

Curriculum Vitae

Name: Julia Matzenbacher dos Santos
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Education and Training**Undergraduate**

1999-2003	Methodist University, Porto Alegre, Brazil	B.Sc. Exercise Science and B.A. Physical Education
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Graduate

2005-2009	University of Porto, Faculty of Sports Porto, Portugal	Ph.D. Physical Activity and Health- Sports Biochemistry Department
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Postgraduate

2009-2012	Wayne State University, Detroit, MI	Postdoctoral Fellow, Anatomy and Cell Biology
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Appointments and Positions**Academic**

2006-2008	University of Porto, Sports Faculty, Porto Portugal	Adjunct/ Teaching Assistant
2012-2013	Wayne State University, School of Medicine, Detroit, MI	Full-time Faculty/Research Scientist
2016-2018	Henry Ford College, Biology Department, Dearborn, MI	Part-time Adjunct/Professor
2018-2022	Fairmont State University, College of Education, Health and Human Performance, Fairmont, WV	Full-time Faculty/Assistant Professor
2022- present	University of Pittsburgh, Health Promotion and Development, Pittsburgh, PA	Full-time Faculty/Assistant Professor

Non-Academic

2002-2003	Atlas Gym, Porto Alegre, Brazil	Personal Trainer
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2003

Instituto de Educacao High School Part-time Teacher/Physical Education
Porto Alegre, Brazil

Membership in Professional and Scientific Societies

2021-2023	Research Committee, Mid Atlantic American College of Sports Medicine
2008-2022	Member, American College of Sports Medicine
2012-2013	Member, Society for Free Radical Biology and Medicine
2009-2013	Member, The Association for Research in Vision and Ophthalmology
2009-2013	Member, International Society for Eye Research
2006-2008	Member, European College of Sports Science

Publications

Refereed Articles

^a student authors Available in: <http://scholar.google.com/citations?user=qwwDCqsAAAAJ&hl=en>

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1. **Santos, J. M. dos,** & Heck, T. G. (2022). Oxidative stress in type 2 diabetes and the impact of exercise: from mitochondria to glucose management in skeletal muscle. *Revista Contexto & Saúde*, 22(45), e11425. <https://doi.org/10.21527/2176-7114.2022.45.11425>
2. Ayman M. Mahmoud, Fiona L. Wilkinson, Adam P. Lightfoot, **Julia M. Dos Santos**, Mansur A. Sandhu (2021). The Role of Natural and Synthetic Antioxidants in Modulating Oxidative Stress in Drug-Induced Injury and Metabolic Disorders 2020, *Oxidative Medicine and Cellular Longevity*, vol. 2021, Article ID 9892021, 3 pages, 2021. <https://doi.org/10.1155/2021/9892021>.
3. [Clark N^a, Ross S., Reneau J., Matzenbacher dos Santos J. \(2021\) The Effect of Aerobic Exercise on Depression and Academic Performance of University Students with Autism Spectrum Disorder: The role of exercise in autism. *Revista Contexto e Saude*. 21, n. 43, p. 156-164, 21\(43\), 156–164. <https://doi.org/10.21527/2176-7114.2021.43.11295>](#)
4. Ribeiro, S. A. B., Lima, K. L. L., **dos Santos, J. M.**, Cagnini, D. Q., Guimarães, I. G., do Amaral, A. V. C., & de Oliveira, D. S. (2021). Early type 2 diabetes and obesity does not affect eicosanoids level and renal morphology in a rat model. *Brazilian Journal of Development*, 7(8), 85230-85249.
5. Jones, J.^a, Reneau, P., & **Dos Santos, J. M.** (2021). Metabolically healthy obese vs. Metabolic syndrome - The crosslink between nutritional exposure to bisphenols and physical exercise. *Medical hypotheses*, 149, 110542. <https://doi.org/10.1016/j.mehy.2021.110542>
6. **Dos Santos JM,** Joiakim A, Kaplan DJ, Putt DA, Perez Bakovic G, Servoss SL, Rybicki BA, Dombkowski AA, Kim H (2021). Levels of plasma glycan-binding auto-IgG biomarkers improve the accuracy of prostate cancer diagnosis. *Mol Cell Biochem*. 2020 Aug 20. doi: 10.1007/s11010-020-03876-7. Epub ahead of print. PMID: 32816187. <https://doi.org/10.21527/2176-7114.2021.43.11295>

