

**Published / Epub Ahead of Print**

**2023**

1. Mau T, Lui LY, Distefano G, Kramer PA, Ramos SV, Toledo FGS, Santanasto AJ, Shankland EG, Marcinek DJ, Jurczak MJ, Sipula I, Bello FM, Duchowny KA, Molina AJA, Sparks LM, Goodpaster BH, Hepple RT, Kritchevsky SB, Newman AB, Cawthon PM, Cummings SR, Coen PM. [Mitochondrial Energetics in Skeletal Muscle Are Associated With Leg Power and Cardiorespiratory Fitness in the Study of Muscle, Mobility and Aging](#). J Gerontol A Biol Sci Med Sci. 2023 Aug 2;78(8):1367-1375. doi: 10.1093/gerona/glac238. PMID: 36462195; PMCID: PMC10395564.
2. Moored KD, Qiao YS, Rosso AL, Toledo FGS, Cawthon PM, Cummings SR, Goodpaster BH, Kritchevsky SB, Glynn NW. [Dual Roles of Cardiorespiratory Fitness and Fatigability in the Life-Space Mobility of Older Adults: The Study of Muscle, Mobility and Aging \(SOMMA\)](#). J Gerontol A Biol Sci Med Sci. 2023 Aug 2;78(8):1392-1401. doi: 10.1093/gerona/glad037. PMID: 36715332; PMCID: PMC10395561.
3. Thompson AC, Johnson E, Miller ME, Williamson JD, Newman AB, Cummings S, Cawthon P, Kritchevsky SB. [The relationship between visual function and physical performance in the Study of Muscle, Mobility and Aging \(SOMMA\)](#). PLoS One. 2023 Sep 27;18(9):e0292079. doi: 10.1371/journal.pone.0292079. PMID: 37756354; PMCID: PMC10529600.
4. Cummings SR, Newman AB, Coen PM, Hepple RT, Collins R, Kennedy Ms K, Danielson M, Peters K, Blackwell T, Johnson E, Mau T, Shankland EG, Lui LY, Patel S, Young D, Glynn NW, Strotmeyer ES, Esser KA, Marcinek DJ, Goodpaster BH, Kritchevsky S, Cawthon PM. [The Study of Muscle, Mobility and Aging \(SOMMA\): A Unique Cohort Study About the Cellular Biology of Aging and Age-related Loss of Mobility](#). J Gerontol A Biol Sci Med Sci. 2023 Oct 28;78(11):2083-2093. doi: 10.1093/gerona/glad052. PMID: 36754371; PMCID: PMC10613002.
5. Qiao YS, Harezlak J, Cawthon PM, Cummings SR, Forman DE, Goodpaster BH, Hawkins M, Moored KD, Nicklas BJ, Toledo FGS, Toto PE, Santanasto AJ, Strotmeyer ES, Newman AB, Glynn NW. [Validation of the Pittsburgh Performance Fatigability Index in the Study of Muscle, Mobility and Aging](#). J Gerontol A Biol Sci Med Sci. 2023 Dec 1;78(12):2387-2395. doi: 10.1093/gerona/glad197. PMID: 37566383; PMCID: PMC10692427.

**2024**

6. Newman AB, Blackwell TL, Mau T, Cawthon PM, Coen PM, Cummings SR, Toledo FGS, Goodpaster BH, Glynn NW, Hepple RT, Kritchevsky SB. [Vigor to Frailty As a Continuum-A New Approach in the Study of Muscle, Mobility, and Aging Cohort](#). J Gerontol A Biol Sci Med Sci. 2024 Jan 1;79(1):glad244. doi: 10.1093/gerona/glad244. PMID: 37847228; PMCID: PMC10733210.
7. Garcia RE, Cawthon PM, Nicklas BJ, Goodpaster BH, Coen PM, Forman DE, Cummings SR, Newman AB, Glynn NW. [Usual-paced 400 m long distance corridor walk estimates cardiorespiratory fitness among older adults: The Study of Muscle, Mobility and Aging](#). J Am Geriatr Soc. 2024 Mar;72(3):858-865. doi: 10.1111/jgs.18713. Epub 2023 Dec 27. PMID: 38149438; PMCID: PMC10947881.

