# ***CURRICULUM VITAE***

## *July 2022*


## Leonardo Nogueira, Ph.D.

Born July 25, 1977, in Rio de Janeiro, RJ, Brazil. Lawful permanent resident of the US.

*Work Address*: School of Exercise and Nutritional Sciences. 5500 Campanile Drive, ENS building, Room 302, San Diego, CA, 92182-7251

*Lab address:* San Diego State University Research Foundation, 6361 Alvarado Court, San Diego, CA 92120

e-mail: lnogueira@sdsu.edu

Linked in profile: https://www.linkedin.com/in/leonardo-nogueira-phd-597138b5/


### Appointments

2022-present **Assistant Professor** (Tenure-track), School of Exercise and Nutritional Sciences, College of Health and Human Services, San Diego State University

2021-2022 **Associate Research Scientist,** Section of Physiology, Division of Pulmonary, Critical Care & Sleep Medicine Department of Medicine, University of California San Diego

2017-2021 **Assistant Research Scientist,** Section of Physiology, Division of Pulmonary, Critical Care & Sleep Medicine Department of Medicine, University of California San Diego

2017-2017 **Associate Professor (Tenured),** Medical Biochemistry Institute (IBqM), Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

2014-2017 **Assistant Professor,** Medical Biochemistry Institute (IBqM), Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

2013-2014 **Research Fellow (CAPES/Brazil),** Medical Biochemistry Institute (IBqM), Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

2009-2013 **Postdoctoral Fellow,** Division of Physiology, Department of Medicine, University of California San Diego, Mentor: Michael C. Hogan, Ph.D.

2008-2009 **Postdoctoral Fellow,** Division of Allergy, Pulmonary and Critical Care Medicine, Duke University Medical Center, Mentor: Jonathan S. Stamler, M.D.

2004-2008 **Lecturer**. Departments of Kinesiology and Physical Therapy, Estacio de Sa University, Rio de Janeiro, Brazil.

### Education and Scientific training

2008 **Ph.D. Biological Sciences (Biochemistry),** Theme: S-nitrosylation of skeletal muscle proteins
Medical Biochemistry Institute (IBqM), Federal University of Rio de Janeiro, Rio de Janeiro, Brazil
Advisor: Martha M. Sorenson, Ph.D.

2003 **M.Sc. Biological Sciences (Biochemistry),** Theme: Nitric oxide and skeletal muscle myosin activity, Medical Biochemistry Institute (IBqM), Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, Advisor: Martha M. Sorenson, Ph.D.

2001 **B.Sc. Physical Education (Kinesiology),** Major: Exercise Physiology, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

## Teaching Experience

2014-2017 Federal University of Rio de Janeiro, School of Medicine,
**Courses taught:** Integrative human biochemistry

2004-2008 Estacio de Sa University, Departments of Kinesiology and Physical Therapy, Rio de Janeiro, Brazil
**Courses taught:** Biochemistry, Exercise Physiology, and Human Physiology

2003-2007 **Guest Lecturer**, Exercise Biochemistry (Physiology/Biochemistry of Muscle Contraction, Mechanisms of Muscle Fatigue, Acute and Chronic Adaptations of Exercise Training) Federal University of Rio de Janeiro, Brazil.

2004 **Graduate Teaching Assistant**, General Biochemistry (Proteins and Enzymes), Federal University of Rio de Janeiro, Brazil.

2002 **Graduate Teaching Assistant**, General Biochemistry (Bioenergetics), Federal University of Rio de Janeiro, Brazil.

## Mentoring Experience

### Graduate Students (Thesis Advisor)

2014 – 2018 Aline Miyoko Sakaguchi Yamashita - Ph.D. graduate student (IBqM - UFRJ Brazil)
The role of S-nitrosylation/denitrosylation balance in cell signaling during myogenesis.
Current position: University of Minnesota Medical School (Post-doctoral fellow, Mentor: Dr. Rita Perlingeiro, Ph.D.)

