

Curriculum Vitae
Mariana Janini Gomes, Ph.D.

Professional Address:

Texas A&M University
Department of Kinesiology and Sport Management
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EDUCATION

- 2019 - 2022 **Postdoctoral Fellow**
Brigham and Women's Hospital/ Harvard Medical School
Boston, MA
- 2017 – 2018 **Visiting Graduate Student**
Texas A&M University
College Station, TX
- 2015 – 2019 **PhD, Physiology and Pathophysiology**
Botucatu Medical School, Sao Paulo State University
Botucatu, SP, Brazil
- 2013 – 2015 **MSc, Physiology and Pathophysiology**
Botucatu Medical School, Sao Paulo State University
Botucatu, SP, Brazil
- 2008 – 2012 **BSc, Physical Therapy**
University of West Paulista – UNOESTE
Presidente Prudente, SP, Brazil

ACADEMIC APPOINTMENTS

- 2022- Present **Assistant Professor**
Texas A&M University
Department of Kinesiology and Sport Management
College Station, TX

RESEARCH INTERESTS

Skeletal muscle abnormalities associated with cardiovascular diseases

Molecular mechanisms of skeletal muscle mass regulation

Redox control of cell signaling in skeletal muscle

Interplay between the skeletal muscle and immune systems.

Exercise-mediated changes in skeletal muscle redox signaling and the immune system

GRANT SUPPORT

External

2023 - 2028

NIH R01 Research Grant, Lawler (PI)

Source: National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) and National Institute of Neurological Disorders and Stroke (NINDS).

Title: *Redox Regulation of RANKL in Dystrophic Muscle: A Novel Positive Feedback Cycle*

Goal: To elucidate new mechanisms by which redox signaling contributes to the degenerative pathology of the diaphragm and other skeletal muscles affected by Duchenne muscular dystrophy.

Role: CO-Investigator

Status: Submitted

Internal

8/22 - 7/23

Dr. JP Bramhall Faculty Research Seed Grant Program, Janini Gomes (PI)

Source: The Huffines Institute, Texas A&M University

Title: Interplay between oxidative stress and inflammation in the pathogenesis of skeletal muscle atrophy

Goal: To investigate the molecular mechanisms of NOD-like receptor family pyrin domain-containing 3 (NLRP3) inflammasome activation and regulation in skeletal muscle cells, and how its communication with oxidative stress leads to muscle atrophy.

Role: Principal Investigator

Status: Approved

Amount: \$7,500

1/23 - 7/24

Catapult Research Seed Grant Program, Janini Gomes (PI)

Source: School of Education and Human Development, Texas A&M University

Title: Exercise-induced myokines in cardiac cachexia

Goal: To generate mechanistic information about exercise-induced myokines and their impact on muscle mass regulation in cardiac cachexia.

Role: Principal Investigator

Status: Submitted

Other Funding

2019 - 2022	Postdoctoral in Cardiovascular Research Fellowship Lemann Foundation
2017 - 2018	Research Internship Abroad Sao Paulo Research Foundation, FAPESP
2016 - 2019	Doctorate Scholarship Sao Paulo Research Foundation, FAPESP
2013 - 2015	Master Scholarship Sao Paulo Research Foundation, FAPESP

PUBLICATIONS

Quantitative Metrics

h-index = 12

i10-index = 13

[Complete PubMed Bibliography](#)

[Google Scholar](#)

[ORCID](#)

Peer-Reviewed Research Articles

1. Rosa CM, Campos DHS, Reyes DRA, Damatto FC, Kurosaki LY, Pagan LU, **Gomes MJ**, et al. Effects of the SGLT2 Inhibition on Cardiac Remodeling in Streptozotocin-Induced Diabetic Rats, a Model of Type 1 Diabetes Mellitus. *Antioxidants*. 2022;11:982.
2. Pagan LU, **Gomes MJ**, Damatto RL, Lima ARR, Cezar MDM, Damatto FC, et al. Aerobic Exercise During Advance Stage of Uncontrolled Arterial Hypertension. *Front Physiol*. 2021;12:675778.
3. Lawler JM, Hord JM, Ryan P, Holly D, **Janini Gomes M**, Rodriguez D, et al. Nox2 Inhibition Regulates Stress Response and Mitigates Skeletal Muscle Fiber Atrophy during Simulated Microgravity. *Int J Mol Sci*. 2021;22:3252.
4. Souza LM, Okoshi MP, **Gomes MJ**, Gatto M, Rodrigues EA, Pontes THD, et al. Effects of Late Aerobic Exercise on Cardiac Remodeling of Rats with Small-Sized Myocardial Infarction. *Arq Bras Cardiol*. 2021;116:784-792.
5. **Gomes MJ**, Pagan LU, Lima ARR, Reyes DRA, Martinez PF, Damatto FC, et al. Effects of aerobic and resistance exercise on cardiac remodelling and skeletal muscle oxidative stress of infarcted rats. *J Cell Mol Med*. 2020; 24:5352- 62.