8. Duchowny KA, Marcinek DJ, Mau T, Diaz-Ramierz LG, Lui LY, Toledo FGS, Cawthon PM, Hepple RT, Kramer PA, Newman AB, Kritchevsky SB, Cummings SR, Coen PM, Molina AJA. [Childhood adverse life events and skeletal muscle mitochondrial function](#). Sci Adv. 2024 Mar 8;10(10):eadj6411. doi: 10.1126/sciadv.adj6411. Epub 2024 Mar 6. PMID: 38446898; PMCID: PMC10917337.
9. Mau T, Barnes HN, Blackwell TL, Kramer PA, Bauer SR, Marcinek DJ, Ramos SV, Forman DE, Toledo FGS, Hepple RT, Kritchevsky SB, Cummings SR, Newman AB, Coen PM, Cawthon PM. [Lower muscle mitochondrial energetics is associated with greater phenotypic frailty in older women and men: the Study of Muscle, Mobility and Aging](#). Geroscience. 2024 Apr;46(2):2409-2424. doi: 10.1007/s11357-023-01002-1. Epub 2023 Nov 21. PMID: 37987886; PMCID: PMC10828481.
10. Cummings SR, Lui LY, Glynn NW, Mau T, Cawthon PM, Kritchevsky SB, Coen PM, Goodpaster B, Marcinek DJ, Hepple RT, Patel S, Newman AB. [Energetics and clinical factors for the time required to walk 400 m: The Study of Muscle, Mobility and Aging \(SOMMA\)](#). J Am Geriatr Soc. 2024 Apr;72(4):1035-1047. doi: 10.1111/jgs.18763. Epub 2024 Jan 19. PMID: 38243364; PMCID: PMC10659495.
11. Cawthon PM, Blackwell TL, Kritchevsky SB, Newman AB, Hepple RT, Coen PM, Goodpaster BH, Duchowny K, Hetherington-Rauth M, Mau T, Shankaran M, Hellerstein M, Evans WJ, Cummings SR. [Associations Between D3Cr Muscle Mass and Magnetic Resonance Thigh Muscle Volume With Strength, Power, Physical Performance, Fitness, and Limitations in Older Adults in the SOMMA Study](#). J Gerontol A Biol Sci Med Sci. 2024 Apr 1;79(4):glae056. doi: 10.1093/gerona/glae056. PMID: 38367212; PMCID: PMC10659521.
12. Erickson ML, Blackwell TL, Mau T, Cawthon PM, Glynn NW, Qiao YS, Cummings SR, Coen PM, Lane NE, Kritchevsky SB, Newman AB, Farsijani S, Esser KA. [Age Is Associated With Dampened Circadian Patterns of Rest and Activity: The Study of Muscle, Mobility, and Aging \(SOMMA\)](#). J Gerontol A Biol Sci Med Sci. 2024 Apr 1;79(4):glae049. doi: 10.1093/gerona/glae049. PMID: 38416053; PMCID: PMC10972577.
13. Igudesman D, Mucinski J, Harrison S, Cawthon PM, Linge J, Goodpaster BH, Cummings SR, Hepple RT, Jurczak MJ, Kritchevsky SB, Marcinek D, Coen PM, Corbin KD. [Associations of Skeletal Muscle Mass, Muscle Fat Infiltration, Mitochondrial Energetics, and Cardiorespiratory Fitness With Liver Fat Among Older Adults](#). J Gerontol A Biol Sci Med Sci. 2024 Apr 1;79(4):glae047. doi: 10.1093/gerona/glae047. PMID: 38366047; PMCID: PMC10949442.
14. Kramer PA, Coen PM, Cawthon PM, Distefano G, Cummings SR, Goodpaster BH, Hepple RT, Kritchevsky SB, Shankland EG, Marcinek DJ, Toledo FGS, Duchowny KA, Ramos SV, Harrison S, Newman AB, Molina AJA. [Skeletal Muscle Energetics Explain the Sex Disparity in Mobility Impairment in the Study of Muscle, Mobility and Aging](#). J Gerontol A Biol Sci Med Sci. 2024 Apr 1;79(4):glad283. doi: 10.1093/gerona/glad283. PMID: 38150179; PMCID: PMC10960628.
15. Kramer PA, Zamora E, Barnes HN, Strotmeyer ES, Glynn NW, Lane NE, Coen PM, Cawthon PM, Goodpaster BH, Newman AB, Kritchevsky SB, Cummings SR. [The Association of Skeletal Muscle Energetics With Recurrent Falls in Older Adults Within the Study of Muscle, Mobility and Aging](#). J Gerontol A Biol Sci Med Sci. 2024 Apr 1;79(4):glae018. doi: 10.1093/gerona/glae018. PMID: 38206375; PMCID: PMC10924446.