2015 – 2018 Frederico Luis Lima Rosa - M.Sc. graduate student (IBqM - UFRJ Brazil), The consequences of chronic cigarette smoke extract treatment on intact muscle contractile function.
Current position: UFRJ Biophysics Department (PhD candidate)

2019 – 2021 Nicole Stevens, BS/MS graduate student (UCSD). The consequences of short-term and long-term cigarette smoke exposure in mice on satellite cell activation and muscle regeneration after muscle overuse damage. Current position: PCI pharma services (Clinical Associate Project Manager)

2019 – 2021 Natalie Gilmore, BS/MS graduate student (UCSD). The role of S-nitrosoglutathione reductase on skeletal muscle contractile function during recovery from fatigue. Current position: Division of Cardiology, UCSD (Research assistant at Dr. Robert Ross Lab)

2022 – present Megan Mattson, BS/MS graduate student candidate (UCSD). Contributions of muscle damage and muscle contractions to sustained hypoxia-induced muscle gain of force in mice subjected to lengthening contractions.

2022 – present Christina Do, BS/MS graduate student candidate (UCSD). Effects of cigarette smoke extract treatment in vivo on muscle satellite cell proliferation and fate.

**Undergraduate Students (Research Advisor)**

2011 – 2013 Amy A. Shiah - UCSD undergraduate student.
2015 – 2017 Maryana Tavares de Campos Ancillotti – UFRJ undergraduate student
2019 – 2020 Ehson Souresrafil – UCSD undergraduate student
2019 – 2020 Daniel Davila – UCSD undergraduate student
2019 – 2020 Heather Otto - UCSD undergraduate student
2019 – 2020 Erin Rosales – UCSD undergraduate student
2019 – 2020 Namphuong Nguyen – UCSD undergraduate student
2021 – 2021 Timothy Chuong - UCSD pre-med student
2021 – Present Yiyi Shen - UCSD undergraduate student

## Professional Membership

American Physiological Society - Environmental & Exercise Physiology Section
American College of Sports Medicine

## Research Support

**Current**
Performance Period: 08/16/2022 – 08/15/2025
Project Title: Mechanisms of COPD sustained muscle inflammation impeded myofiber repair and function
Supporting Agency: Tobacco-Related Disease Research Program (TRDRP) Research Award (T32IR5221)
Level of Funding: $1,166,328
Project goals: The overall hypothesis of this proposal is that CS exposure leads to a sustained pro-inflammatory signaling in peripheral muscles that activates a premature differentiation of MuSC, impairing myofiber re-gain of function during muscle regeneration.
Role: Principal Investigator

Performance Period: 07/01/2022 – 06/30/2025
Project Title: Targeting IL-33 for the treatment of SARS-CoV 2 respiratory disease in smokers
Supporting Agency: Tobacco-Related Disease Research Program (TRDRP) Research Award (T32IR4683)
Level of Funding: $1,170,000
Project goals: The main goals for this proposal are: 1. Elucidate the mechanism by which prolonged activation of IL-33 and IL-1ß in smoke-exposed epithelial cells, organoids and mice provokes a hyperinflammatory response to SARS-CoV-2. Viral load, cytokines and lung function in response to wild-type IL-33 and IL-1ß and persistently active mutants will be measured. Serum IL redox state will be assessed in COVID-19 patients to predict how these values correspond to inflammatory cytokines and severe symptoms. 2. Design IL-RAs to effectively dampen the aberrant SARS-CoV-2 initiated cytokine signaling in a smoke-exposed lung environment.
Role: Sub-contractor (PI: Breen/Jennings)

Performance Period: 04/01/2019 – 03/31/2023
Title: Cigarette smoke effects on nitric oxide-dependent muscle regeneration
Supporting Agency: Tobacco-Related Disease Research Program (TRDRP) New Investigator Award (T29KT0397)
Level of funding: $750,000
Project Goals: The overall hypothesis of this proposal is that cigarette smoke (CS) exposure leads to a decrease in skeletal muscle mass due to the dysregulation of nitric oxide (NO)-dependent signaling between myofibers and muscle satellite cells (MuSC) that inhibits muscle repair.
Role: Principal Investigator