7. **Santos J.** (2020). Oxidative Stress and the Biological and Chemical Process in Health. *Revista Contexto & Saúde*, 20(39), 4-5. <https://doi.org/10.21527/2176-7114.2020.39.4-5>
8. Skinner S^a., Wade M. ^a, Laccobaci C^a, Hutcherson R^a, **dos Santos JM.** (2020). The consumption of fruits as a potential alternative to accelerate the recovery process after high intensity exercise. *Revista Contexto e Saude*. 20(39), 41-48. <https://doi.org/10.21527/2176-7114.2020.39.41-48>
9. Silva de Oliveira D., **Matzenbacher dos Santos J**, do Prado KGG, Couto-Amaral A.V., Benite-Ribeiro SA (2020) Effects of type 2 diabetes mellitus induction and of moderate physical exercise on the hepatic metabolism and oxidative stress in Wistar rats. *Revista Contexto e Saude*. 20(39), 55-61. <https://doi.org/10.21527/2176-7114.2020.39.55-61>
10. Benite-Ribeiro SA, Lucas-Lima K^a, Jessica Jones^a, **Dos Santos, J. M** (2020). Transcription of mtDNA and dyslipidemia are ameliorated by aerobic exercise in type 2 diabetes. *Mol Biol Rep*. 2020 Aug 17. doi: 10.1007/s11033-020-05725-8. Epub ahead of print. PMID: 32804305.
11. Wade, M^a., Delawder, V., Reneau, P., **Dos Santos, J. M.** (2020). The effect of BPA exposure on insulin resistance and type 2 diabetes - The impact of muscle contraction. *Medical hypotheses*, 140, 109675. Advance online publication. <https://doi.org/10.1016/j.mehy.2020.109675>
12. **Dos Santos JM**, Tewari S, Mendes RH. (2019) The Role of Oxidative Stress in the Development of Diabetes Mellitus and Its Complications. *J Diabetes Res*. May 5;2019:4189813. doi: 10.1155/2019/4189813.
13. Mahmoud AM, Wilkinson FL, Sandhu MA, **Dos Santos JM**, Alexander MY (2019). Modulating Oxidative Stress in Drug-Induced Injury and Metabolic Disorders: The Role of Natural and Synthetic Antioxidants. *Oxid Med Cell Longev*. Jun 27;2019:3206401. doi: 10.1155/2019/3206401.
14. Aloï S^a., Ryan M, Reneau P., **Santos JM** (2019) The relationship of throwing velocity and 1 repetition maximum. *Portuguese Journal of Exercise Science. Issue 1, p64-71. 8p.*
15. Bogdanich H^a., Kiger J, **Santos JM.** (2019) The Physiology Effects of a Finnish Sauna on Aerobic Exercise in College-Aged Individuals. *Revista Contexto e Saude*. 19(37), 137–141. <https://doi.org/10.21527/2176-7114.2019.37.137-141>
16. Joiakim A.; **Santos JM**; Putt DA; Jurban M; Friedrich K; Kim H (2019) Bisphenol A (BPA) in liquid portions of canned foods obtained from domestic and Asian markets in the United States. *Environmental Disease 01:4-7*.
17. **Dos Santos JM**, Moreli ML, Oliveira DS, Benite-Ribeiro SA (2018). The role of mitochondrial DNA damage at skeletal muscle oxidative stress on the development of type 2 diabetes. *Mol Cell Biochem*. 449 (1), 251-255
18. **Santos JM**, Joiakim A, Putt DA, Taylor R, Kim H (2017). The role of soluble epoxide hydrolase in preeclampsia. *Medical Hypotheses* 108:81-85.
19. **Santos JM**; Putt DA; Jurban M; Joiakim A; Friedrich K; Kim H (2016) Differential BPA levels in sewage wastewater effluents from metro Detroit communities. *Environ Mon and Ass*. 188 (10), 585.
20. Benite-Ribeiro SA, Putt D, **Santos JM** (2016). The link between hypothalamic epigenetic modifications and long-term feeding control. *Appetite*. 104, 445-453.

21. Benite-Ribeiro SA, Putt D, **Santos JM** (2016). The effect of physical exercise on orexigenic and anorexigenic peptides and its role on long-term feeding control *Med Hypotheses* 93:30-3.
22. Benite-Ribeiro SA, Silva VV ^a, Lima K ^a, **Santos JM** (2016). Nutritional behavior accounts to blood pressure increase of high school students of Midwest Brazil. *Scientia Medica*. 26(4):ID24243
23. **Santos JM**, Moreli ML, Tewari S, Benite-Ribeiro SA (2015). The effect of exercise on skeletal muscle glucose uptake in type 2 diabetes: An epigenetic perspective. *Metabolism*. 64(12):1619-28.
24. **Santos JM**, Jurban M, Kim HS (2015). Could sewage epidemiology be a strategy to assess lifestyle and wellness of a large scale population? *Med Hypotheses*. Oct;85(4):408-11.
25. Benite-Ribeiro SA, **Santos JM**, Duarte JA (2015) Does high fat diet has the stress-like effect on animals?. *Int J Diabetes Clin Diagn*, 2: 112.
26. **Santos JM**, Tewari S, Benite-Ribeiro SA (2014) The effect of exercise on epigenetic modifications of PGC1: The impact on type 2 diabetes. *Med Hypotheses*. 82: 748-53.
27. **Santos JM**, Kowluru RA (2014). Posttranslational modification of mitochondria transcription factor A in impaired mitochondria biogenesis: implication in diabetic retinopathy and metabolic memory. *Exp Eye Res*. 121: 168-77.
28. Kowluru RA, Kowluru A, Veluthakal R, Mohammad G, Syed I, **Santos JM**, Mishra M (2014) TIAM-RAC1 signalling axis-mediated activation of NADPH oxidase-2 initiates mitochondrial damage in the development of diabetic retinopathy. *Diabetologia*. 57: 1047-56.
29. Kowluru, RA, Zhong Q, **Santos JM**, Thandampallayam M, Putt, D^a, Gierhart DL (2014) Beneficial effects of the nutritional supplements on the development of diabetic retinopathy. *Nutr Metab (Lond)*. 11:8.
30. Kowluru RA, **Santos JM**, Zhong Q (2014) SIRT1, a negative regulator of MMP-9 in diabetic retinopathy. *Invest Ophthalmol Vis Sci*, 3;55(9):5653-60.
31. **Santos JM**, Benite-Ribeiro SA, Queiroz G, Duarte JA (2014) The interrelation between aPKC and glucose uptake in skeletal muscle during contraction and insulin stimulation. *Cell Biochem Funct*; 32(8):621-4.
32. Ribeiro-Benite, SA, **Santos, JM**, Duarte, JA (2014) Moderate Physical Exercise attenuates the alteration of feeding behavior induced by social stress in female rats. *Cell Biochem Funct* 31:142-9.
33. Kowluru, RA, **Santos, JM**, Mishra, M (2013). Epigenetic modifications and the diabetic retinopathy. *Biom. Res. Inter*. 438:760-4
34. **Santos, JM**, Tewari, S, Lin, J ^a, Kowluru, R (2013) Interrelationship between MMP-9 and MMP-2 activity and mitochondrial dysfunction in the development of diabetic retinopathy. *Biochem Biophys Res Commun*. 438:760-4.
35. **Santos, JM**, Kowluru, RA (2013). Impaired transport of mitochondrial transcription factor and the metabolic memory phenomenon associated with the progression of diabetic retinopathy. *Diabetes Met Res and Rev*, 29(3): 204-13.
36. **Santos, JM**, Tewari, S, Kowluru, RA (2012). A compensatory mechanism protects retinal mitochondria from initial insult in diabetic retinopathy. *Free Radic Biol Med*, 53(9): 1729-37.