16. Elingaard-Larsen LO, Whytock KL, Divoux A, Hopf M, Kershaw EE, Justice JN, Goodpaster BH, Lane NE, Sparks LM. [Isolation of Nuclei from Human Intermuscular Adipose Tissue and Downstream Single-Nuclei RNA Sequencing](#). J Vis Exp. 2024 May 3;(207). doi: 10.3791/66784. PMID: 38767365.
17. Petnehazy N, Barnes HN, Newman AB, Kritchevsky SB, Cummings SR, Hepplen RT, Cawthon PM. [Muscle Mass, Strength, Power and Physical Performance and Their Association with Quality of Life in Older Adults, the Study of Muscle, Mobility and Aging \(SOMMA\)](#). J Frailty Aging. 2024 May 28;13(4):384-390. doi: 10.14283/jfa.2024.45. PMID: 39574257; PMCID: PMC10635249.
18. Bauer SR, Parker-Autry C, Lu K, Cummings SR, Hepple RT, Scherzer R, Covinsky K, Cawthon PM. [Skeletal Muscle Health, Physical Performance, and Lower Urinary Tract Symptoms in Older Adults: The Study of Muscle, Mobility, and Aging](#). J Gerontol A Biol Sci Med Sci. 2024 Jun 1;79(6):glad218. doi: 10.1093/gerona/glad218. PMID: 37694941; PMCID: PMC11083634.
19. Brennan AM, Coen PM, Mau T, Hetherington-Rauth M, Toledo FGS, Kershaw EE, Cawthon PM, Kramer PA, Ramos SV, Newman AB, Cummings SR, Forman DE, Yeo RX, Distefano G, Miljkovic I, Justice JN, Molina AJA, Jurczak MJ, Sparks LM, Kritchevsky SB, Goodpaster BH. [Associations between regional adipose tissue distribution and skeletal muscle bioenergetics in older men and women](#). Obesity (Silver Spring). 2024 Jun;32(6):1125-1135. doi: 10.1002/oby.24008. PMID: 38803308; PMCID: PMC11139412.
20. Coen PM, Huo Z, Tranah GJ, Barnes HN, Zhang X, Wolff CA, Wu K, Cawthon PM, Hepple RT, Toledo FGS, Evans DS, Santiago-Fernández O, Cuervo AM, Kritchevsky SB, Newman AB, Cummings SR, Esser KA. [Autophagy gene expression in skeletal muscle of older individuals is associated with physical performance, muscle volume and mitochondrial function in the study of muscle, mobility and aging \(SOMMA\)](#). Aging Cell. 2024 Jun;23(6):e14118. doi: 10.1111/accel.14118. Epub 2024 Apr 16. PMID: 38627910; PMCID: PMC11166359.
21. Day NJ, Kelly SS, Lui LY, Mansfield TA, Gaffrey MJ, Trejo JB, Sagendorf TJ, Attah IK, Moore RJ, Douglas CM, Newman AB, Kritchevsky SB, Kramer PA, Marcinek DJ, Coen PM, Goodpaster BH, Hepple RT, Cawthon PM, Petyuk VA, Esser KA, Qian WJ, Cummings SR. [Signatures of cysteine oxidation on muscle structural and contractile proteins are associated with physical performance and muscle function in older adults: Study of Muscle, Mobility and Aging \(SOMMA\)](#). Aging Cell. 2024 Jun;23(6):e14094. doi: 10.1111/accel.14094. Epub 2024 Feb 8. PMID: 38332629; PMCID: PMC11166363.
22. Lukasiewicz CJ, Tranah GJ, Evans DS, Coen PM, Barnes HN, Huo Z, Esser KA, Zhang X, Wolff C, Wu K, Lane NE, Kritchevsky SB, Newman AB, Cummings SR, Cawthon PM, Hepple RT. [Higher expression of denervation-responsive genes is negatively associated with muscle volume and performance traits in the study of muscle, mobility, and aging \(SOMMA\)](#). Aging Cell. 2024 Jun;23(6):e14115. doi: 10.1111/accel.14115. Epub 2024 Jun 3. PMID: 38831622; PMCID: PMC11166368.
23. Mao Z, Cawthon PM, Kritchevsky SB, Toledo FGS, Esser KA, Erickson ML, Newman AB, Farsijani S. [The association between chrononutrition behaviors and muscle health among older adults: The study of muscle, mobility and aging](#). Aging Cell. 2024 Jun;23(6):e14059. doi: 10.1111/accel.14059. Epub 2023 Dec 7. PMID: 38059319; PMCID: PMC11166361.