6. Pagan LU, Damatto RL, **Gomes MJ**, Lima ARR, Cezar MDM, Damatto FC, et al. Low-intensity aerobic exercise improves cardiac remodelling of adult spontaneously hypertensive rats. *J Cell Mol Med*. 2019; 23:6504-07.
7. Lawler JM, Erika L, Guizzoni V, Hord J, Botchlett R, Holly D, **Janini Gomes M**, et al. Effect of combined fish oil & curcumin on murine skeletal muscle morphology and stress response proteins during mechanical unloading. *Nutrition Research*. 2019; 65:17-28.
8. Reyes DRA, **Gomes MJ**, Rosa CM, Pagan LU, Zanati SG, Damatto RL, et al. Exercise during transition from compensated left ventricular hypertrophy to heart failure in aortic stenosis rats. *J Cell Mol Med*. 2019;23:1235-45.
9. Kuczmariski JM, Hord JM, Lee Y, Guzzoni V, Rodriguez D, Lawler MS, Garcia-Villatoro EL, Holly D, Ryan P, Falcon K, Garcia M, **Janini Gomes M**, Fluckey JD, Lawler JM. Effect of EUK-134 on Akt-mTOR signaling in the rat soleus during 7 days of mechanical unloading. *Experimental Physiology*. 2018; 2018:1-14.
10. Lima ARR, Pagan LU, Damatto RL, Cezar MDM, Bonomo C, **Gomes MJ**, et al. Effects of growth hormone on cardiac remodeling and soleus muscle in rats with aortic stenosis-induced heart failure. *Oncotarget*. 2017;8:83009-21.
11. Reyes DR, **Gomes MJ**, Rosa CM, Pagan LU, Damatto FC, Damatto RL, et al. N-Acetylcysteine influence on oxidative stress and cardiac remodeling in rats during transition from compensated left ventricular hypertrophy to heart failure. *Cell Physiol Biochem*. 2017;44:2310-21.
12. Guizoni DM, Oliveira-Junior SA, Noor SLR, Pagan LU, Martinez PF, Lima ARR, **Gomes MJ**, et al. Effects of late exercise on cardiac remodeling and myocardial calcium handling proteins in rats with moderate and large size myocardial infarction. *Int J Cardiol*. 2016;221:406-12.
13. **Gomes MJ**, Martinez PF, Campos DHS, Pagan LU, Bonomo C, Lima ARR, et al. Beneficial effects of physical exercise on functional capacity and skeletal muscle oxidative stress in rats with aortic stenosis-induced heart failure. *Oxid Med Cell Longev*. 2016;2016:1-12.
14. Pagan LU, Damatto RL, Cezar MDM, Lima ARR, Bonomo C, Campos DHS, **Gomes MJ**, et al. Long-term low intensity physical exercise attenuates heart failure development in aging spontaneously hypertensive rats. *Cell Physiol Biochem*. 2015;36:61-74.
15. Cezar MDM, Damatto RL, Pagan LU, Lima ARR, Martinez PF, Bonomo C, Rosa CM, Campos DHS, Cicogna AC, **Gomes MJ**, Oliveira-Junior AS, Blotta DA, Okoshi MP, Okoshi K. Early spironolactone treatment attenuates heart failure development by improving myocardial function and reducing fibrosis in spontaneously hypertensive rats. *Cell Physiol Biochem*. 2015; 36:1453-66.
16. Anzolin CC, Freire APCF, Alves MJ, **Gomes MJ**, Cavalcante MA, Mustafa RM, et al. Treinamento físico em academia melhora qualidade de vida em pacientes no pós-operatório de revascularização miocárdica [Physical training in gym improves quality of life in postoperative myocardial revascularization patients]. *ConScientiae Saúde*. 2017;15:407-13. [Article in Portuguese]
17. **Gomes MJ**, Freire APCF, Geronimo JN, Ceccato AD, Silva VVS, Pacagnelli, FL.

Reabilitação cardiovascular melhora capacidade funcional de pacientes cardiopatas após 3 anos de seguimento [Cardiovascular rehabilitation improves functional capacity of patients with heart disease after 3 years of follow up]. *ConScientiae Saúde*. 2016;15:547-53. [Article in Portuguese]

18. Junqueira LRV, Brandao SPS, Alves JS, Kaneko TT, **Gomes MJ**, Pacagnelli FL, Silva RCRE, Lopes GAP. Qualidade de vida em mulheres após intervenção fisioterapêutica na incontinência urinária de esforço. *Colloquium Vitae*. 2012;4:231-38. [Article in Portuguese]
19. Oliveira EV, Santos DF, Tetila AF, Silva DF, **Gomes MJ**, Fell RF, Prado MTA, Pacagnelli FL, Lima RAP, Lopes GAP, Silva RCRE, Fernani DCGL. Influência da prática de atividades aquáticas na reposição de insulina e qualidade de vida no diabético tipo 1 - Relato de caso. *Colloquium Vitae*. 2012;4:176-83. [Article in Portuguese]

Peer-Reviewed Review Articles

1. Pagan LU, **Gomes MJ**, Gatto M, Mota GAF, Okoshi K, Okoshi MP. The Role of Oxidative Stress in the Aging Heart. *Antioxidants*. 2022;11:336
2. **Gomes MJ**, Martinez PF, Pagan LU, Damatto RL, Cezar MDM, Lima ARR, Okoshi K, Okoshi MP. Skeletal muscle aging: influence of oxidative stress and physical exercise. *Oncotarget*. 2017;8:20428-40.