37. Tewari, S, Zhong, Q, **Santos, JM**, Kowluru, R. (2012) Mitochondria DNA replication and DNA methylation in the metabolic memory associated with continued progression of diabetic retinopathy. *Invest Ophthalmol Vis Sci*, 53:4881-4888.
38. Kowluru, RA, Zhong, Q, **Santos, JM** (2012). Matrix metalloproteinases in diabetic retinopathy: potential role of MMP-9. *Expert Opin Investig Drugs*, 21:797-805.
39. Tewari S, **Santos, JM**, Kowluru, R. (2012) Damage to the Mitochondrial DNA Replication Machinery and the Development of Diabetic Retinopathy. *Antioxid Redox Signal*, 17:492-504.
40. Kowluru, R.A., Mohammad, G., **Santos, J.M.**, Tewari, S., Zhong, Q. (2011) Interleukin-1 β and mitochondria damage and the development of diabetic retinopathy. *J Ocul Biol Dis Inform*, 4:3-9.
41. **Santos, JM**, Benite-Ribeiro, SA, Queiroz, G, Duarte, JA (2012). The effect of age on glucose uptake and GLUT1 and GLUT4 **expression** in rat skeletal muscle. *Cell Biochem Funct*, 30: 191-197.
42. **Santos, JM**, Kowluru, R (2011). Role of mitochondria biogenesis in the metabolic memory associated with the continued progression of diabetic retinopathy and its regulation by lipoic acid. *Invest Ophthalmol Vis Sci*, 52:8791-8798.
43. **Santos, JM**, Tewari, S, Kowluru, RA (2011). Mitochondria biogenesis and the development of diabetic retinopathy. *Free Radic Biol Med*, 51: 1849-60.
44. Kowluru, RA, Mohammad, G, **dos Santos, JM**, Zhong, Q (2011). Abrogation of MMP-9 protects against the development of diabetic retinopathy in diabetic mice by preventing mitochondria damage. *Diabetes*, 60:3023-33.
45. **Santos JM**, Mohammad G, Zhong Q, Kowluru RA (2011). Diabetic Retinopathy, superoxide damage and antioxidant. *Curr Pharml Biotechnol*, 12: 352-561.
46. **Santos JM**, Benite SR, Queiroz G, Appel HJ, Duarte JR (2011) In vitro glucose uptake induced by electrical stimulation in soleus muscle. Does the stimulation frequency matter? *Arch Exerc Health Dis*, 1:34-42.
47. Ribeiro-Benite SA, **Santos JM**, Soares-Filho MC, Duarte JR (2010). Influence of regular physical exercise on increased caloric intake triggered by stressors. *ARBS*, 12:30-45.
48. Gaya AR., **Matzenbacher dos Santos, J**, Martins, C, Gaya, A, Mansilha, H, Mota, J (2008) Insulin resistance and risk of Obesity. *Brazilian Journal of Physical Activity and Health*, 13:149-157.
49. **Santos JM**, Benite SR, Gaya AR, Appel HJ, Duarte JA (2008). Skeletal Muscle Pathways of Contraction-Enhanced Glucose Uptake. *Int J Sports Med*; 29:785-94.

Published Abstracts

1. Julia dos Santos, Jessica Jonesa, Tyler Sinea, Christopher Griffitha, Andrea C Haney. (2022) Bisphenols A and S exposure induces an increase in triglyceride and oxidative stress, and a decrease in physical fitness. 96th West Virginia Academy of Science Annual Meeting- Fairmont, April 2022. <https://www.pwvas.org/index.php/pwvas/article/view/938>
2. **Julia dos Santos**, Jessica Jones^a, Tyler Sine^a, Amanda Metcalf, Andrea C. Haney. BPA and BPS increase oxidative stress inducing a decrease in physical fitness and dyslipidemia in young adults. Experimental Biology International Meeting- Philadelphia, April 2022. <https://doi.org/10.1096/fasebj.2022.36.S1.L7696>