24. Qiao YS, Santanasto AJ, Coen PM, Cawthon PM, Cummings SR, Forman DE, Goodpaster BH, Harezlak J, Hawkins M, Kritchevsky SB, Nicklas BJ, Toledo FGS, Toto PE, Newman AB, Glynn NW. [Associations between skeletal muscle energetics and accelerometry-based performance fatigability: Study of Muscle, Mobility and Aging](#). Aging Cell. 2024 Jun;23(6):e14015. doi: 10.1111/accel.14015. Epub 2023 Oct 16. PMID: 37843879; PMCID: PMC11166367.
25. Tranah GJ, Barnes HN, Cawthon PM, Coen PM, Esser KA, Hepple RT, Huo Z, Kramer PA, Toledo FGS, Zhang X, Wu K, Wolff CA, Evans DS, Cummings SR. [Expression of mitochondrial oxidative stress response genes in muscle is associated with mitochondrial respiration, physical performance, and muscle mass in the Study of Muscle, Mobility, and Aging](#). Aging Cell. 2024 Jun;23(6):e14114. doi: 10.1111/accel.14114. Epub 2024 Jun 3. PMID: 38831629; PMCID: PMC11166362.
26. Zamora Z, Lui LY, Sparks LM, Justice J, Lyles M, Gentle L, Gregory H, Yeo RX, Kershaw EE, Stefanovic-Racic M, Newman AB, Kritchevsky S, Toledo FGS. [Percutaneous biopsies of skeletal muscle and adipose tissue in individuals older than 70: methods and outcomes in the Study of Muscle, Mobility and Aging \(SOMMA\)](#). Geroscience. 2024 Jun;46(3):3419-3428. doi: 10.1007/s11357-024-01087-2. Epub 2024 Feb 5. PMID: 38315316; PMCID: PMC11009187.
27. Mau T, Blackwell TL, Cawthon PM, Molina AJA, Coen PM, Distefano G, Kramer PA, Ramos SV, Forman DE, Goodpaster BH, Toledo FGS, Duchowny KA, Sparks LM, Newman AB, Kritchevsky SB, Cummings SR. [Muscle Mitochondrial Bioenergetic Capacities Are Associated With Multimorbidity Burden in Older Adults: The Study of Muscle, Mobility and Aging](#). J Gerontol A Biol Sci Med Sci. 2024 Jul 1;79(7):glae101. doi: 10.1093/gerona/glae101. PMID: 38605684; PMCID: PMC11167490.
28. Ramos SV, Distefano G, Lui LY, Cawthon PM, Kramer P, Sipula IJ, Bello FM, Mau T, Jurczak MJ, Molina AJ, Kershaw EE, Marcinek DJ, Shankland E, Toledo FGS, Newman AB, Hepple RT, Kritchevsky SB, Goodpaster BH, Cummings SR, Coen PM. [Role of Cardiorespiratory Fitness and Mitochondrial Oxidative Capacity in Reduced Walk Speed of Older Adults With Diabetes](#). Diabetes. 2024 Jul 1;73(7):1048-1057. doi: 10.2337/db23-0827. PMID: 38551899; PMCID: PMC11189829.
29. Garcia RE, Blackwell TL, Forman DE, Coen PM, Nicklas BJ, Qiao YS, Cawthon PM, Toledo FGS, Goodpaster BH, Cummings SR, Newman AB, Glynn NW. [Role of Walking Energetics and Perceived Fatigability Differs by Gait Speed: The Study of Muscle, Mobility and Aging \(SOMMA\)](#). J Gerontol A Biol Sci Med Sci. 2024 Sep 1;79(9):glae187. doi: 10.1093/gerona/glae187. PMID: 39066507; PMCID: PMC11341985.
30. Qiao YS, Blackwell TL, Cawthon PM, Coen PM, Cummings SR, Distefano G, Farsijani S, Forman DE, Goodpaster BH, Kritchevsky SB, Mau T, Toledo FGS, Newman AB, Glynn NW. [Associations of accelerometry-measured and self-reported physical activity and sedentary behavior with skeletal muscle energetics: The Study of Muscle, Mobility and Aging \(SOMMA\)](#). J Sport Health Sci. 2024 Sep;13(5):621-630. doi: 10.1016/j.jshs.2024.02.001. Epub 2024 Feb 9. PMID: 38341136; PMCID: PMC11282341.
31. Wolf C, Blackwell TL, Johnson E, Glynn NW, Nicklas B, Kritchevsky SB, Carnero EA, Cawthon PM, Cummings SR, Toledo FGS, Newman AB, Forman DE, Goodpaster BH. [Cardiopulmonary Exercise Testing in a Prospective Multicenter Cohort of Older Adults](#). Med Sci Sports Exerc. 2024 Sep 1;56(9):1574-1584. doi: 10.1249/MSS.0000000000003444. Epub 2024 Apr 11. PMID: 38598351; PMCID: PMC11326997.