Editorials

1. Pagan LU, **Gomes MJ**, Martinez PF, Okoshi MP. Oxidative Stress and Heart Failure: Mechanisms, Signalling Pathways, and Therapeutics. *Oxid Med Cell Longev*. 2022;2022:9829505.
2. Pagan LU, **Gomes MJ**, Okoshi MP. Overview of Recent Advances in Experimental Cardiovascular Research. *Arq Bras Cardiol*. 2020;115:593-594.
3. **Gomes MJ**, Pagan LU. Heart rate control in heart failure. *Arq Bras Cardiol*. 2020;115:1070-1071.
4. Pacagnelli FL, Aguiar AF, Engel LE, Bongiovani AC, **Gomes MJ**. Intermittent Diet in Exercise-Induced Cardiac Remodeling. *Arq Bras Cardiol*. 2020;115:194-6.
5. **Gomes MJ**, Pagan LU, Okoshi MP. Non-Pharmacological Treatment of Cardiovascular Disease | Importance of Physical Exercise. *Arq Bras Cardiol*. 2019;113:9-10.
6. Cezar MDM, Pagan LU, Damatto RL, Lima ARR, **Gomes MJ**. Cardioprotective Effects of Resistance Training on Obesity. *Arq Bras Cardiol*. 2019; 112:553-554.
7. Cezar MDM, **Gomes MJ**, Damatto RL. Prenatal stress: molecular mechanisms and cardiovascular disease. *Arq Bras Cardiol*. 2018;112:76-7.
8. Pagan LU, **Gomes MJ**, Okoshi MP. Endothelial function and physical exercise. . *Arq Bras Cardiol*. 2018;111:540-1.

Articles in preparations/ Submitted for Publication in Scholarly Journals

1. Sabela AKDA*, **Janini Gomes M**, dos Santos ITP, Souza SLB, Mota GAF, Silva VL, Campos DHS, Lima ARR, Carvalho MR, Bazan SGZ, Correa CR, Okoshi MP, Pacagnelli FL. Beneficial effects of physical exercise on diaphragm muscle of rats with aortic stenosis-induced heart failure. *In preparation*. *co-first authors.

Book Chapters

1. Lima ARR, Chechi JL, **Gomes MJ**. (2019) Metodologias Ativas e Inovação na Educação. In: Educação para o Século XXI entre Desafios e Perspectivas. 1ed. Sao Paulo: Dialogo Freiriano. p155-70. [in Portuguese]

Published abstracts and Conference presentations

Authored

1. **Gomes MJ**, Lima ARR, Pagan LU, Damatto FC, Oliveira LRS, Souza LM, Rodrigues EA, Pontes THD, Sodre FSS, Murata GM, Fernandes AAH, Zornoff LAM, Okoshi K, Okoshi MP. Effects of aerobic and resistance exercise on skeletal muscle of infarcted rats. *Eur Heart J*, 2019. v. 40. p. 1462
2. **Gomes MJ**, Pagan LU, Lima ARR, Oliveira LRS, Pontes THD, Rodrigues EA, Zornoff LAM, Fernandes AAH, Okoshi K, Okoshi MP. High-intensity interval training improves oxidative stress and energetic metabolism in skeletal muscle of infarcted rats. *Journal of Cachexia, Sarcopenia and Muscle*, 2018. v. 9. p. 1144.
3. **Gomes MJ**, Ryan P, Holly D, Guizzoni V, Hord J, Kuczmarski J, Lawler M, Lawler J. Effect of EUK-134 on nNOS translocation and membrane repair proteins in unloaded skeletal muscle. In: 33rd Annual Meeting of the American Society for Gravitational and Space Research, 2017, Seattle. American Society for Gravitational and Space Research, 2017. v. 2017. p. 2017.
4. **Gomes MJ**, Martinez PF, Pagan LU, Lima ARR, Damatto RL, Cezar MDM, Fernandes AAH, Fernandes DC, Laurindo FR, Okoshi K, Okoshi MP. Beneficial effects of physical exercise on functional capacity and skeletal muscle oxidative stress in rats with aortic stenosis-induced heart failure. *European Heart Journal*, 2016. v. 37. p. 538.
5. **Gomes MJ**, Martinez PF, Pagan LU, Lima ARR, Damatto RL, Reyes DRA, Damatto FC, Zornoff L, Fernandes AAH, Okoshi K, Okoshi MP. Exercício intervalado de alta intensidade em ratos com infarto do miocárdio. [High intensity interval training in rats with myocardial infarction] *Arquivos Brasileiros de Cardiologia*, 2016. v. 107. p. 12.
6. **Gomes MJ**, Lima ARR, Damatto RL, Pagan LU, Bonomo C, Cezar MDM, Okoshi K, Martinez PF, Okoshi MP. Exercício físico aeróbico em ratos com insuficiência cardíaca induzida por sobrecarga de pressão. *Rev Soc Cardiol Estado de São Paulo*, 2014. v. 24. p. 184-184.
7. **Gomes MJ**, Martinez PF, Campos D, Damatto RL, Pagan LU, Lima ARR, Bonomo C, Matsimbe A, Juma B, Okoshi K, Okoshi MP. Exercise training and MAPK protein expression in rats with heart failure. *FASEB Journal*, 2014.
8. **Gomes MJ**, Santos GS, Silva CR, Rodrigues SG, Pacagnelli FL, Fernani DCGL,

Lopes GAP. Perfil antropométrico e motor de crianças portadoras da síndrome de Down institucionalizadas. In: IV Congresso brasileiro de metabolismo, nutrição e exercício, 2012, Londrina. IV Congresso Brasileiro de metabolismo, nutrição e exercício, 2012. p. 57.

