



### III. Publications

#### A. Papers in Referred Journals

1. **Pereira HM**, Hunter SK. Cognitive challenge as a probe to expose sex- and age-related differences during static contractions. *Frontiers in Physiology*, 2023; 14:1166218 [DOI: 10.3389/fphys.2023.1166218](https://doi.org/10.3389/fphys.2023.1166218) (Impact factor: 4.0)
2. Lino TB, Scarmagnan GS, Sobrinho-Junior SA, Tessari GMF, Gonçalves GH, **Pereira HM**, Christofoletti G. Impact of Using Smartphone While Walking or Standing: A Study Focused on Age and Cognition. *Brain Sciences*, 2023; 13 (7), 987. [DOI: 10.3390/brainsci13070987](https://doi.org/10.3390/brainsci13070987) (impact factor: 3.3)
3. Chow AM, Shin J, Wang H, Kellawan JM, **Pereira HM**. Influence of transcranial direct current stimulation dosage and associated therapy on motor recovery post-stroke: A systematic review and meta-analysis. *Frontiers in Aging Neuroscience*, 2022; 14: 821915. [DOI: 10.3389/fnagi.2022.821915](https://doi.org/10.3389/fnagi.2022.821915). (Impact Factor: 4.8)
4. Lopes TR, **Pereira HM**, Bittencourt LRA, Silva BM, How Much does sleep deprivation impairs exercise endurance? A Systematic Review and Meta-analysis. *European Journal of Sport Science*, 2022; 23(7): 1279-1292. DOI: [10.1080/17461391.2022.2155583](https://doi.org/10.1080/17461391.2022.2155583) (Impact factor: 3.9)
5. Peterson JA, Bemben MG, Larson RD, **Pereira H**, Crowson HM, Black CD. Symptomatic but not Asymptomatic COVID-19 Impairs Conditioned Pain Modulation in Young Adults. *The Journal of Pain*, 2022; 23 (11): 1923-1932. DOI: [10.1016/j.jpain.2022.06.010](https://doi.org/10.1016/j.jpain.2022.06.010). (Impact Factor: 5.6)
6. Lopes TR, **Pereira HM**, Silva BM. Perceived exertion: revisiting the history and updating the neurophysiology and the practical applications. *International Journal of Environmental Research and Public Health*, 2022; 19(21), 14439. DOI: [10.3390/ijerph192114439](https://doi.org/10.3390/ijerph192114439)
7. Freitas EDS, Miller, RM, Heishman AD, Aniceto RR, Larson RD, **Pereira HM**, Bemben DA, Bemben MG. The perceptual responses of multiple sclerosis patients to blood flow restriction versus traditional resistance exercise. *Physiology & Behavior*, 2021; 229:113219 [DOI.org/10.1016/j.physbeh.2020.113219](https://doi.org/10.1016/j.physbeh.2020.113219). (Impact Factor: 2.9)
8. Miller RM, Freitas EDS, Heishman AD, Peak KM, Buchanan SR, Kellawan JM, **Pereira HM**, Bemben DA, Bemben MG. Muscle Performance Changes with Age in Active Women. *International Journal of Environmental Research and Public Health*, 2021; 18(9):4477. [DOI: 10.3390/ijerph18094477](https://doi.org/10.3390/ijerph18094477).
9. **Pereira HM**, Larson RD, Bemben DA. Menstrual Cycle Effects on Exercise-Induced Fatigability. *Frontiers in Physiology*, 2020; 11: 517. [DOI: 10.3389/fphys.2020.00517](https://doi.org/10.3389/fphys.2020.00517). (Impact Factor: 4.0)
10. **Pereira HM**, Menstrual cycle and vascular function: what is the effect size? *Journal of Applied Physiology*, 2020; 129(5): 1122-1135. [DOI: 10.1152/jappphysiol.00809.2020](https://doi.org/10.1152/jappphysiol.00809.2020) (Impact Factor: 3.6)
11. **Pereira HM**, Dobbs PD. Pod-mod vs. Conventional e-cigarettes, physiological implications for regulatory policies, *Journal of Applied Physiology*, 2020; 128: 1059-1062. DOI: [doi.org/10.1152/jappphysiol.00131.2020](https://doi.org/10.1152/jappphysiol.00131.2020). (Impact Factor: 3.6)
12. Dobbs PD, **Pereira HM**. Differences in regulatory policies may influence the e-cigarette safety analysis. *Journal of Physiology*, 2020; <https://physoc.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1113%2FJFP279270&file=tjp14167-sup-0001-Comments.pdf> (Impact Factor: 6.4)
13. **Pereira HM**, de Lima FF, Silva BM, Kohn AF. Sex differences in fatigability after ischemic preconditioning of non-exercising limbs. *Biology of Sex Differences*, 11: 59, 2020. [DOI: 10.1186/s13293-020-00338-z](https://doi.org/10.1186/s13293-020-00338-z). (Impact Factor: 6.0)
14. **Pereira HM**, Schlinder-DeLap B, Keenan KG, Negro F, Farina D, Hyngstrom AS, Nielson KA, Hunter SK. Oscillations in neural drive and age-related reductions in force steadiness with a cognitive challenge. *Journal of Applied Physiology*, 2019;126 (4):1056-65 [DOI: doi.org/10.1152/jappphysiol.00821.2018](https://doi.org/10.1152/jappphysiol.00821.2018) (Impact Factor: 3.6)
15. **Pereira HM**, Schlinder-Delap B, Nielson KA, Hunter SK. Force steadiness during a cognitively challenging motor task is predicted by executive function in older adults. *Frontiers in Physiology*, 2018; 9:1316 [DOI: 10.3389/fphys.2018.01316](https://doi.org/10.3389/fphys.2018.01316). (Impact Factor: 4.0)