3. Taylor Kennedy^a, Mychaela Antill^a, Christopher Griffith^a, C., & **Julia dos Santos** (2022). The Differences in Peak Anaerobic Muscular Power and Risk Factors Related to Cardiovascular Diseases between Athletes and Physical Active Subjects. 96th West Virginia Academy of Science Annual Meeting- Fairmont, April 2022. Proceedings of the West Virginia Academy of Science, 94(1). Retrieved from <https://www.pwvas.org/index.php/pwvas/article/view/935>.
4. Priscilla A. Richmond^a, Kristie Kiefer, **Julia dos Santos**. (2022). The Relationship Between Performance and Body Composition of Acrobatics and Tumbling Athletes. 96th West Virginia Academy of Science Annual Meeting- Fairmont, April 2022. Proceedings of the West Virginia Academy of Science, 94(1). Retrieved from <https://www.pwvas.org/index.php/pwvas/article/view/917>
5. Mychaela Antill ^a, Adam Kolberg, Taylor Kennedy, **Julia dos Santos**. (2022). The Impact of 12 Weeks of Training on Body Composition and Blood Pressure in NCAA football players Division II. 96th West Virginia Academy of Science Annual Meeting- Fairmont, April 2022. Proceedings of the West Virginia Academy of Science, 94(1). Retrieved from <https://www.pwvas.org/index.php/pwvas/article/view/936>
6. **Julia M dos Santos**, Madison Wade^a, Sandra Benite-Ribeiro, Paul Reneau. The Effect Of Processed Food Intake On Insulin- And Exercise-induced Glucose Uptake In Overweight And Obese Subjects. American College of Sports Medicine 68th Annual Meeting- Online Conference June 4th 2021. 1364." *Medicine & Science in Sports & Exercise* 53, no. 8S (2021): 448.
7. Hyesook Kim; **Julia Matzenbacher Santos**; Aby Joiakim; David Kaplan; Ben Rybicki; Alan Dombkowski; David A. Putt. Improvement of prostate cancer diagnosis using a multiplex test of PSA, GDF-15 (NAG-1) and glycan-binding auto-IgG in plasma *Cancer Res* (2018) 78 (13_Supplement): 690 <https://doi.org/10.1158/1538-7445.AM2018-690>
8. Julia M Santos, Aby Joiakim, David A Putt, Pilar Herrera-Fierro, Vishva Ray, Alan Dombokowski, Guoan Chen, David G Beer, Hyesook Kim. Identification of early lung cancer miRNA biomarkers using qRT-PCR and novel label-free nanoarray technology. *Cancer Res* (2017) 77 (13_Supplement): 5436. <https://doi.org/10.1158/1538-7445.AM2017-5436>
9. Benite-Ribeiro, S. A., Oliveira, D. S., Santos, G., Alves, M. L., Rezende, E. M., Prado, K., ... & **Santos, J. M.** (2016, June). The Use of High-Fat Diet Combined with Low Dose of Streptozotocin to Induce Type 2 Diabetes and the Effect of Endurance Exercise. In *DIABETES* (Vol. 65, pp. A194-A194). 1701 N BEAUREGARD ST, ALEXANDRIA, VA 22311-1717 USA: AMER DIABETES ASSOC.
10. Ribeiro, S. B., Duarte, J. A., & **Santos, J. M.** (2014). The Role Of Apkc On Insulin-And Contraction-induced Glucose Uptake In Skeletal Muscle: 2801 Board# 87 May 30, 2: 00 PM-3: 30 PM. *Medicine & Science in Sports & Exercise*, 46(5S), 755.
11. Renu Kowluru, **Julia M Santos**; Protein Deacetylases Sirt1 and Epigenetic Modification of Matrix Metalloproteinase-9 in Diabetic Retinopathy. *Invest. Ophthalmol. Vis. Sci.* 2014;55(13):5834.
12. Renu Kowluru, Qing Zhong, **Julia Santos**, Mangayarkarasi ThandampallayamAje, Douglas Putt, Dennis Gierhart; Potential beneficial effects of carotenoids on diabetic retinopathy. *Invest. Ophthalmol. Vis. Sci.* 2013;54(15):4598.

13. Anjan Kowluru, Renu Kowluru, **Julia Santos**; Retinal NADPH oxidase-2 (Nox-2) activation precedes mitochondrial damage in the development of diabetic retinopathy. *Invest. Ophthalmol. Vis. Sci.* 2013;54(15):3687.
14. **Julia Santos**, Renu Kowluru; Why does diabetes result in impaired mitochondria DNA biogenesis in the retina?. *Invest. Ophthalmol. Vis. Sci.* 2013;54(15):3686.
15. **Julia M. Santos**, Renu A. Kowluru; Retinal Mitochondrial Transport Machinery And Decreased Mitochondria Biogenesis In The Development Of Diabetic Retinopathy. *Invest. Ophthalmol. Vis. Sci.* 2012;53(14):5417.
16. **Julia M. dos Santos**, Renu Kowluru; Mitochondrial Biogenesis And The Development Of Diabetic Retinopathy. *Invest. Ophthalmol. Vis. Sci.* 2011;52(14):4451.
17. **Santos, J.**, Lin, J. Y., & Kowluru, R. (2012). Mitochondrial Dysfunction in the Development of Diabetic Retinopathy: Novel Role of Matrix Metalloproteinase-9. *Free Radical Biology and Medicine*, (53), S97-S98.
18. **Santos, J. M.**, Queiroz, G., Appell, H. J., & Duarte, J. A. (2010). The Effect Of Age On Contraction-induced Glucose Uptake, Glut1 And Glut4 Expression In Skeletal Muscle: 2805Board# 156 June 4 3: 30 PM-5: 00 PM. *Medicine & Science in Sports & Exercise*, 42(5), 756.
19. **Santos, J. M.**, Benite-Ribeiro, S. A., Queiroz, G., Appel, H. J., & Duarte, J. A. (2009). Glucose Uptake And Fiber Damage In Skeletal Muscle Stimulated With Different Frequencies: 2454: Board# 99 May 29 9: 00 AM-10: 30 AM. *Medicine & Science in Sports & Exercise*, 41(5), 351-352.
20. **Santos, J. M.**, Ribeiro, S. B., Queiroz, G., & Duarte, J. A. (2008). The Influence of Insulin and Muscle Contraction on in vitro Glucose Transport: 1559: Board# 1: 0 6 May 28 3: 30 PM-5: 00 PM. *Medicine & Science in Sports & Exercise*, 40(5), S243-S244.
21. Alexandre Maslinkiewicz, Claudia Titze Hessel, Larissa Cristina Lachnit, Suzana Hoppe Oderich, Monica Wagner, Glaucia Reuwsaat Justo, Sara Tae Yamazaki, Cristiane Seewald, Nadia Spode, Denise Jacques Lagranha, Daiane da Rocha Janner, Thiago Gomes Heck, Damiana da Rocha Vianna Flôres, Daniela Mariano da Rocha Bandeira de Mello, **Julia Matzenbacher dos Santos**, Vera Lúcia Cislighi Dallacorte, Rui Curi. Efeitos metabólicos de diferentes chás usados pela população sobre o estresse oxidativo de camundongos. *Salão de Iniciação Científica (17.: 2005: Porto Alegre, RS)*. Livro de resumos. Porto Alegre: UFRGS, 2005.
22. Daiane da Rocha Janner, Elza Maria Santos da Silveira, **Julia Matzenbacher dos Santos**, Alexandre Maslinkiewicz, Lino Pinto de Oliveira Junior, Álvaro Reischak de Oliveira, Rui Curi. Adaptação ao exercício físico de musculação induz citoproteção ao estresse oxidativo em linfócitos: implicação para um papel imunoprotetor das proteínas de choque térmico (HSP) *Salão de Iniciação Científica (15.: 2003: Porto Alegre)*. Livro de resumos. Porto Alegre: UFRGS, 2003.