32. Rosano C, Chahine LM, Gay EL, Coen PM, Bohnen NI, Studenski SA, LoPresti B, Rosso AL, Huppert T, Newman AB, Royse SK, Kritchevsky SB, Glynn NW. [Higher Striatal Dopamine is Related With Lower Physical Performance Fatigability in Community-Dwelling Older Adults](#). J Gerontol A Biol Sci Med Sci. 2024 Nov 1;79(11):glae209. doi: 10.1093/gerona/glae209. PMID: 39208421; PMCID: PMC11447735.
33. Distefano G, Harrison S, Lynch J, Link TM, Kramer PA, Ramos SV, Mau T, Coen PM, Sparks LM, Goodpaster BH, Cawthon PM, Cauley JA, Lane NE. [Skeletal Muscle Composition, Power, and Mitochondrial Energetics in Older Men and Women With Knee Osteoarthritis](#). Arthritis Rheumatol. 2024 Dec;76(12):1764-1774. doi: 10.1002/art.42953. Epub 2024 Aug 22. PMID: 39016102; PMCID: PMC11605275.

## 2025

34. Ubaida-Mohien C, Moaddel R, Spendiff S, MacMillan NJ, Filion ME, Morais JA, Candia J, Fitzgerald LF, Taivassalo T, Coen PM, Ferrucci L, Hepple RT. [Serum Proteomic and Metabolomic Signatures of High Versus Low Physical Function in Octogenarians](#). Aging Cell. 2025 Mar 10;24(5):e70002. doi: 10.1111/accel.70002. Epub ahead of print. PMID: 40059508; PMCID: PMC12073904.
35. Gay EL, Coen PM, Harrison S, Garcia RE, Qiao YS, Goodpaster BH, Forman DE, Toledo FGS, Distefano G, Kramer PA, Ramos SV, Molina AJA, Nicklas BJ, Cummings SR, Cawthon PM, Hepple RT, Newman AB, Glynn NW. [Sex differences in the association between skeletal muscle energetics and perceived physical fatigability: the Study of Muscle, Mobility and Aging \(SOMMA\)](#). Geroscience. 2025 Apr;47(2):1999-2013. doi: 10.1007/s11357-024-01373-z. Epub 2024 Oct 22. PMID: 39436549; PMCID: PMC11979008.
36. Garcia RE, Newman AB, Johnson E, Qiao YS, Cawthon PM, Nicklas BJ, Goodpaster BH, Glynn NW. [Using Wearable Devices to Examine the Associations of Sedentary Behavior with Perceived and Performance Fatigability Among Older Adults: The Study of Muscle, Mobility and Aging \(SOMMA\)](#). Sensors (Basel). 2025 Apr 25;25(9):2722. doi: 10.3390/s25092722. PMID: 40363161; PMCID: PMC12074308.
37. Phang HJ, Bergstrom J, Atayee RS, Hart LA, Cawthon PM, Blackwell T, Kramer PA, Distefano G, Kershaw EE, Cummings SR, Molina AJA. [Mito-Modulatory Medication Use and Skeletal Muscle Bioenergetics Among Older Men and Women: The Study of Muscle, Mobility, and Aging](#). J Gerontol A Biol Sci Med Sci. 2025 May 5;80(6):glaf063. doi: 10.1093/gerona/glaf063. PMID: 40127000; PMCID: PMC12128851.
38. Thompson AC, Mansfield T, Johnson E, Cawthon PM, Strotmeyer ES, Williamson JD, Cummings S, Mau T, Kritchevsky SB. [Relationship of Multiple Sensory Impairments With Physical Performance in Older Adults in the Study of Muscle, Mobility and Aging](#). J Gerontol A Biol Sci Med Sci. 2025 May 5;80(6):glaf065. doi: 10.1093/gerona/glaf065. PMID: 40151944; PMCID: PMC12104803.
39. Yeo RX, Mau T, Ross ZM, Edenhoffer NP, Liu J, Barnes HN, Lui LY, Adkins JN, Sanford JA, Seldin MM, Viesi CH, Zhou M, Gregory HL, Toledo FGS, Stefanovic-Racic M, Lyles M, Wood AN, Mattila PE, Blakley EA, Miljkovic I, Cawthon PM, Newman AB, Kritchevsky SB, Cummings SR, Goodpaster BH, Justice JN, Kershaw EE, Sparks LM. [Investigating the role of adipose tissue in mobility and aging: design and methods of the Adipose Tissue ancillary to the Study of Muscle, Mobility, and](#)