Performance period: 11/01/2017 – 12/31/2022
Title: Assessing and alleviating $Ca^{2+}$-handling dysfunction in sarcopenia
Supporting Agency: NIH/NIAMS, 1R56AG047929
Level of funding: $1,705,000
Project Goals: The overall hypothesis of this grant is that cellular O2, at levels above those limiting respiration, induce alterations in the intracellular milieu (including ROS) that affect the different aspects of Ca2+ handling, leading to exercise-induced Ca2+-dysregulation.
Role: Co-Investigator (PI: Hogan)

Performance period: 07/01/2020 – 6/30/2022
Title: Role of Perm1, a novel mitochondrial regulatory protein in cardiac ischemia
Supporting Agency: Tobacco-Related Disease Research Program (TRDRP), Pilot Project Grant (T31IP1606)
Level of funding: $400,000
Project Goals: To test whether cigarette smoke exposure interferes with Perm1 expression in cardiac muscle, thereby impacting in Perm1-dependent preservation of mitochondrial function during ischemia reperfusion (I/R)-induced injury.
Role: Co-Investigator (PI: Cho)

**Previous**
Performance period: 08/19/2020 – 6/30/2022
Title: Walk this way: leveraging of a unique skeletal muscle that is resistant to ischemic injury
Supporting Agency: NIH/NIAMS, 1R61AR078100-01
Level of funding: $ 382,806
Project Goals: To leverage already identified genes that are critical to the generation of adenosine triphosphate and manipulate genes that are able to stabilize the sarcolemma during ischemic conditions to prevent excitotoxicity.
Role: Sub-contractor (PI: Spangenburg)

Title: The role of nitrite reductase activity on muscle function and fatigue resistance
Supporting agency: Ministry of Science - CNPq (Brazil)
Performance period: 03/01/2017 – 02/28/2019
Level of funding: US $6,500.00
Role: Principal Investigator

Title: The role on systemic inflammation on skeletal muscle function
Supporting agency: FAPERJ – APQ1 (Brazil)
Performance period: 08/01/2014 – 07/31/2015
Level of funding: US $7,000.00
Role: Principal Investigator

Title: Molecular mechanisms of cigarette smoking on skeletal muscle function
Supporting agency: CAPES (Brazil)
Performance period: 01/05/2014 – 08/13/2015
Level of funding: US $40,000.00
Role: Principal Investigator

## Journal Reviewer

Journal of Applied Physiology
The Journal of Physiology
American Journal of Physiology Cell Physiology
Respiratory Physiology and Neurobiology
Applied Physiology, Nutrition and Metabolism
Plos One

Cell Biology International
Sports Medicine & Health Science
Pulmonary Circulation

## Honors and Awards

2019 New Investigator Award, Tobacco-Related Diseases Research Program (TRDRP), University of California Research Grants Program Office.

2007 International Travel Grant to attend the V meeting of SFRBM
South American Group and V International Conference on Peroxynitrite and Reactive Nitrogen Species, Montevideo, Uruguay.

2003–2008 Graduate (Ph.D.) study fellowship (CNPq - Brazil)

2001–2003 Graduate (M.Sc.) study fellowship (Grant Agency: CAPES - Brazil)

2000–2001 Undergraduate research fellowship (Grant Agency: CNPq - Brazil)

## University Service

- **Academic Committee Member**

**- Master thesis defense:**
2015 – Luiz Felipe Garcia e Souza: Biological Sciences (Biochemistry) – Federal University of Rio de Janeiro, Brazil.
2015 – Anderson Ferreira da Silva Porto: Biological Sciences (Physiology) – Federal University of Rio de Janeiro, Brazil
2015 – Nathália Rocco Machado: Biological Sciences (Biochemistry) – Federal University of Rio de Janeiro, Brazil.
2015 – Monique Passos da Silva Carrilho: Exercise Sciences - Federal University of Rio de Janeiro, Brazil.
2016 – Luiz Fernando Carvalho Kelly: Biological Sciences (Biochemistry) – Federal University of Rio de Janeiro, Brazil.
2016 – Vinícius Rodrigues de Araújo: Biomedical Sciences (Experimental Physiopathology) – Rio de Janeiro State University, Brazil.