23. Daiane da Rocha Janner, Thiago Gomes Heck, **Julia Matzenbacher dos Santos**, Gustavo Scola, Lisiane Paula Baldissera, Denise Jacques Lagranha, Alexandre Maslinkiewicz, Angela Maria Vicente Tavares, Joao Antonio Bonatto Costa, Lino Pinto de Oliveira Junior, Álvaro Reischak de Oliveira, Rui Curi, Paulo Ivo Homem de Bittencourt Junior. Mecanismo de indução de proteínas de choque térmico (HSP70) pelo exercício físico de resistência: possível modulação pelo óxido nítrico. Salão de Iniciação Científica (14.: 2002: Porto Alegre). Livro de resumos. Porto Alegre: UFRGS, 2002.

Reviews, Invited Published Papers, Proceedings, Monographs

1. Tyler Sine^b, Jessica Jones, **Julia dos Santos**. The Effect of Bisphenols Exposure on Dyslipidemia and Their Impact on Glucose Uptake - 2022 WV Undergraduate Research Day at the Capitol. Charleston, February.
2. Chris Griffith^b, Tyler Sine^b, Christy Haney, **Julia Dos Santos**. The interrelationship between type 2 diabetes, nutritional behavior, and bisphenol A. 2022 WV Undergraduate Research Day at the Capitol. Charleston, February.
3. Jessica N. Jones b, Tyler S. Sine^b, Christopher P. Griffith^b, Andrea C. Haney, and **Julia M. DosSantos**. The Interrelationship of Bisphenols-A and -S, Lipid Profiles, and Their Effect on Glucose Uptake- Mid-Atlantic Regional Chapter of the American College of Sports Medicine (MARC ACSM)- Harrisburg, October 2021.
4. Benite-Ribeiro Sandra; Oliveira, Lucas-Lima Kamila ^a, Denise Silva , **Matzenbacher Santos, Julia**. Aerobic Exercise attenuate dyslipidemia and mitochondria dysfunction induced by high fat diet. 27th International Conference FFC, Boston, MA September 2019
5. Hyesook Kim, **Julia Santos**, David Putt, Paul Jeon, Aby Joiakim. Magnolia bark extract inhibits pro-hypertensive soluble epoxide hydrolase (sEH) activity in the one-step inhibition 14,15-DHET ELISA. Toxicology Society Annual Meeting - Baltimore, March 2019.
6. Julia M Santos, Aby Joiakim, David J. Kaplan, David Putt and Hyesook Kim. Serum 14,15-DHET, a metabolite of soluble epoxide hydrolase, is an early biomarker to predict doxorubicin (DOX)-induced cardiotoxicity in rats. Toxicology Society Annual Meeting - San Antonio, March 2018.
7. David Putt, Julia M Santos, Aby Joiakim, David J. Kaplan, Marielle Scherrer-Crosbie and Hyesook Kim. 14,15-DHET, a metabolite of soluble epoxide hydrolase (sEH), is an early biomarker of DOXorubicin- induced cardiotoxicity. Winter Eicosanoids Meeting- Baltimore, March 2018.
8. Matzenbacher Santos, Julia; Joiakim Aby; Kaplan David; Putt David; Friedrich; Kim So Hee; Hyesook Kim. Bisphenol A (BPA) in Liquid Portions of Canned Foods Obtained from Domestic and Asian Markets in the United States 17th Annual Pediatric Research Day- Flint, March 2018
9. JM Santos, A Joiakim, DA Putt, P Herrera-Fierro, Vishva Ray, Alan Dombokowski, Guoan Chen, David G Beer, Hyesook Kim Identification of early lung cancer miRNA biomarkers using qRT-PCR and novel label-free nanoarray technology. Cancer Research 77 (13 Supplement), 5436-5436.
10. Santos, Julia Matzenbacher, Moreli; Marcos Lazaro, Benite-Ribeiro Sandra Aparecida; Oliveira, Denise Silva. Can regular exercise reverse modification in skeletal muscle induced by high fat diet and decreased insulin secretion? 76th American Diabetes Association- Annual Meeting. June, 2016.