9. **Gomes MJ**, Anzolin CC, Oishi LM, Ribeiro NX, Raso V. A endurance muscular não é um fator clínico para o desempenho na caminhada em mulheres idosas. In: Encontro de Ensino, Pesquisa e Extensão, 2011, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2011. p. 427.
10. **Gomes MJ**, Cacefo AC, Muchiut APL, Gargantini RC, Goya T, Oliveira WGA, Carneiro NH. Força de preensão manual em idosos ativos e sedentários. In: Encontro de Ensino, Pesquisa e Extensão, 2011, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2009. p. 437.
11. **Gomes MJ**, Anzolin CC, Alves MJ, Harada H, Najas CS, Lopes FS. Efeitos do treinamento aeróbio associado com o resistido em cardiopatas. In: I Congresso Internacional de Fisioterapia da FCT - UNESP, 2010, Presidente Prudente. Resumos e Programa, 2010. v. 1. p. 39-39.
12. **Gomes MJ**, Anzolin CC, Alves MJ, Marangoni MA, Harada H, Pacagnelli FL. Efeitos do treinamento aeróbio associado com o resistido nos parâmetros cardiovasculares e ganho de força em indivíduos cardiopatas. In: Encontro de Ensino, Pesquisa e Extensão, 2010, Presidente Prudente. Anais do Encontro de Ensino, Pesquisa e Extensão, 2010.

Co-authored

1. Souza LM, **Gomes MJ**, Rodrigues EA, Borim P, Santos ACC, Gatto M, Pagan LU, Zornoff LAM, Okoshi K, Okoshi MP. Efeitos do exercício resistido no músculo esquelético de ratos infartados. Rev Soc Cardiol Estado de São Paulo, 2022. v. 32. p. 141.
2. Lima AAR, **Gomes MJ**, Pagan LU, Zucoloto LH, Damatto RL, Damatto FC, Zornoff LAM, Okoshi K, Okoshi MP. Influence of moderate and high intensity interval training on infarcted rat diaphragm. European Heart Journal, 2022. v. 43. p. 2445.
3. Rodrigues EA, Souza LM, Pontes THD, **Gomes MJ**, Pagan LU, Murata GM, Damatto FC, Rego ABGC, Lima ARR, Reyes DRA, Zornoff LAM, Okoshi K, Okoshi MP. Effects of resistance exercise in the cardiac remodelling of myocardial infarction rats. European Heart Journal, 2022. v. 43. p. 2444.
4. Souza LM, **Gomes MJ**, Pagan LU, Rodrigues EA, Pontes THD, Fernandes AAH, Murata GM, Zornoff, LAM, Okoshi K, Okoshi MP. Influence of resistance exercise on cardiac remodeling and soleus muscle of infarcted rats. Eur Heart J, 2021. v. 42. p. 2677.
5. Damatto FC, Paschoarelli GL, Rosa CM, **Gomes MJ**, Pagan LU, Damatto RL, Rodrigues EA, Pontes THD, Reyes DRA, Cezar MDM, Oliveira LRS, Zornoff LAM, Rego ABGC, Okoshi MP, Okoshi K. Influence of the SGLT2 inhibitor empagliflozin on post myocardial infarction rat hearts. European Heart Journal, 2022. v. 43. p. 1115.