**- PhD. Thesis defense:**
2015 – Ruy Andrade Louzada Neto: Biological Sciences (Physiology) – Federal University of Rio de Janeiro, Brazil.
2017 – André Felipe Batista: Biological Sciences (Biochemistry) – Federal University of Rio de Janeiro, Brazil.

- **Other services**

2014 – 2017 Biohazard and chemical hazard security committee. Federal University of Rio de Janeiro

2018 – 2022 Physiological Science Seminar organizer. University of California San Diego. This is the Seminars Series from the Physiology Section (Division of Pulmonary, Critical Care and Sleep Medicine), that occurs weekly. In this seminar series, world-renowned scientists in all fields of physiology and molecular biology are invited to present their most recent achievements. The seminars are advertised to different departments at UCSD and other institutions. I am responsible for choosing, inviting, hosting the seminars and introducing the speakers.

2021 – 2022 Medical Scientist Training Program (MD/PhD) Admissions Committee Member. School of Medicine, UCSD.

2022 – Present Editorial board – Journal of Applied Physiology

2022 – Present Editorial board – Frontiers in Physiology (Striated Muscle Physiology)

**Peer-reviewed publications**

1. **Nogueira, L.**, Gilmore, N.K., and Hogan, M.C. Fatigue-induced changes in force and intracellular cytosolic calcium transients in intact single myofibers from parvalbumin conditional knockout mice. *J Appl Physiol,* 132: 1041-1053, 2022. Doi: 10.1152/japplphysiol.00861.2021. Pubmed PMID: 35238653

2. Cannon, D.T., **Nogueira, L.**, Gutierrez-Gonzalez, A.K., Gilmore, N.K., Bigby, T.D., and Breen, E.C. Role of IL-33 receptor (ST2) deletion in diaphragm contractile and mitochondrial function in the Sugen5416/hypoxia model of pulmonary hypertension. *Resp Physiol Neurobiol.* 295:103783, 2021. doi: 10.1016/j.resp.2021.103783. Pubmed PMID: 34508866.

3. **Nogueira L** and Breen E.C. (Invited Editorial) Cigarettes Make You Weak: RANKL/RANK Link Changes in Muscle and Bone. *Am J Respir Cell Mol Biol.* 64:533-535, 2021. doi: 10.1165/rcmb.2021-0098ED. PubMed PMID: 33711242.

4. Cocksedge, S.P., Breese, B.C., Morgan, P.T., **Nogueira, L.**, Thompson, C., Wylie, L.J., Jones, A.M., and Bailey, S.J. Influence of muscle oxygenation and nitrate-rich beetroot juice supplementation on $O_2$ uptake kinetics and exercise tolerance. *Nitric Oxide* 99: 25-33, 2020. PMID: 32272260

5. Bailey, S.J., Gandra, P.G., Jones, A.M., Hogan, M.C., and **Nogueira, L**. Incubation with sodium nitrite attenuates fatigue development in intact single mouse fibres at physiological PO2. *J. Physiol.* 597: 5429-5443, 2019, PMID: 31541562.
   *Response to the Letter to the Editor. *J. Physiol.* 2020 doi: 10.1113/JP279621. Epub ahead of print, PMID: 32058587.

6. **Nogueira L**., Trisko B.M., Lima-Rosa F.L., Jackson J., Lund-Palau H., Yamaguchi M., and Breen E.C. Cigarette smoke directly impairs skeletal muscle function through capillary regression and altered myofibre calcium kinetics in mice. *J. Physiol.* 596: 2901-2916, 2018.