11. **Santos JM**, Putt D, Jurban M, Joikin A, HS Kim. Annual BPA assessment in three different communities of Detroit metropolitan area. Toxicology Society Annual Meeting- New Orleans, April, 2016
12. **Santos JM**, Joikin A, Putt D, HS Kim. Could honokiol be used to treat preeclampsia? Winter Ecosinoid meeting- Baltimore, April 2016.
13. **Santos JM**, Joikin A, Putt D, HS Kim. Honokiol, could it be used to treat preeclampsia? Wayne State University Lipidomics meeting- Detroit, April 2016.
14. Cordeiro, Gabriela ^a; Alves, Michaela; Moreli, Marcos; **Santos, Julia Matzenbacher dos**; Benite-Ribeiro, Sandra. Indução da diabetes mellitus tipo 2 em ratos com gordura adicionada à ração e baixa dose de estreptozotocina (Portuguese) 11º Congresso de Pesquisa, Ensino e Extensão Conpeex, REJ –November, 2015.
15. Guilherme Santos ^a, Kayorrane Galvão do Prado, Denise Silva de Oliveira, Benite-Ribeiro, Sandra Aparecida, **Santos, Julia Matzenbacher dos**. Efeito do Exercício Físico e dieta hiperlipídica no desenvolvimento do diabetes tipo (Portuguese) 11º Congresso de Pesquisa, Ensino e Extensão Conpeex, REJ –November, 2015.
16. **Santos JM**, Jurban M, Kim HS. Sewage 8-isoprostane a link to assess lifestyle and wellness of a large scale population. Toxicology Society Annual Meeting- April, 2015
17. Rotilli D. a; Viela L. Soares Filho M, Santos JM, Lira CAB, Benite-Ribeiro SA. Relação entre índice de massa corporal e pressão arterial em sujeitos hipertensos tratados ou não com fármacos anti-hipertensivos. XXIV Reunião Anual da FeSBE, (Portuguese)- June 2009.
18. Andrade DO a, Ferreira NS, Lima ANR, Soares Filho M, Santos JM, Benite- Ribeiro SA. Relação entre índice de massa corporal e diabetes tipo II em sujeitos tratados com fármacos anti-hiperglicêmicos XXIV Reunião Anual da FeSBE, (Portuguese)- June, 2009.
19. Benite-Ribeiro SA, Santos JM, Rotilli D, Duarte JA. Physical exercise effects on biochemical profile of stressed female wistars XXIV FeSBE Annual Meeting- June, 2009.
20. Santos JM; Benite SR; Queiroz G; Duarte JA. The influence of insulin and muscle contraction on in vitro glucose transport. American College of Sports Medicine Annual meeting –June, 2008.
21. Benite-Ribeiro, SA; Matzenbacher do Santos J.; Mazzola P.; Duarte JA. Relação entre exercício físico e estresse social no perfil metabólico e morfologia de fêmeas Wistars alimentadas com ração e alimentos hipercalórico. XII Congresso de Ciências do Desporto e Educação Física de Países de Língua Portuguesa- (Portuguese)- Setembro, 2008.
22. Mazzola P a; Matzenbacher do Santos J.; Benite-Ribeiro, SA; Duarte JA. Influência da evolução ontogênica no transporte de glicose estimulado pela contração muscular. XII Congresso de Ciências do Desporto e Educação Física de Países de Língua Portuguesa- (Portuguese)- Setembro, 2008.
23. **Matzenbacher dos Santos J**; Benite SR; Gaya AR; Queiroz G; Duarte JA. Influência da idade no transporte de glicose no músculo esquelético durante a contração in vitro. 6th Congresso em Atividade Física e Saúde- (Portuguese)- November, 2007.
24. **Santos JM**; Benite SR; Queiroz G; Duarte JA. Influence of insulin and muscle contraction evoked by low frequency stimulus on in vitro glucose uptake. XXXVIII Portuguese Society of Pharmacology Annual Meeting -December, 2007.

25. **Matzenbacher dos Santos J**; Gaya A Reis; Cardoso M; Mansilha H, Mota J. Frequency of Diabetes Type 2 and Cardiovascular Risk Factors in Obese Children and Adolescents. 11th Annual Congress of the European College of Sport Science -July, 2006.
26. Gaya A Reis; **Santos MJ**; Ribeiro J; Mota J, Carvalho J. Prevalência do Risco de Desenvolver Diabetes tipo II: estudo realizado em crianças e adolescentes. XXIII Congresso de Ciências do Desporto e Educação Física de Países de Língua Portuguesa-(Portuguese)- September, 2006.
27. Santos da Silveira E; Oliveira P. Jr; **Matzenbacher dos Santos J.**, et al. Metabolismo da glutathione em eritrócitos e TBARS em plasma de ratos submetidos a exercício agudo XX AMRIGS Annual Meeting - August, 2005.
28. Maslinkiewicz A, Heck T., Lagranha D; Hessel C.T.; Oderich, S. ; Heck T, Janner D, Viana DR, Dallacorte VL, **Santos JM**, Curi R, Homem de Bittencourt PI . Efeitos Matabólicos de diferentes Chás usados na população sobre o estresse oxidativo em camundongos. XX Reunião Anual da Federação de Biologia Experimental-(Portuguese) – August, 2005.
29. Maslinkiewicz A, Heck T., Lagranha D. Viana DR, Silveira EMSS, **Santos JM**, Pinto de Oliveira L, Janner D, Krausee M, Curi R, Homem de Bittencourt PI. *Influência do fármaco anfetamínico no músculo gastrocnêmio associado ao treinamento físico. XX Reunião Anual da Federação de Biologia Experimental -(Portuguese) – August, 2005.*
30. Janner D: **Matzenbacher dos Santos J**; Santos da Silveira E; Santos da Silveira E; Heek T.G., Maslinkiewicz A, Lagranha D ScolaG., Pinto de Oliveira L. , Bonatto J, Homem de Bittencourt P.I. Jr.. Adaptação ao exercício físico de musculação induz citoproteção ao estresse oxidativo em linfócitos: implicação para um papel imunoprotetor para das proteínas de choque térmico. XVIII Reunião Anual da Federação de Biologia Experimental-(Portuguese) - August, 2003.
31. **Santos JM.**, Janner D., Heek T.G., Scola G., Pinto de Oliveira L., Maslinkiewicz A, Lagranha D , Homem de Bittencourt P.I. *Efeito do Exercício físico nas proteínas de choque térmico- Possível correlação com produção de óxido nítrico.* XVIII Reunião Anual da Federação de Biologia Experimental -(Portuguese) – August, 2003.
32. Janner D, **Matzenbacher dos Santos J**, Santos da Silveira E, Heek TG, Scola G, Pinto de Oliveira L, Bonatto J, Homem de Bittencourt PI Jr. *Adaptação ao exercício físico de musculação induz citoproteção ao estresse oxidativo em linfócitos: implicação para um papel imunoprotetor para das proteínas de choque térmico.* (Portuguese) Scientific Initiation Meeting of Catholic University of Rio Grande do Sul- October, 2003.
33. Janner D, **Matzenbacher dos Santos J**, Heek TG, Scola G., Maslinkiewicz A, Lagranha D Pinto de Oliveira L. Homem de Bittencourt P.I. Jr. *Musculação de series simples vs. múltiplas: análise de composição corporal, força endurance muscular localizado.* (Portuguese) Scientific Initiation Meeting of Catholic University of Rio Grande do Sul- October, 2003.
34. **Matzenbacher dos Santos J.**, Janner D., Heek T.G., ScolaG., Pinto de Oliveira L. Homem de Bittencourt P.I. Jr. *Efeito do Exercício Físico nas proteínas de choque térmico (HSP70).* Scientific Initiation Meeting of Catholic University of Rio Grande do Sul.- October 2003.
35. Lazzarotto A., Santos Soares E., **Matzenbacher dos Santos J.**, Gaya A., Homem de Bittencourt P.I. Jr. Effect of physical exercise in immunologic system in HIV/AIDS. International Meeting of Physical Education- July 2003.
36. **Santos JM.**, Janner D., Heek T.G., Scola G., Maslinkiewicz A, Lagranha D. Pinto de Oliveira L., Homem de Bittencourt P.I. Jr. Heat Shock Protein (HSP) expression in aerobic exercise and possible correlation with oxide nitric production. Latin American International Congress of Physiology- September, 2003.