16. Senefeld J, **Pereira HM**, Elliott N, Yoon T, Hunter SK. Sex Differences in Mechanisms of Recovery after Isometric and Dynamic Fatiguing Tasks. *Medicine & Science in Sports & Exercise*, 2018; 50 (5): 1070-1083. [DOI: 10.1249/MSS.0000000000001537](https://doi.org/10.1249/MSS.0000000000001537) (Impact factor: 4.1)
17. Schiavoni D, Pereira LM, **Pereira HM**, Cyrino ES, Cardoso JR. Effect of traditional resistive training on blood pressure in normotensive older adults: systematic review of randomized controlled trials with meta-analyses. *Brazilian Journal of Geriatrics and Gerontology (Revista Brasileira de Geriatria e Gerontologia)*, 2017; 20 (4) 571-581. [DOI: 10.1590/1981-22562017020.160181](https://doi.org/10.1590/1981-22562017020.160181)
18. Hunter SK, **Pereira HM**, Keenan KG. The aging neuromuscular system and motor performance. *Journal of Applied Physiology*, 2016; 121 (4): 982-995. [DOI: doi.org/10.1152/jappphysiol.00475.2016](https://doi.org/10.1152/jappphysiol.00475.2016). (impact factor: 3.6)
19. **Pereira HM**, Spears VC, Schlinder-Delap Bonnie, Yoon T, Nielson KA, Hunter SK. Age and sex differences in steadiness of elbow flexor muscles with imposed cognitive demand. *European Journal of Applied Physiology*, 2015; 115 (6): 1367-1379. [DOI: 10.1007/s00421-015-3113-0](https://doi.org/10.1007/s00421-015-3113-0) (Impact factor 3.3).
20. **Pereira HM**, Spears VC, Schlinder-Delap Bonnie, Yoon T, Harkins A, Nielson KA, Hoeger Bement M, Hunter SK. Sex Differences in Arm Muscle Fatigability With Cognitive Demand in Older Adults. *Clinical Orthopaedics and Related Research*, 2015; 473 (8): 2568-2577. [DOI: 10.1007/s11999-015-4205-1](https://doi.org/10.1007/s11999-015-4205-1) (Impact factor: 4.2)
21. Keller-Ross ML, **Pereira HM**, Pruse J, Yoon T, Schlinder-Delap B, Nielson KA, Hunter SK. Stress-induced increase in muscle fatigability of young men and women is predicted by strength but not voluntary activation. *Journal of Applied Physiology*, 2014; 116(7): 767-778. [DOI: doi.org/10.1152/jappphysiol.01129.2013](https://doi.org/10.1152/jappphysiol.01129.2013). (Impact factor: 3.6)
22. Vandennoven ML, **Pereira HM**, Yoon T, Stevens A, Nielson KA, Hunter SK. Motor Variability during Sustained Contractions Increases with Cognitive Demand in Older Adults. *Frontiers in Aging Neuroscience*, 2014; 6: 97. [DOI: 10.3389/fnagi.2014.00097](https://doi.org/10.3389/fnagi.2014.00097) (Impact factor: 4.8)
23. Comel JC, Junior JPB, Chini EP, **Pereira HM**, Carregaro RL, Cardoso JR. Comparison of the electrical activity in upper trapezius and wrist extensor muscles during two typewriting conditions. *Physical Therapy in Movement*, 2014; 27: 271-279. <http://dx.doi.org/10.1590/0103-5150.027.002.AO12>