[Aging \(SOMMA-AT\)](#). J Gerontol A Biol Sci Med Sci. 2025 May 5;80(6):glaf015. doi: 10.1093/gerona/glaf015. PMID: 39886989.

40. Kim KM, Lui LY, Mau T, Coen PM, Cummings SR. [Associations of Elevated Red Cell Distribution Width \(RDW\) with Decreased Physical and Cognitive Function in Older Adults, and The Potential Mediation by Mitochondrial Energetics: The Study of Muscle, Mobility and Aging \(SOMMA\)](#). Aging Dis. 2025 May 15. doi: 10.14336/AD.202. Epub ahead of print. PMID: 40423638.
41. Coen PM, Yi F, Lui LY, Distefano G, Ramos SV, Goodpaster BH, Cawthon PM, Hepple RT, Kritchevsky SB, Cummings SR, Tranah GJ, Newman AB, DeLany JP. [Muscle Mitochondrial Respiration and Cardiorespiratory Fitness Contribute to Slower Walking Speed of Older Individuals Who Identify as Black](#). Aging Cell. 2025 Jun;24(6):e70040. doi: 10.1111/accel.70040. Epub 2025 Mar 27. PMID: 40495340; PMCID: PMC12151876.
42. Gay EL, Rosano C, Coen PM, Bohnen N, Huppert T, Qiao YS, Glynn NW. [Cerebral Metabolic Rate of Oxygen and Accelerometry-Based Fatigability in Community-Dwelling Older Adults](#). Aging Cell. 2025 Jun 13;24(8):e70121. doi: 10.1111/accel.70121. Epub ahead of print. PMID: 40512814; PMCID: PMC12341810.
43. Chahine LM, Rosso A, Troidl I, Ganguli M, Newman A, Cummings S, Studenski S, Lopresti B, Royse S, Huppert T, Redfern M, Sparto PJ, Bohnen NI, Rosano C. [Nigrostriatal dopaminergic neurotransmission and resilience to peripheral systemic risk factors for gait slowing upon transition to uneven surfaces in older adult](#). Aging Brain. 2025 Jun 20;8:100143. doi: 10.1016/j.nbas.2025.100143. PMID: 40606490; PMCID: PMC12221426.
44. Heilmann NZ, Freeland KS, Garcia RE, Glynn NW, Roe LS, Yu T, Sekel NM, Koltun KJ, Guerriere KI, Hughes JM, Nindl BC, Weaver AA, Caserotti P, Cawthon PM, Coen PM, Newman AB, Cauley JA, Strotmeyer ES. [Association of cardiorespiratory fitness with HR-pQCT bone parameters in older adults: the Study of Muscle, Mobility and Aging \(SOMMA\)](#). Osteoporos Int. 2025 Aug;36(8):1469-1480. doi: 10.1007/s00198-025-07485-2. Epub 2025 Jun 12. PMID: 40504257; PMCID: PMC12353959.
45. Rosso AL, Baillargeon EM, Bohnen NI, Lopresti BJ, Huppert TJ, Chahine LM, Jacobsen E, Rosano C. [Nigrostriatal dopaminergic integrity in relation to prefrontal cortex activity and gait performance during dual-task walking in older adults](#). J Gerontol A Biol Sci Med Sci. 2025 Aug 23;80(9):glaf152. doi: 10.1093/gerona/glaf152. PMID: 40668215; PMCID: PMC12374793.
46. Ahn C, Tamburini I, Sanford JA, Zhou M, Gamie F, Yeo RX, Viesi CH, Pino M, Whytock KL, Oberlin LE, Mau T, Adkins JN, Justice JN, Wood AN, Ross ZM, Piehowski PD, Hutchinson Bunch CM, Erickson KI, Toledo FGS, Lane NE, Cawthon PM, Newman AB, Kritchevsky SB, Cummings SR, Goodpaster BH, Kershaw EE, Seldin MM, Sparks LM. [Subcutaneous adipose tissue-secreted proteins as endocrine regulators of physical and cognitive function in older adults](#). Mol Metab. 2025 Sep;99:102213. doi: 10.1016/j.molmet.2025.102213. Epub 2025 Jul 15. PMID: 40675551; PMCID: PMC12309492.
47. Erickson ML, Blackwell TL, Garcia RE, Mau T, Cawthon PM, Cummings SR, Farsijani S, Sparks LM, Noone J, Glynn NW, Newman AB, Esser KA. [Rest Activity Rhythms and Their Association with Cardiorespiratory Fitness and Walking Energetics in Older Adults: Study of Muscle, Mobility, and Aging](#). Med Sci Sports Exerc. 2025 Sep 1;57(9):1886-1896. doi: 10.1249/MSS.0000000000003730. Epub 2025 Apr 18. PMID: 40249906; PMCID: PMC12321335.

