and are associated with adaptations that may facilitate growth. Scientific Reports, 2019, 9, 969. | 3.3 | 59 |

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| 37 | Elevated myonuclear density during skeletal muscle hypertrophy in response to training is reversed during detraining. American Journal of Physiology - Cell Physiology, 2019, 316, C649-C654. | 4.6 | 63 |
| 38 | A guide for using NIH Image J for single slice cross-sectional area and composition analysis of the thigh from computed tomography. PLoS ONE, 2019, 14, e0211629. | 2.5 | 28 |
| 39 | Muscle Fiber Splitting Is a Physiological Response to Extreme Loading in Animals. Exercise and Sport Sciences Reviews, 2019, 47, 108-115. | 3.0 | 29 |
| 40 | Chronic muscle weakness and mitochondrial dysfunction in the absence of sustained atrophy in a preclinical sepsis model. ELife, 2019, 8, . | 6.0 | 58 |
| 41 | MyoVision: software for automated high-content analysis of skeletal muscle immunohistochemistry. Journal of Applied Physiology, 2018, 124, 40-51. | 2.5 | 161 |
| 42 | A novel tetracycline-responsive transgenic mouse strain for skeletal muscle-specific gene expression. Skeletal Muscle, 2018, 8, 33. | 4.2 | 31 |
| 43 | Tutorial for using SliceOmatic to calculate thigh area and composition from computed tomography images from older adults. PLoS ONE, 2018, 13, e0204529. | 2.5 | 11 |
| 44 | Myonuclear Domain Flexibility Challenges Rigid Assumptions on Satellite Cell Contribution to Skeletal Muscle Fiber Hypertrophy. Frontiers in Physiology, 2018, 9, 635. | 2.8 | 72 |
| 45 | Starring or Supporting Role? Satellite Cells and Skeletal Muscle Fiber Size Regulation. Physiology, 2018, 33, 26-38. | 3.1 | 107 |
| 46 | Human Body Composition and Immunity: Visceral Adipose Tissue Produces IL-15 and Muscle Strength Inversely Correlates with NK Cell Function in Elderly Humans. Frontiers in Immunology, 2018, 9, 440. | 4.8 | 19 |
| 47 | Peripheral artery disease, calf skeletal muscle mitochondrial DNA copy number, and functional performance. Vascular Medicine, 2018, 23, 340-348. | 1.5 | 33 |
| 48 | Immunohistochemical Identification of Human Skeletal Muscle Macrophages. Bio-protocol, 2018, 8, . | 0.4 | 53 |
| 49 | Methodological issues limit interpretation of negative effects of satellite cell depletion on adult muscle hypertrophy. Development (Cambridge), 2017, 144, 1363-1365. | 2.5 | 27 |
| 50 | Metformin to Augment Strength Training Effective Response in Seniors (MASTERS): study protocol for a randomized controlled trial. Trials, 2017, 18, 192. | 1.6 | 40 |
| 51 | Depletion of Pax7+ satellite cells does not affect diaphragm adaptations to running in young or aged mice. Journal of Physiology, 2017, 595, 6299-6311. | 2.9 | 22 |
| 52 | Myogenic Progenitor Cells Control Extracellular Matrix Production by Fibroblasts during Skeletal Muscle Hypertrophy. Cell Stem Cell, 2017, 20, 56-69. | 11.1 | 276 |
| 53 | Reduced skeletal muscle satellite cell number alters muscle morphology after chronic stretch but allows limited serial sarcomere addition. Muscle and Nerve, 2017, 55, 384-392. | 2.2 | 41 |
| 54 | Differential requirement for satellite cells during overload-induced muscle hypertrophy in growing versus mature mice. Skeletal Muscle, 2017, 7, 14. | 4.2 | 119 |