7. Gandra, P.G., Shiah, A.A., **Nogueira, L.**, and Hogan, M.C. A mitochondrial-targeted antioxidant improves myofilament $Ca^{2+}$ sensitivity during prolonged low frequency force depression at low $PO_2$. *J. Physiol.* 596: 1079-1089, 2018, PMID: 29334129.

8. Yamashita, A.M.S., Ancillotti, M.T.C., Rangel, L.P., Fontenele, M., Figueiredo-Freitas, F., Possidonio, A.C., Soares, C.P., Sorenson, M.M., Mermelstein, C., and **Nogueira, L.** Balance between S-nitrosylation and denitrosylation modulates myoblast proliferation independently of soluble guanylyl cyclase activation. *Am J. Physiol. Cell Physiol. 313: C11–C26, 2017. PMID: 28381519.*

9. Figueiredo-Freitas C., Dulce R.A., Foster M.W., Liang J., Yamashita A.M., Lima-Rosa F.L., Thompson J.W., Moseley M.A., Hare J.M., **Nogueira L.**, Sorenson M.M., and Pinto J.R. S-Nitrosylation of Sarcomeric Proteins Depresses Myofilament $Ca^{2+}$-Sensitivity in Intact Cardiomyocytes. *Antioxid. Redox Signal. 23: 1017-1034, 2015. PMID: 26421519.*

10. Moreno-Ulloa A., **Nogueira L.**, Rodriguez A., Barboza J., Hogan M.C., Ceballos G., Villarreal F.H., and Ramirez-Sanchez I. Recovery of Indicators of Mitochondrial Biogenesis, Oxidative Stress, and Aging With (-)-Epicatechin in Senile Mice. *J. Gerontol. A Biol. Sci Med. Sci. 70: 1370-1378, 2015. PMID: 25143004.*

11. Delavar H., **Nogueira L.**, Wagner P.D., Hogan M.C., Metzger D., and Breen E.C. Skeletal myofiber VEGF is essential for the exercise training response in adult mice. *Am. J. Physiol. Reg. Integr. Comp. Physiol. 306: R586-595, 2014. PMID: 2452334.*

12. Gutierrez-Salmean G., Ciaraldi T.P., **Nogueira L.**, Barboza J., Taub P.R., Hogan M.C., Henry R.R., Meaney E., Villarreal F.H., Ceballos G., and Ramirez-Sanchez I.. Effects of (-)-epicatechin on molecular modulators of skeletal muscle growth and differentiation. *J. Nutr. Biochem. 25: 91-94, 2014. PMID: 24314870*

13. Ramirez-Sanchez I., Taub P.R., Ciaraldi T.P., **Nogueira L.**, Coe T., Perkins G., Hogan, M.C., Maisel A.S., Henry R.R., Ceballos G., and Villarreal F.H. (-)-Epicatechin rich cocoa mediated modulation of oxidative stress regulators in skeletal muscle of heart failure and type 2 diabetes patients. *Int. J. Cardiol. 168:3982-90, 2013. PMID: 23870648*

14. Tang, K., Murano, G., Wagner, H., **Nogueira, L.**, Wagner, P.D., Tang, A., Dalton, N.D., Gu, Y., Peterson, K.L., and Breen, E.C. Impaired exercise capacity and skeletal muscle function in a mouse model of pulmonary inflammation. *J. Appl. Physiol. 114:1340-1350, 2013. PMID: 23449936*.