Other Publications/Oral presentation

1. Julia dos Santos, Jessica Jonesa, Tyler Sinea, Christopher Griffitha, Andrea C Haney. (2022) Bisphenols A and S exposure induces an increase in triglyceride and oxidative stress, and a decrease in physical fitness. 96th West Virginia Academy of Science Annual Meeting- Fairmont, April 2022.
2. **Julia M. dos Santos-** The impact of environmental estrogen and physical exercise on glucose uptake, insulin resistance, and the development of type 2 diabetes. International Congress of Health UNIJUI Brazil- Online May 24th of 2021- link <https://youtu.be/i5oCq0Ta0LU>
3. **Julia M. Santos,** Aby Joiakim, David J. Kaplan, David Putt and Hyesook Kim. 14,15-DHET, a soluble epoxide hydrolase (sEH) metabolite predicts cancer therapy-induced cardiotoxicity and screening sEH inhibitors for medical intervention 18th Winter Eicosanoids Meeting- Online 2020.
4. **Santos JM,** Joikin A, Putt D, HS Kim. Could honokiol be used to treat preeclampsia? Good Morning Detroit Meeting- Detroit R&D monthly seminar, Detroit, MI- June 2016.
5. **Santos JM.** The role of mitochondrial transcription factor A in the development of diabetic retinopathy. Good Morning Detroit Meeting- Detroit R&D monthly seminar, Detroit, MI- July 2014.
6. **Santos JM** Why mitochondria biogenesis is impaired in diabetes in retina. ARVO Annual meeting- Seattle, USA- May 2013.
7. **Santos JM.** The effect of low-frequency muscle contraction and insulin on glucose uptake in skeletal muscle. The Pharmacology Meeting of Portugues Association- Coimbra, Portugal- September 2009.
8. **Santos JM.** Heat Shock Protein (HSP) expression in aerobic exercise and possible correlation with oxide nitric production. Latin American International Congress of Physiology, Ribeirao Preto, Brasil- September 2003.

Research

Principal Investigator

1. WV-INBRE Carryover Equipment Request – Using DEXA for biomedical research at Fairmont State University 2022, Principal Investigator US\$47,482.15
2. NASA West Virginia Space Grant Consortium- “The effect of endocrine disruptive components on skeletal muscle, mitochondrial DNA damage, and muscle strength”- 2022, Principal Investigator US\$ 4,000.00
3. NASA West Virginia Space Grant Consortium- “The relationship between levels of BPA, BPS and lipid profile, and their effect on muscle strength and skeletal muscle damage”- 2021, Principal Investigator /student supervisor. US\$ 2,000.00
4. Institutional Mini-Grants West Virginia State/Fairmont State University- “Improving Anatomy and Physiology Classes with Human Anatomy Models” 2021-2021, Principal Investigator US\$ 3,000.00
5. NASA West Virginia Space Grant Consortium- “Bisphenol S, a BPA replacement, effect on dyslipidemia, and insulin- and exercise-induced glucose uptake”- 2021, student adviser along with investigator stipend. US\$ 3,200.00

6. Fairmont Foundation Grant- “The effect of exposure of BPA and glucose transport”- 2020-2021, principal investigator. US\$ 2,000.00
7. International young scientist, Brazilian National Council for Science (CNPq) “The role of epigenetic modification on PGC1 and its effect in type 2 diabetes” 2014-2016. Principal investigator – Student Stipend. US\$ 20,000.00
8. Research Grant Award, Eye and Vision Program, Midwest Eye Bank “The role of mitochondria transport proteins on the development of diabetic retinopathy” 2012-2013- US\$ 15,000.00
9. Student stipend award, Midwest Eye-Bank Research Program, 2011-2012. US\$ 500.00
10. Ph.D. Fellowship from Portuguese National Council for Science Technology (FCT), 2005-2009. Student stipend
11. Research Fellowship, Undergraduate -Brazilian National Council for Science (CNPq), 2002-2003. Student stipend

Co- Investigator

1. Phase I SBIR/NIH-NCI contract “Detection of DOX-induced cardiotoxicity biomarker with nanowell label-free array”. 2016-2017, Co-investigator. US\$ 250,000.00
2. Phase I SBIR/NIH-NCI contract “Circulating nucleic acid-based nanowell label-free array in Cancer”. 2015-2016, Co-investigator US\$ 325,000.00
3. Research Grant Award, Goias State Fundation (FAPEG) “The role of epigenetic modification on mitochondria damage and its effect in type 2 diabetes” 2014-2017. US\$ 5,000.00 Investigator
4. 2R01EY0- NIH Glycemic Control and progression of diabetic retinopathy- 2010-2013- Investigator
5. 3R01EY- NIH The role of H-Ras in retinal cell death in diabetes- 2012-2013- Investigator
6. 1R01EY- NIH NADPH oxidase, mitochondria dysfunction and diabetic retinopathy- 2012-2013- Investigator

Other Scholarly Activities

Manuscript Reviewer 2009-2022

British Journal of Nutrition,
Medical Hypothesis
Journal of Endocrinology,
Metabolism- Clinical and Experimental,
European Journal of Applied Physiology,
Investigative Ophthalmology & Visual Science,
Diabetes Obesity and Metabolism,
Archives of Exercise in Health and Disease,
International Journal of Sports Medicine,
Cell Biochemistry and Function,

Preventive Medicine
 Pan-american Journal of Public Health,
 Cellular Signaling,
 Microvascular Research
 Molecular Neurobiology,
 Scientific Reports,
 Journal of Water Research,
 Molecular Biology Reports.