6. Gatto M, Pagan LU, **Gomes MJ**, Damatto FC, Damatto RL, Lima ARR, Laurindo FRM, Fernandes AAH, Okoshi MP, Okoshi K. Exercício físico aeróbio melhora o metabolismo energético e a capacidade antioxidante do miocárdio de ratos espontaneamente hipertensos. *Revista da Sociedade de Cardiologia do Estado de São Paulo*, 2020. v. 1. p. 1.
7. Souza LM, Okoshi MP, **Gomes MJ**, Rodrigues EA, Pontes THD, Damatto FC, Oliveira LRS, Lima ARR, Gatto M, Borim P, Zornoff LAM, Okoshi K, Pagan LU. Effects of late aerobic exercise on cardiac remodeling of rats with small myocardial infarction. *Eur Heart J*, 2020. v. 41. p. 3098.
8. Tukiya GH, Pagan LU, Gatto M, **Gomes MJ**, Okoshi MP. Influência da inibição da proteína SGLT2 no remodelamento cardíaco de ratos com insuficiência cardíaca induzida por estenose aórtica. In: XXXII Congresso de Iniciação Científica da UNESP, 2020, São Paulo, SP. Anais do Evento, 2020. v. 1. p. 1.
9. Souza LM, **Gomes MJ**, Pagan LU, Gatto M, Rodrigues EA, Pontes THD, Oliveira LRS, Borim P, Zornoff LAM, Okoshi K, Okoshi MP. Efeitos do exercício aeróbio na remodelação cardíaca de ratos com infarto do miocárdio pequeno. In: XI Encontro de Pós-Graduação da Faculdade de Medicina de Botucatu, UNESP, 2020, Botucatu, SP. Anais do Evento, 2020. v. 1. p. 37-38.
10. Tukiya GH, Okoshi MP, Okoshi K, Pagan L, **Gomes MJ**, Gatto, M. Influência da inibição da proteína cotransportadora de sódio-glicose tipo 2 no remodelamento cardíaco de ratos com insuficiência cardíaca induzida por estenose aórtica. In: XXIX Congresso Médico Acadêmico de Botucatu, 2020, Botucatu, SP. Anais do Evento, 2020. v. 1. p. 1
11. Rodrigues EA, Souza LM, **Gomes MJ**, Rego ABGC, Pontes THD, Zornoff LAM, Murata GM, Fernandes AAH, Okoshi K, Okoshi MP. Influência do exercício físico resistido sobre o coração de ratos com infarto do miocárdio. *Rev Soc Cardiol Estado de São Paulo*, 2019. v. 29. p. 170.
12. Piquione FS, Dias RM, Pacagnelli FL, Moraes AB, Fernandes R, Okoshi K, Okoshi MP, **Gomes MJ**, Lima ARR, Junqueira A. Dimensão fractal na remodelação cardíaca de ratos espontaneamente hipertensos submetidos ao exercício combinado e à N-acetilcisteína. *Rev Soc Cardiol Estado de São Paulo*, 2019. v. 29. p. 177.
13. Souza LM, **Gomes MJ**, Rodrigues EA, Pontes THD, Oliveira LRS, Damatto FC, Zornoff LAM, Okoshi K, Okoshi MP, Pagan LU. Exercício físico aeróbio atenua a remodelação cardíaca em ratos com infarto do miocárdio pequeno? *Rev Soc Cardiol Estado de São Paulo*, 2019. v. 29. p. 243.
14. Martinez PF, Morais CS, Ota GE, Carvalho MR, **Gomes MJ**, Cruz ADFC, Oliveira JML, Oliveira PCS, Mendonca MLM, Okoshi K, Okoshi MP, Oliveira-Junior SA. Influence of creatine supplementation and high intensity interval training on glycemic profile and cardiac morphology in rats. *Faseb J*, 2019. v. 33. p. 535.2.
15. Damatto FC, Rosa CM, Pontes THD, Paschoarelli GL, **Gomes MJ**, Pagan LU, Damatto RL, Reyes DRA, Fernandes AAH, Zornoff LAM, Okoshi MP, Okoshi K. Influência da empagliflozina em corações de ratos normais e pós-infarto do miocárdio. *Arq Bras Cardiol*, 2019. v. 113. p. 29.
16. Souza, L.M. ; **Gomes MJ**; Pagan, Lu ; Rodrigues, E. A. ; Tosta, I. F. ; Brandao,