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|---|---|---|---|
| 55 | Data correlations between gender, cytomegalovirus infection and T cells, NK cells, and soluble immune mediators in elderly humans. Data in Brief, 2016, 8, 536-544. | 1.0 | 7 |
| 56 | Cycle training modulates satellite cell and transcriptional responses to a bout of resistance exercise. Physiological Reports, 2016, 4, e12973. | 1.7 | 25 |
| 57 | Walking performance is positively correlated to calf muscle fiber size in peripheral artery disease subjects, but fibers show aberrant mitophagy: an observational study. Journal of Translational Medicine, 2016, 14, 284. | 4.4 | 37 |
| 58 | Synergist Ablation as a Rodent Model to Study Satellite Cell Dynamics in Adult Skeletal Muscle. Methods in Molecular Biology, 2016, 1460, 43-52. | 0.9 | 27 |
| 59 | The effect of sex on immune cells in healthy aging: Elderly women have more robust natural killer lymphocytes than do elderly men. Mechanisms of Ageing and Development, 2016, 156, 25-33. | 4.6 | 46 |
| 60 | Integrative mRNA-microRNA analyses reveal novel interactions related to insulin sensitivity in human adipose tissue. Physiological Genomics, 2016, 48, 145-153. | 2.3 | 18 |
| 61 | Myonuclear transcription is responsive to mechanical load and DNA content but uncoupled from cell size during hypertrophy. Molecular Biology of the Cell, 2016, 27, 788-798. | 2.1 | 73 |
| 62 | Measures of Healthspan as Indices of Aging in Miceâ€”A Recommendation. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 427-430. | 3.6 | 76 |
| 63 | Aged Muscle Demonstrates Fiber-Type Adaptations in Response to Mechanical Overload, in the Absence of Myofiber Hypertrophy, Independent of Satellite Cell Abundance. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 461-467. | 3.6 | 41 |
| 64 | Reduced voluntary running performance is associated with impaired coordination as a result of muscle satellite cell depletion in adult mice. Skeletal Muscle, 2015, 5, 41. | 4.2 | 47 |
| 65 | Intrinsic muscle clock is necessary for musculoskeletal health. Journal of Physiology, 2015, 593, 5387-5404. | 2.9 | 100 |
| 66 | Immune Function and Muscle Adaptations to Resistance exercise in Older Adults: Study Protocol for a Randomized Controlled Trial of a Nutritional Supplement. Trials, 2015, 16, 121. | 1.6 | 11 |
| 67 | Insulin-resistant subjects have normal angiogenic response to aerobic exercise training in skeletal muscle, but not in adipose tissue. Physiological Reports, 2015, 3, e12415. | 1.7 | 27 |
| 68 | Inducible depletion of satellite cells in adult, sedentary mice impairs muscle regenerative capacity without affecting sarcopenia. Nature Medicine, 2015, 21, 76-80. | 30.7 | 358 |
| 69 | Regulation of the muscle fiber micro environment by activated satellite cells during hypertrophy. FASEB Journal, 2014, 28, 1654-1665. | 0.5 | 225 |
| 70 | Fibre typeâ€specific satellite cell response to aerobic training in sedentary adults. Journal of Physiology, 2014, 592, 2625-2635. | 2.9 | 105 |
| 71 | Pioglitazone Treatment Reduces Adipose Tissue Inflammation through Reduction of Mast Cell and Macrophage Number and by Improving Vascularity. PLoS ONE, 2014, 9, e102190. | 2.5 | 45 |
| 72 | Learning based automatic detection of myonuclei in isolated single skeletal muscle fibers using multi-focus image fusion. , 2013, , . | | 6 |

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|---|---|---|---|
| 73 | Association of fibromyalgia with altered skeletal muscle characteristics which may contribute to postexertional fatigue in postmenopausal women. Arthritis and Rheumatism, 2013, 65, 519-528. | 6.7 | 41 |
| 74 | The influence of satellite cellâ€depletion on glycosaminoglycan accumulation in aged skeletal muscle. FASEB Journal, 2013, 27, 1150.10. | 0.5 | 0 |
| 75 | Sarcopenia and hypertrophy in aged skeletal muscle is independent of lifelong muscle stem cell depletion. FASEB Journal, 2013, 27, 1150.8. | 0.5 | 1 |
| 76 | Satellite Cell Depletion Negatively Impacts Voluntary Wheel Running Performance in Mice. FASEB Journal, 2013, 27, 1152.9. | 0.5 | 0 |
| 77 | Satellite cell depletion does not inhibit adult skeletal muscle regrowth following unloading-induced atrophy. American Journal of Physiology - Cell Physiology, 2012, 303, C854-C861. | 4.6 | 122 |
| 78 | Skeletal muscle fibroblast collagen expression is negatively regulated by satellite cells. FASEB Journal, 2012, 26, 1078.15. | 0.5 | 0 |
| 79 | Satellite Cells are not Prerequisite for Skeletal Muscle Regrowth Following Unloadingâ€Induced Atrophy. FASEB Journal, 2012, 26, 1143.11. | 0.5 | 0 |
| 80 | Antiâ€Inflammatory Muscle Macrophage Phenotype is Predictive of Resistance Training Gain in Older Individuals. FASEB Journal, 2012, 26, 1143.12. | 0.5 | 0 |
| 81 | Effective fiber hypertrophy in satellite cell-depleted skeletal muscle. Development (Cambridge), 2011, 138, 3657-3666. | 2.5 | 531 |
| 82 | Muscle inflammatory response and insulin resistance: synergistic interaction between macrophages and fatty acids leads to impaired insulin action. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E1300-E1310. | 3.5 | 181 |
| 83 | Regulation of human skeletal muscle gene expression by aging, resistance exercise, and ILâ€1Î²: identification of candidate mRNAs using a custom realâ€time PCR screening method. FASEB Journal, 2007, 21, A1309. | 0.5 | 0 |
| 84 | Aging alters macrophage properties in human skeletal muscle both at rest and in response to acute resistance exercise. Experimental Gerontology, 2006, 41, 320-327. | 2.8 | 131 |
| 85 | Nuclear translocation of EndoG at the initiation of disuse muscle atrophy and apoptosis is specific to myonuclei. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R1730-R1740. | 1.8 | 111 |