15. **Nogueira, L.**, Shiah, A., Gandra, P.G., and Hogan, M.C. $Ca^{2+}$-Pumping Impairment during Repetitive Fatiguing Contractions in Single Myofibers: Role of Cross-Bridge Cycling. *Am. J. Physiol. Reg. Integr. Comp. Physiol. 305:R118-R125, 2013. PMID: 23678027.*

16. Ramirez-Sanchez, I., **Nogueira, L.**, Moreno, A., Murphy, A., Taub, P.R., Perkins, G., Ceballos, G., Hogan, M.C., Malek, M.L., and Villarreal, F. Stimulatory effects of the flavanol (-)-epicatechin on cardiac angiogenesis: Additive effects with exercise. *J. Cardiovasc. Pharmacol. 60: 429-438, 2012. PMID: 22833114.*

17. Gandra, P.G., **Nogueira, L.**, and Hogan, M.C. Mitochondrial activation at the onset of contractions in isolated myofibres during successive contractile periods. *J. Physiol. 590: 3597-3609, 2012. PMID: 22711953*

18. **Nogueira, L.**, Ramirez-Sanchez, I., Perkins, G., Murphy, A., Taub, P.R., Ceballos, G., Villarreal, F., Hogan, M.C. and Malek, M.L. (-)-Epicatechin enhances fatigue resistance and oxidative capacity in mouse muscle. *J. Physiol. 589: 4615-4631, 2011. PMID: 21788351*

19. Sun, Q.A., Hess, D.T., **Nogueira, L.**, Yong, S., Bowles, D.E., Eu, J., Laurita, K.R., Meissner, G., and Stamler, J.S. Oxygen-coupled redox regulation of the skeletal muscle ryanodine receptor-$Ca^{2+}$ release channel by NADPH oxidase 4. *Proc. Natl. Acad. Sci. USA. 108: 16098-16103, 2011. PMID: 21896730*

20. Zuo, L., **Nogueira, L.**, and Hogan, M.C. Reactive oxygen species formation during tetanic contractions in single isolated *Xenopus* myofibers. *J. Appl. Physiol. 111: 898-904, 2011. PMID: 21700897*

21. Zuo, L., **Nogueira, L.**, and Hogan, M.C. Effect of pulmonary TNF-α overexpression on mouse isolated skeletal muscle function. *Am. J. Physiol. Reg. Integr. Comp. Physiol. 301: R1025-R1031, 2011. PMID: 21697519*

22. **Nogueira, L.**, and Hogan, M.C. Phenol increases intracellular [$Ca^{2+}$] during twitch contractions in intact *Xenopus* skeletal myofibers. *J. Appl. Physiol. 109: 1384-1393, 2010. PMID: 20724558*

23. **Nogueira, L.**, Figueiredo-Freitas, C., Casimiro-Lopes, G., Magdesian, M.H., Assreuy, J., and Sorenson, M.M. Myosin is reversibly inhibited by *S*-nitrosylation. *Biochem. J. 424: 221-231, 2009. PMID: 19747166*

24. Forrester, M.T., Thompson, J.W., Foster, M.W., **Nogueira, L.**, Moseley, M.A., and Stamler, J.S. Proteomic analysis of *S*-nitrosylation and denitrosylation by resin-assisted capture. *Nature Biotechnol. 27: 557-559, 2009. PMID: 19483679*

## Manuscripts in review

1. **Nogueira, L.**, Yusufi, R., Ranjbar, M., Susanto, C., Zemljic-Harpf, A., Tang, K., Mahata, S.K., Jennings, P.A., and Breen, E.C. E-cigarette vapor deteriorates mouse skeletal muscle function and prevents recovery from injury. *In review (Am J Physiol Reg Comp Physiol)*.

## Invited seminars and symposiums

1. Cigarette smoke exposure effects on muscle repair after injury. In: Annual CPGLO meeting, La Jolla, CA, 2021
2. Skeletal muscle function at physiological $PO_2$ conditions. In: Annual CPGLO meeting, La Jolla, CA, 2018
3. Inhibition of myosin ATPase results in prolonged SERCA function during fatiguing contractions in single skeletal muscle fibers. In: ACSM 58$^{th}$ Annual Meeting, Denver, CO, 2011.
4. Skeletal Muscle Calcium Handling and SERCA Function during Exercise. In: SWACSM Chapter Meeting, San Diego, CA, 2010.