- G. ; Tukiya, G. H. ; Sodre, F. S. S. ; Murata, G.M. ; Zornoff, L. A. M. ; Okoshi, K. ; Okoshi, M. P . Efeitos do exercício, aeróbio ou resistido, sobre a musculatura esquelética de ratos com infarto do miocárdio. *Arq Bras Cardiol*, 2019. v. 113. p. 9.
17. Rodrigues EA, **Gomes MJ**, Pagan LU, Souza LM, Reyes DRA, Tosta IF, Rego A BGC, Tukiya GH, Murata GM, Zornoff LAM, Okoshi K, Okoshi MP. Efeitos do exercício resistido tardio sobre o coração de ratos com infarto do miocárdio. *Arq Bras Cardiol*, 2019. v. 113. p. 26.
 18. Pagan LU, **Gomes MJ**, Damatto RL, Cezar MDM, Reyes DRA, Damatto FC, Campos DHS, Lima ARR, Polegato BF, Fernandes AAH, Laurindo FRM, Okoshi MP, Okoshi K. Physical exercise during uncontrolled systemic arterial hypertension. *Eur Heart J*, 2019. v. 40. p. 2658.
 19. Rosa CM, Campos D, Reyes DRA, Pagan LU, **Gomes MJ**, Damatto FC, Fernandes AAH, Okoshi MP, Okoshi K. Dapagliflozin attenuates cardiac remodeling in rats with diabetes mellitus. *Portuguese Journal of Cardiology*, 2018. p. 144.
 20. Zucoloto LH, Freire PP, **Gomes MJ**, Pontes THD, Rodrigues EA, Pagan LU, Carvalho RF, Okoshi K, Okoshi MP. Papel da ERK nas alterações do músculo esquelético observadas na insuficiência cardíaca. *Rev Soc Cardiol Estado de São Paulo*, 2018. p. 228.
 21. Rodrigues EA, Rego ABGC, Pagan LU, **Gomes MJ**, Lima AAR, Pontes THD, Souza LM, Okoshi K, Okoshi MP. Influência do exercício físico, aeróbio ou resistido, sobre a remodelação cardíaca de ratos com infarto do miocárdio. *Arquivos Brasileiros de Cardiologia*, 2018. v. 111. p. 46.
 22. Pontes THD, Lima ARR, Zucoloto LH, **Gomes MJ**, Pagan LU, Damatto FC, Rodrigues EA, Damatto RL, Zornoff LAM, Okoshi K, Okoshi MP. Exercício aeróbio em ratos com infarto do miocárdio pequeno. *Arquivos Brasileiros de Cardiologia*, 2018. v. 111. p. 42.
 23. Pagan LU, **Gomes MJ**, Damatto RL, Cezar MDM, Reyes DRA, Damatto FC, Campos DHS, LIMA ARR, Polegato BF, Fernandes AAH, Laurindo FRM, Okoshi MP, Okoshi K. Physical exercise during uncontrolled systemic arterial hypertension. *Eur Heart J*, 2019. v. 40. p. 2658.
 24. Rosa CM, Campos DHS, Damatto FC, Reyes DRA, Kurosaki LY, Pagan LU, **Gomes MJ**, Fernandes AAH, Okoshi MP, Okoshi K. . Dapagliflozina melhora o estresse oxidativo e a remodelação cardíaca em ratos com diabetes mellitus. In: X Encontro de Pós-Graduação da Faculdade de Medicina de Botucatu - UNESP, 2018, Botucatu. Anais - X Encontro de Pós-Graduação da Faculdade de Medicina de Botucatu - UNESP, 2018. v. 2018. p. 64.
 25. Damatto FC, **Gomes MJ**, Damatto RL, Pagan LU, Okoshi MP. Influência do exercício físico, aeróbio ou resistido, sobre a musculatura esquelética de ratos com infarto do miocárdio. In: 30º Congresso de Iniciação Científica da Unesp, 2018, Botucatu. Anais - 30º Congresso de Iniciação Científica da Unesp, 2018. p. 2018.
 26. Morais CS, Ota GE, Carvalho MR, Oliveira PCS, Cruz ADFC, **Gomes MJ**, Okoshi K, Okoshi MP, Oliveira Junior S, Martinez PF. Influência da associação entre

creatinina e exercício físico intervalado de alta intensidade sobre o metabolismo glicêmico e morfologia cardíaca em ratos. Revista da Sociedade de Cardiologia do Estado de São Paulo, 2017. v. 27. p. 294.

27. Damatto FC, **Gomes MJ**, Damatto RL, Okoshi MP. Influência do exercício físico, aeróbio ou resistido, sobre a musculatura esquelética de ratos com infarto do miocárdio. In: XXIX Congresso de Iniciação Científica da Unesp, 2017, Botucatu. Congresso de Iniciação Científica da Unesp, 2017
28. Rosa CM, Campos DHS, Reyes DRA, Pagan LU, **Gomes MJ**, Damatto FC, Fernandes AAH, Okoshi MP, Oloshi K. Inhibition of the sodium-glucose co-transporter protein type 2 decreases oxidative stress and improve cardiac remodeling in rats with Diabetes Mellitus. The FASEB Journal, 2016. v. 30. p. LB570.
29. Rosa CM, Campos DHS, Reyes DRA, Pagan LU, **Gomes MJ**, Damatto FC, Fernandes AAH, Okoshi MP, Okoshi K. O remodelamento cardíaco em ratos com Diabetes Mellitus é atenuado pelo bloqueio da proteína cotransportadora de sódio-glicose tipo 2. Rev Soc Cardiol Estado de São Paulo, 2016. v. 26. p. 119.
30. Reyes DRA, Rosa CM, **Gomes MJ**, Damatto RL, Pagan LU, Campos DHS, Depra IC, Fernandes AAH, Okoshi K, Okoshi MP. Efeito do antioxidante N-acetilcisteína sobre o estresse oxidativo e a remodelação cardíaca de ratos com insuficiência cardíaca induzida por sobrecarga pressórica persistente. Arquivos Brasileiros de Cardiologia, 2016. v. 107. p. 9.
31. Pagan LU, Damatto RL, Cezar MDM, Campos DHS, Lima ARR, Bonomo C, **Gomes MJ**, Moukbel Y, Okoshi MP, Okoshi K. Influence of physical exercise on cardiac remodeling in spontaneously hypertensive rats. European Heart Journal, 2015. v. 36. p. 157.
32. Lima ARR, Damatto RL, Pagan LU, **Gomes MJ**, Bonomo C, Cezar MDM, Damatto FC, Gaiolla PSA, Okoshi K, Okoshi MP. GH differentially modulates skeletal muscle proteins in rats with aortic stenosis-induced heart failure. European Heart Journal, 2015. v. 36. p. 671--672.
33. Bonomo C, Martinez PF, **Gomes MJ**, Lima ARR, Pagan LU, Damatto RL, Fernandes DC, Laurindo FR, Okoshi K, Okoshi MP. Apocynin attenuates systolic dysfunction and decreases superoxide generation in soleus muscle of heart failure rats. European Heart Journal, 2015. v. 36. p. 497.
34. Pagan LU, Damatto RL, Cezar MDM, Moukbel Y, Lima ARR, Bonomo C, **Gomes MJ**, Rosa C, Okoshi MP, Okoshi K. Exercise training decreases myocardial collagen III and heart failure signs rate, and improves physical performance in spontaneously hypertensive rats. FASEB Journal, 2014. v. 28.
35. Lopes V, Oliveira Junior S, Cezar MDM, Damatto RL, Bonomo C, Pagan LU, Lima ARR, **Gomes MJ**, Zornoff L, Okoshi K, Okoshi MP, Martinez PF. Influence of late N-acetylcysteine administration on cardiac remodeling in long-term follow-up postinfarction rats. FASEB Journal, 2014. v. 28.
36. Damatto RL, Pagan LU, Lima ARR, Bonomo C, **Gomes MJ**, Damatto FC, Oliveira Junior S, Cezar MDM, Okoshi K, Okoshi MP. Prolonged physical exercise increases functional capacity and reduces myostatin expression in soleus muscle of spontaneously hypertensive rat with heart failure. European