48. Chahine L, Rosso AL, Troidl I, Ganguli M, Newman AB, Lopresti BJ, Allen K, Royse SK, Mosovsky S, Ratner E, Dholakia G, Bohnen NI, Rosano C. [Features of Prodromal Parkinson Disease and Dopaminergic Neurotransmission in Community-Dwelling Older Adults](#). *Neurology*. 2025 Sep 23;105(6):e214037. doi: 10.1212/WNL.0000000000214037. Epub 2025 Aug 29. PMID: 40882172; PMCID: PMC12396634.
49. Karere GM, Hsu FC, Hepple RT, Coen PM, Cummings S, Newman AB, Glynn NW, Sparks L, Lane NE, Xu J, Wagner N, Li G, Chan J, Cox LA, Kritchevsky SB. [MicroRNA signatures of cardiorespiratory fitness \(VO2peak\) in older adults: Insights from the study of muscle, mobility, and aging](#). *J Gerontol A Biol Sci Med Sci*. 2025 Nov 6;80(12):glaf159. doi: 10.1093/gerona/glaf159. PMID: 40680233; PMCID: PMC12596489.

## Accepted Manuscript

**2025**

50. Hung A, Glynn NW, Garcia RE, Hetherington-Rauth M, Cawthon PM, Forman DE, Johnson E, Rubin DS. Determining Reduced Functional Capacity in Older Adults Using Research-Grade Wearable Accelerometers: A Secondary Analysis of the Study of Muscle, Mobility and Aging. *British Journal of Anaesthesia*. Accepted October 2025.

## Published Commentary

**2024**

51. Cummings SR, Coen PM, Ferrucci L. [The cellular bases of mobility from the Study of Muscle, Mobility and Aging \(SOMMA\)](#). *Aging Cell*. 2024 Jun;23(6):e14129. doi: 10.1111/accel.14129. Epub 2024 Mar 1. PMID: 38429931; PMCID: PMC11166358.

## Published Editorial

**2025**

1. Marcinek DJ, Ferrucci L. [Reduced oxidative capacity of skeletal muscle mitochondria IS a fundamental consequence of adult ageing](#). *J Physiol*. 2025 Jan;603(1):17-20. doi: 10.1113/JP285040. Epub 2024 Jul 6. PMID: 38970753; PMCID: PMC11701208. [Response: Marcinek DJ, Ferrucci L. [Marcinek and Ferrucci response to Lanza et al.](#) *J Physiol*. 2025 Jan;603(1):25. doi: 10.1113/JP286696. Epub 2024 Jul 6. PMID: 38970772.]