## Selected Abstract Communications (from 30+)

1. **Nogueira, L.** and Hogan, M.C. Fatigue-induced changes in intracellular calcium transients in single myofibers from parvalbumin conditional knockout mice. In: ACSM Conference on Integrative Physiology of Exercise, San Diego, CA, 2018.
2. Gilmore, N. K., Hogan, M. C., **Nogueira, L.** Acute inhibition of the S-nitrosoglutathione reductase (GSNOR) in isolated fast-twitch muscle delays the contractile recovery post-fatigue. In: Alternative Muscle Club Meeting, 2018, La Jolla, CA.
3. **Nogueira, L.**; Tachibana, S., Gilmore, N. K., Etxaniz, U., Puri, P. L., Hogan, M. C., Ross, R.S., Cho, Y. Overexpression of Perm1 in skeletal muscles recovers the denervation induced decrease in mitochondrial proteins but did not alter the changes in muscle contractility. In: Alternative Muscle Club Meeting, 2018, La Jolla, CA.
4. Gilmore, N. K.; Hogan, M. C., **Nogueira, L.** Nitric oxide dependent delay in post-fatigue contractile recovery in isolated fast-twitch muscle: The role of the S-nitrosoglutathione reductase. In: Experimental Biology Meeting, 2019, Orlando, FL. The FASEB Journal, 2019. v. 33. p. 538.6-538.6.
5. **Nogueira, L.** and Breen, E.C. Enhanced $O_2$-Dependent Mitochondrial Activation in Myofibers from CMP N-Glycolylneuraminic Acid Hydroxylase (Cmah) Gene Inactivated Mice. In: Biophysical Society Meeting, 2020, San Diego. Biophysical Journal, 2020. v. 118. p. 450A-450A.
6. **Nogueira, L.**, Svensson, K., Schenk, S., and Hogan, M.C., $PO_2$-dependent changes in contractility and mitochondrial activation in single myofibers from young and old mice. In: American College of Sports Medicine Meeting. 2020, San Francisco.
7. Stevens, N., Davila, D., De-Perio, M., Souresrafil, E., Nguyen, N., Hogan, M.C., Breen, E.C., and **Nogueira, L.** Cigarette Smoke Exposure in Mice Impairs Force Development of Injured Fast-Twitch Skeletal Muscles. In: Experimental Biology Meeting 2020, San Diego.
8. Gilmore, N.K., Hogan, M.C., and **Nogueira, L.** Inhibition of S-nitrosoglutathione Reductase During Contractions Slows Recovery of Low-Frequency Force in Isolated Fast-twitch Muscle and in Intact Single Myofibers. In: Experimental Biology Meeting 2020, San Diego.

9. **Nogueira, L.**, Tachibana, S., Lam K., Khosrowjerdi S., Gilmore, N., Etxaniz, U., Puri, P.L., Hogan, M.C., Ross, R.S., and Cho, Y. Denervation alters contractility, intracellular $Ca^{2+}$-transients, and increases fatigue resistance in skeletal myofibers. In Keystone Symposia: New Insights into the Biology of Exercise. Keystone, CO, 2020.

10. Stevens, N., Davila, D., Nguyen, N., Souresrafil, E., De-Perio, M., Vitorino, S. Breen, E.C., and **Nogueira, L**. Short-term tobacco smoke exposure delays contractile force recovery following lengthening contractions. In: Joining Forces 2020, Palm Desert, CA.

11. Stevens, N., Loreti, M., Hogan, M. C., Sacco, A., and **Nogueira, L**. Satellite cell incorporation in myofibers from anterior crural muscles of Pax7CreERTdTomato transgenic mice during the recovery of lengthening contractions. In: Integrative Exercise Physiology Conference, 2020, Online. Annal for the Integrative Exercise Physiology Conference, 2020.

12. Chuong, T.H., Mattson, M.K., Do, C.H., Shen, Y., Stevens, N.E., **Nogueira, L.** Changes in muscle force recovery and myofiber satellite cell incorporation by modulating nitric oxide signaling in vivo during muscle repair after lengthening contractions. In: Experimental Biology Meeting 2022, Philadelphia.