Heart Journal, 2014.

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41. Correa TC, **Gomes MJ**, Santos GS, Silva CR, Rodrigues SG, Loosli NS, Pacagnelli FL, Fernani DCGL, Lopes GAP. A relação da idade, índice de massa corporal e tempo de tratamento fisioterapêutico com o desenvolvimento motor de crianças com síndrome de Down. In: IV Congresso internacional de saúde da criança e do adolescente, 2012, São Paulo. Anais IV Congresso internacional de saúde da criança e do adolescente, 2012.
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44. Oishi LM, Ribeiro NX, Anzolin CC, **Gomes MJ**, Raso V. A PSE pode ser usada para predizer a intensidade de exercício com pesos para mulheres idosas. In: Encontro de Ensino, Pesquisa e Extensão, 2011, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2009. p. 428.
45. Gargantini RC, **Gomes MJ**, Oliveira WGA, Cacefo AC, Muchiut APL, Goya T, Carneiro NH. Força de preensão manual em idosos de diferentes faixas etárias. In: Encontro de Ensino, Pesquisa e Extensão, 2011, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2011. p. 438.
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- Carneiro NH. Força de preensão manual em idosos praticantes de exercício físico supervisionado e não supervisionado. In: Encontro de Ensino, Pesquisa e Extensão, 2011, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2011. p. 439.
47. Anzolin CC, **Gomes MJ**, Ribeiro NX, Oishi LM, Raso V. Frequência cardíaca máxima predita por diferentes equações em indivíduos vivendo com HIV/AIDS. In: Encontro de Ensino, Pesquisa e Extensão, 2011, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2011. p. 440.
48. Ribeiro NX, Oishi LM, Anzolin CC, **Gomes MJ**, Raso V. Mulheres idosas executam maior número de repetições do que o esperado para a intensidade. In: Encontro de Ensino, Pesquisa e Extensão, 2011, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2011. p. 443.
49. Salmazo AS, Silva MS, Fell RF, Santos SMT, Gomes GCC, Prado MTA, **Gomes MJ**, Farias MP, Fernani DCGL, Trevisan ACC. Acompanhamento do crescimento e desenvolvimento através do inventário Portage operacionalizado em crianças de creche. In: Encontro de Ensino, Pesquisa e Extensão, 2009, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2009. p. 521.
50. Trevisan ACC, Salmazo AS, Silva MS, Fell RF, Santos SMT, Gomes GCC, Prado MTA, **Gomes MJ**, Limas MMR, Ramos Junior M, Amorim AP, Farias MP, Fernani DCGL. Acompanhamento do crescimento e desenvolvimento através da Escala de Desenvolvimento Motor em crianças de creche. In: Encontro de Ensino, Pesquisa e Extensão, 2009, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2009. p. 522.
51. Maragoni MA, Cavalcante MA, Alves MJ, Pacagnelli PL, **Gomes MJ**, Anzolin CC, Balarim Junior P. Influência do treinamento aeróbio associado com o resistido nos parâmetros cardiovasculares, qualidade de vida e ganho de força em indivíduos cardiopatas. In: Encontro de Ensino, Pesquisa e Extensão, 2009, Presidente Prudente. Suplemento Especial - Colloquium Vitae, 2009. p. 584.

ORAL PRESENTATIONS

Guest Speaker

2022 Dean's Development Council – "New Faculty Hot Topics"
Lecture: Searching for a Treatment for Loss of Muscle.

Guest Lectures

2022 KINE 681, Graduate Program in Kinesiology, Texas A&M University, College Station, TX
Lecture: skeletal myopathy and exercise intolerance in heart failure.

2020 Graduate Program: Animal Science, University of West Paulista, SP, Brazil
Lecture: Heart failure-induced skeletal muscle abnormalities: Effects of exercise training.

Meeting Presentations

- 2015 Congress of the Society of Cardiology of the State of São Paulo.
Sao Paulo, SP, Brazil.
“Influence of physical exercise on oxidative stress, MAPK and NF-kappa B in the soleus muscle of rats with heart failure.”