24. **Pereira HM**, Keller ML. Understanding the mechanisms of neuromuscular fatigue with paired-pulse stimulation. *Journal of Physiology*, 2012; 590 (Pt 1):5-6. [DOI: 10.1113/jphysiol.2011.219204](https://doi.org/10.1113/jphysiol.2011.219204). (Impact Factor: 6.4)
25. Pereira, LM, Obara K, Dias JM, Menacho MO, Guariglia DA, Schiavoni D, **Pereira HM**, Cardoso JR. Comparing the Pilates method with no exercise or lumbar stabilization for pain and functionality in patients with chronic low back pain: Systematic review and meta-analysis. *Clinical Rehabilitation*, 2012; 26: 10-20. [DOI:10.1177/0269215511411113](https://doi.org/10.1177/0269215511411113). (Impact Factor: 3.9)
26. Nunes V, Santos RV, Wodewotzky F, **Pereira HM**, Leme L, Ejnisman B, Andreoli CV. Assessment of deficit in medial rotation and posterior shortening of the shoulder in professional basketball players. *Brazilian Journal of Sports Medicine (revista brasileira de medicina do esporte)*, 2012; 18: 171-175. [doi.org/10.1590/S1517-86922012000300007](https://doi.org/10.1590/S1517-86922012000300007).
27. **Pereira HM**, Menacho MO, Takahashi RH, Cardoso JR. Handgrip Strength Evaluation on Tennis Players Using Different Recommendations. *Brazilian Journal of Sports Medicine (revista brasileira de medicina do esporte)*, 2011; 17(3):184-88. <http://dx.doi.org/10.1590/S1517-86922011000300007>
28. Guariglia DA, **Pereira HM**, Pereira LM, Silva DA, Cyrino ES, Cardoso JR. Time-of-day effect on hip flexibility associated with the modified sit-and-reach test in males. *International Journal of Sports Medicine*, 2011; 18: 247-51. [DOI: 10.1055/s-0031-1283182](https://doi.org/10.1055/s-0031-1283182). (Impact Factor: 2.5)
29. Menacho MO, **Pereira HM**, Oliveira BIR, Toyohara MT, Cardoso JR. The peroneus reaction time during sudden inversion test: Systematic review. *Journal of Electromyography & Kinesiology*, 2010; 20:559-65. [DOI:10.1016/j.jelekin.2009.11.007](https://doi.org/10.1016/j.jelekin.2009.11.007) (Impact factor: 2.5)
30. **Pereira HM**, Nowotny AH, Santos ABN, Cardoso JR. Electromyography activity of knee stabilizer muscles during six different balance board stimuli after anterior cruciate ligament surgery. *Electromyography and Clinical Neurophysiology*. 2009; 49: 117-24. [PMID: 19400407](https://pubmed.ncbi.nlm.nih.gov/19400407/)
31. **Pereira HM**, de Campos TF, Santos MB, Cardoso JR, Garcia M de C, Cohen M. Influence of knee position on the postural stability index registered by the Biodex stability system. *Gait & Posture*. 2008; 28: 668-72. [DOI:10.1016/j.gaitpost.2008.05.003](https://doi.org/10.1016/j.gaitpost.2008.05.003) (Impact factor: 2.4)