Editorial Boards

2018-2022

2018-2022

2019-2022

2019-2022

Journal of Diabetes Research
 Oxidative Medicine and Cellular Longevity
 Translational Research
Contexto Saude

Advisory Boards

2021

Mid-Atlantic Regional Chapter of the American College of
 Sports Medicine (MARC ACSM)- Conference Judge
 96th West Virginia Academy of Science Annual Meeting

2022

Teaching

Primary Teacher

Term / Years	Course Number & Title	No. of Students	Level	Didactic or Clinical
Summer/2022	PHED1199/ Medical Terminology	6	Undergrad	Didactic
Spring/ 2022	PHED 6417/ Exercise in Health and Disease	4	Grad.	Didactic
Spring/ 2022	PHED 3317/Clinical Applications in Exercise Physiology	17	Undergrad	Didactic
Spring/ 2022	PHED 2211/ Anatomy and Physiology	28	Undergrad	Didactic
Spring/ 2022	PHED 4410/ Research Design	12	Undergrad	Didactic
Fall/ 2021	PHED 6460/ Strength and Condition	9	Grad.	Didactic
Fall/ 2021	PHED 6499/Capstone in Research	3	Grad	Didactic
Fall/ 2021	PHED 4420/ Internship	13	Undergrad	Didactic
Fall/ 2021	PHED 4400/Research Methods	12	Undergrad	Didactic
Fall/2021	PHED 3317/ Clinical Application in Exercise Physiology	25	Undergrad	Didactic

Fall/ 2021	PHED 3360/ Strength and Condition	25	Undergrad	Didactic
Winter/2021	PHED1199/ Medical Terminology	6	Undergrad	Didactic
Summer/2021	PHED1199/ Medical Terminology	12	Undergrad	Didactic
Spring/ 2021	PHED 6417/ Exercise in Health and Disease	9	Grad.	Didactic
Spring/ 2021	PHED 4420/Internship	5	Undergrad	Didactic
Spring/ 2021	PHED 2211/ Anatomy and Physiology	28	Undergrad	Didactic
Spring/ 2021	PHED 6498/ Thesis	1	Grad.	Didactic
Winter/2020	PHED1199/ Medical Terminology	14	Undergrad	Didactic
Fall/ 2020	PHED 6460/ Strength and Condition	5	Grad.	Didactic
Fall/2020	PHED 3360/ Strength and Condition	7	Undergrad	Didactic
Fall/ 2020	PHED 4420/Internship	11	Undergrad	Didactic
Fall/2020	PHED 4400/ Research Methods	15	Undergrad	Didactic
Summer/2020	PHED1199/ Medical Terminology	25	Undergrad	Didactic
Spring/ 2020	PHED 6417/ Exercise in Health and Disease	9	Grad.	Didactic
Spring/ 2020	PHED 4420/Internship	25	Undergrad	Didactic
Spring/ 2020	PHED 2211/ Anatomy and Physiology	42	Undergrad	Didactic
Spring/ 2020	PHED 6498/ Thesis	1	Grad.	Didactic
Spring/2020	PHED 4410/Research Design	15	Undergrad	Didactic
Fall/ 2019	PHED 4420/Internship	13	Undergrad	Didactic
Fall/ 2019	PHED 2211/ Anatomy and Physiology	26	Undergrad	Didactic
Fall/2019	PHED 6412/ Cardiopulmonary Exercise Physiology	4	Grad.	Didactic
Fall/2019	PHED1199/ Medical Terminology	30	Undergrad	Didactic
Fall/2019	PHED 4400/Research Methods	15	Undergrad	Didactic
Summer/2019	PHED1199/ Medical Terminology	8	Undergrad	Didactic
Spring/ 2019	PHED 6417/ Exercise in Health and Disease	4	Grad.	Didactic
Spring/ 2019	PHED 4420/Internship	28	Undergrad	Didactic
Spring/2019	PHED 4410/Research Design	12	Undergrad	Didactic
Spring/2019	PHED 1100/Fitness and Wellness	25	Undergrad	Didactic

Fall/2018	PHED 1100/Fitness and Wellness	25	Undergrad	Didactic
Fall/ 2018	PHED 2211/ Anatomy and Physiology	30	Undergrad	Didactic
Fall/2018	PHED 6412/ Cardiopulmonary Exercise Physiology	5	Grad.	Didactic
Fall/2020	PHED 4400/ Research Methods	28	Undergrad	Didactic

Master's Theses

Lead Chair

- 1- Madison Wade, Fairmont State University (Master completed in 2020)
- 2- Jessica Jones, Fairmont State University (Master completed in 2021)

Committee member

- 1- Jacob Whitmore, Fairmont State University (Master completed in 2019)
- 2- Kamila Lima, Federal University of Goias, Brazil (Master completed in 2019)
- 3- Hellen Chaves, Federal University of Goias, Brazil (Master to be completed in 2021)
- 4- Suziane Martins Severino, Federal University of Goias, Brazil (Master to be completed in 2021)
- 5- Renan Daniel Bueno Basso, Regional University of Northwestern Rio Grande do Sul State (UNIJUI) Ijuí, RS, Brazil (Master to be completed in 2022).

Service

University Committees

Fairmont State University: IRB, Grants, International Students, Graduate Studies.

Other Professional Activities

Fairmont State University: Program Coordination Master of Education in Exercise Science (2019-2022)