POSTER PRESENTATIONS (selected)

- 2018 International SCWD Conference on Cachexia, Sarcopenia and Muscle Wasting
“High-intensity interval training improves oxidative stress and energetic metabolism in skeletal muscle of infarcted rats.”
Maastricht, Netherlands.
- 2017 Annual Meeting of the American Society for Gravitational and Space Research
“Effect of EUK-134 on nNOS translocation and membrane repair proteins in unloaded skeletal muscle.”
Seattle, WA, USA.
- 2016 European Society of Cardiology Congress
“Beneficial effects of physical exercise on functional capacity and skeletal muscle oxidative stress in rats with aortic stenosis-induced heart failure.”
Rome, Italy.
- 2014 Experimental Biology Meeting
“Exercise training and MAPK protein expression in rats with heart failure.”
San Diego, CA, USA.
- 2016 Brazilian Congress on Heart Failure.
“High-intensity interval exercise in rats with myocardial infarction.”
Campos do Jordão, SP, Brazil.
- 2014 Congress of the Society of Cardiology of the State of São Paulo
“Aerobic exercise in rats with pressure overload-induced heart failure.”
São Paulo, SP, Brazil.
- 2012 Brazilian Congress on Metabolism, Nutrition and Exercise.
“Anthropometric and motor profile of institutionalized children with Down syndrome.”
Londrina, PR, Brazil.

2010 International Physical Therapy Congress of UNESP.
"Effects of combined aerobic and resistance training in cardiac patients."
Presidente Prudente, SP, Brazil.

HONOR AND AWARDS

2015 First place in the oral presentation form of Physical Therapy Symposium of Congress
Rev Soc Cardiol Estado de Sao Paulo, 2015; 25(2b): 230.

2012 Best student of the XXIX Class of Physical Therapy
University of West Paulista, Brazil.

INSTITUTIONAL SERVICE

Departmental

2022 - Present Member, Huffines Institute's Internal Advisory Council
Huffines Institute, Department of Kinesiology and Sport Management, Texas A&M University

ADDITIONAL SERVICE TO THE PROFESSION

2022 *Judge*
Texas Junior Academy of Science

2021 *Guest editor*
Special issue "Oxidative Stress and Heart Failure: Mechanisms, Signalling Pathways, and Therapeutics" in Oxidative Medicine and Cellular Longevity

2021 *Guest editor*
Research topic "Skeletal Muscle Abnormalities Associated with Cardiac Remodeling and Heart Failure" in Frontiers in Physiology

2019 - Present *Manuscript reviewer*
European Journal of Nutrition
Open Medicine
Arquivos Brasileiros de Cardiologia

TEACHING/MENTORING EXPERIENCE

2017 - 2019 **Co-mentor**, Botucatu Medical School, Sao Paulo State University

- Lidiane Moreira de Souza (Master's degree in Physiopathology in Internal Medicine). Influência do exercício físico intervalado sobre a musculatura

esquelética de ratos com infarto do miocárdio [Influence of physical exercise on skeletal muscle of rats with myocardial infarction].

2018 **Graduate Teaching Assistant**, Botucatu Medical School, Sao Paulo State University

- Subject: Public Health/ Course: Nursing (May-Jun 2018)
- Subject: Biochemistry/ Course: Medicine (Jul-Dec 2018)

THESIS AND DISSERTATION COMMITTEES

Doctoral Dissertation Committee Member

- Jessica Leite Garcia (Botucatu Medical School, Pathology). Influência da intervenção com gamma-orizanol na prevenção da síndrome metabólica cardiorenal em ratos obesos [The influence of gamma-oryzanol intervention on the prevention of cardiorenal metabolic syndrome in obesity rat model]. (2022)
- Thaoan Bruno Mariano (University of West Paulista, Physiopathology and Animal Science). Efeito do teinamento preventivo no transcriptoma cardíaco de ratos com hipertensão pulmonar e tradução para o português da ferramenta de risco de viés [Effect of preventive training on cardiac transcriptome in rats with pulmonary hypertension, and translation to Portuguese of the risk of bias tool]. (2022)

Master's Thesis Committee Member

- Leiliane Rodrigues dos Santos Oliveira (Botucatu Medical School, Physiopathology in Internal Medicine). Efeitos do exercício físico intervalado no remodelamento cardíaco e em vias relacionadas à hipertrofia de ratos espontaneamente hipertensos [Effects of physical exercise on cardiac remodeling and anabolic pathways in spontaneously hypertensive rats]. (2022)
- Talita Rizo Pereira (University of West Paulista, Animal Science). Avaliação cardíaca da suplementação com L-arginina em ratos submetidos ao 5-Fluorouracil [Cardiac evaluation of L-arginine supplementation in rats subjected to 5-Fluorouracil]. (2021)

Comprehensive Exams Committee

- Leiliane Rodrigues dos Santos Oliveira (Botucatu Medical School, Physiopathology in Internal Medicine). Efeitos do exercício físico intervalado no remodelamento cardíaco e em vias relacionadas à hipertrofia de ratos espontaneamente hipertensos [Effects of physical exercise on cardiac remodeling and anabolic pathways in spontaneously hypertensive rats]. (2021)