## B. Conference Proceedings/ Abstracts

1. Matney JE., Buelow AA., Skillett S, Song J, Mixon C, Black CD, **Pereira HM**, Sprick, JD, Kellawan JM. (2022). Does inhibition of cytochrome P450 2C9 alter cerebral hemodynamics at rest or during simulated mild hypovolemia? American Physiology Summit, 2022. Long Beach, CA.
2. Hubbard C, Curiel A, Larson RD, Kellawan JM. **Pereira HM**, Black CD. The Role of Oxygen Desaturation and Mitochondrial Function on Time-to-Task Failure. Medicine & Science in Sports & Exercise. 2022, Denver, CO.
3. **Pereira HM**, Keller NR, Nolan M, Gigliotti A, Acuna SM, Kellawan JM. Fatigability of The Hand Muscles In Presence Of Cognitive Challenge. Medicine & Science in Sports & Exercise. 2022, Denver, CO.
4. Black CD, Peterson JA, Bembem MG, Larson RD, **Pereira HM**, Crowson HM. Symptomatic COVID-19 infections impairs conditioned pain modulation but not exercise-induced hypoalgesia. Annual meeting of the American College of Sports Medicine, 2022, San Diego.
5. Freitas EDS, Miller RM, Heishman AD, Peak KM, Bembem DA, Larson R, **Pereira HM**, Bembem MG. The Physiological Responses of Multiple Sclerosis Patients to Blood Flow Restriction Versus Traditional Resistance Exercise. Annual meeting of the American College of Sports Medicine, 2021, Virtual event.
6. Miller RM, Heishman AD, Freitas EDS, Buchanan SR, Kaur J, Brown BS, Peak KM, Norman JN, Joniak KE, Kellawan JM, **Pereira HM**, Bembem DA, Bembem MG. Critical Ages For Changes In Isometric Force Production In Women Aged 20 To 89 Years. Annual meeting of the American College of Sports Medicine, 2020, San Francisco. Medicine & Science in Sports & Exercise, 2020 v. 52, n. 5. p. S438.
7. Freitas EDS, Miller RM, Heishman AD, Kaur J, Peak KM, Combs C, Bembem DA, Larson RD, **Pereira HM**, Bembem MG. The Perceptual Responses Of Multiple Sclerosis Patients To Traditional Versus Blood Flow Restriction Resistance Exercise. Annual meeting of the American College of Sports Medicine, 2020, San Francisco. Medicine & Science in Sports & Exercise, 2020 v. 52, n.5 p S499
8. **Pereira HM**, SILVA, BM, KOHN AF. Fatigability of Plantar Flexor Muscles After Remote Ischemic Preconditioning. In: Annual meeting of the American College of Sports Medicine, 2018, Minneapolis. MEDICINE & SCIENCE IN SPORTS & EXERCISE, 2018. v. S50. p. S364.
9. **Pereira HM**. Esser TJ, Schlinder-Delap B, Senefeld J, Sundberg CW, Deering R, Hunter SK. Cognitive Demand Decreases Steadiness and Dexterity with Aging. Annual Meeting of the American College of Sports Medicine, 2015, San Diego, USA. Medicine & Science in Sports & Exercise, 2015; 46: S480.
10. Deering R, Senefeld J, Pashibin T, **Pereira HM**, Hoeger Bement M, Eickmeyer S, Hunter SK. Fatigability and Steadiness of The Trunk Flexor Muscles in Young, Healthy Adults. Annual Meeting of the American College of Sports Medicine, 2015, San Diego, USA. Medicine & Science in Sports & Exercise, 2015; 46: S156.
11. **Pereira HM**, Schlinder-Delap B, Yoon T, Keenan K, Hunter SK. Cognitive Stress and Visual Gain Affects Force Fluctuations at Low Forces. Annual Meeting of the American College of Sports Medicine, 2014, Orlando, USA. Medicine and Science in Sports and Exercise, 2014; 46: S521.
12. **Pereira HM**, Schlinder-Delap B, Negro F, Farina D, Hynstrom AS, Keenan K, Hunter SK. Steadiness and motor unit activity of the elbow flexor muscles with cognitive demand. Annual Meeting of the Society for Neuroscience, 2014, Washington DC, USA. Neuroscience Meeting Planner, 2014: 160.19 / GG8.
13. Elliott, N, Senefeld J, **Pereira HM**, Yoon T, Harmer AR, Hunter SK. Sex Differences and Supraspinal Fatigue of the Knee Extensor Muscles in Young Adults. Annual Meeting of the American College of Sports Medicine, 2013, Indianapolis, USA. Medicine and Science in Sports and Exercise, 2013: 45: S79.
14. Senefeld J, Elliott N, **Pereira HM**, Yoon T, Harmer AR, Hunter SK. Sex Differences in Fatigue Following Dynamic Contractions of Knee Extensor Muscles. Annual Meeting of the American College of Sports Medicine, 2013, Indianapolis, USA. Medicine and Science in Sports and Exercise, 2013; 45: S304.
15. **Pereira HM**, Spears VC, Schlinder-Delap B, Yoon T, Nielson KA, Hunter SK. Sex differences in motor fatigue for old adults in response to increased cognitive demand. Annual Meeting of the Society for Neuroscience, 2013, San Diego, USA. Neuroscience Meeting Planner, 2013; 89.28 / GGG13.

16. **Pereira HM**, Spears VC, Schlinder-Delap B, Yoon T, Hunter SK. Cognitive demand increases muscle fatigability of the elbow flexor muscles in young and old adults. Annual Meeting of the American College of Sports Medicine, 2012, San Francisco, USA. *Medicine and Science in Sports and Exercise*, 2012; 44: S127.
17. Vanden Noven ML, **Pereira HM**, Yoon TJ, Stevens A, Nielson KA, Hunter SK. Influence of age and cognitive demand on motor output variability and fatigability during sustained isometric contractions. Annual Meeting of the Society for Neuroscience, 2012, New Orleans, USA. *Neuroscience Meeting Planner*, 2012; 789.24 / TT7.
18. Hyngstrom A, Kuhnen H; **Pereira HM**; Keenan K; Hunter SK; Schmit B. Stroke related changes in neuromuscular fatigue. Presented at 117th ICB Seminar Motoneurons: Their inputs and outputs, Warsaw, Poland, Sept 05-06, 2011.
19. **Pereira HM**, Cardoso JR, Nowotny AH. Santos, ABN, Rabello LN, Jorge DA. Electromyography Activity After Anterior Cruciate Ligament Reconstruction During Neuromuscular Exercises. XXV International Symposium of Biomechanics in Sports, Ouro Preto, Brazil, 2007. *Proceedings of the XXV International Symposium on Biomechanics in Sports XXVth*, 2007: 226-229.
20. **Pereira HM**, Saccol MF, Costa FC, Kuraoka B, Leme L, Ejnisman B, Cohen M. Electromyography in pectoralis major, triceps brachialis and anterior deltoid during the bench press exercise XXV International Symposium of Biomechanics in Sports, Ouro Preto, Brazil, 2007. *Proceedings of the XXV International Symposium on Biomechanics in Sports XXVth*, 2007: 124-124.
21. **Pereira HM**, Campos TF, Cardoso JR, Santos MB, Garcia MC, Cohen M. Lower extremity position influence on the postural stability index registered by the biodex stability system. XXV International Symposium of Biomechanics in Sports, Ouro Preto, Brazil, 2007. *Proceedings of the XXV International Symposium on Biomechanics in Sports XXVth*, 2007: 663.
22. **Pereira HM**, Cardoso JR, Ejnisman B, Cohen M. Activity Of Serratus Anterior, Upper and Lower Trapezius During Arm Abduction In Multidirectional Instability, XXV International Symposium of Biomechanics in Sports, Ouro Preto, Brazil, 2007. *Proceedings of the XXV International Symposium on Biomechanics in Sports XXVth*, 2007: 129.

## IV. Research Support

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### In progress

**Sponsor:** Dodge Family College of Arts and Sciences - the University of Oklahoma (OU) **2022-2023**

**Title:** Influence of cognitive function on force steadiness

**Total Cost:** \$7,000

### Completed

**Sponsor:** Office of the Vice President for Research, OU - Junior Faculty Fellowship **2022-2023**

**Title:** Force steadiness during a cognitively stressful task (Primary Investigator)

**Total Cost:** \$8,286

**Sponsor:** Office of the Vice President for Research, OU - Junior Faculty Fellowship **2019-2022**

**Title:** Mechanisms of Fatigability during cognitively stressful tasks in older adults (Primary Investigator)

**Total Cost:** \$7,967

## VI. Reviewer Ad-Hoc

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Medicine & Science in Sports & Exercise, Exercise Sports Science Reviews, Experimental Gerontology, Journal of Cachexia Sarcopenia and Muscle, Experimental Brain Research, Neuroscience Letters.

### **Total number of manuscript reviewed/year for peer reviewed journals**

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2018: 10

2019: 12

2020: 11

2021: 8

2022: 10

## VII. Professional Activities and Service

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**Editorial board:** Medicine and Science in Sports & Exercise

**2022-present**

**Reviewer Editor:** Frontiers in Clinical and Translational Physiology (Frontiers in Physiol) **2021-2022**

## VIII. Teaching

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1. Neuromuscular Exercise Physiology (HES 6843, 3 credit hours)
2. Statistical Applications in Health and Exercise Science (HES 5963, 3 credit hours)
3. Physiology of Exercise Laboratory (HES 4833, 3 credit hours)
4. Capstone (HES 4953, 3 credit hours)
5. Seminar in Health and Exercise Science (HES6970, 1 credit hour)

## IX. Mentored Research

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### Current graduate students

1. Stephan Acuna, PhD student, Department of Health and Exercise Science, University of Oklahoma (2021- present)
2. Andrea Gigliotti, PhD student, Department of Health and Exercise Science, University of Oklahoma (2022- present)

### Past graduate students

1. Rebecca Bertholf, MS student, Department of Health and Exercise Science, University of Oklahoma (2019-2021)
2. Alan-Michael Chow, MS student, Department of Health and Exercise Science, University of Oklahoma (2019-2021)
3. Jeonghwa Shin, PhD student, Department of Health and Exercise Science, University of Oklahoma (2019-2021)
4. Aspen Ranz, MS student, Department of Health and Exercise Science, University of Oklahoma (2018-2020)