

Curriculum Vitae

NAME: MARIA ANDRÉIA DELBIN

Birth date: 02/13/1982

HOME ADDRESS: Rua Silva Barreto, 250

Jardim Florence – Espírito Santo do Pinhal/SP

CEP: 13.990-000

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EDUCATION:

2000-2003: Undergraduate: Physical Education UNESP/Rio Claro-SP

2005-2009: PhD: Science in Kinesiology UNESP/Rio Claro-SP

2009-2012: Post Doctoral Training: UNESP/Rio Claro-SP

2010-2011: Post Doctoral Training: The Research Institute at Nationwide Children's Hospital –Columbus-OH

2013-present: Assistant Professor: Institute of Biology UNICAMP/Campinas-SP

COMMITTEE SERVICES:

2014-present: Member of Department Committee, Institute of Biology UNICAMP/Campinas-SP

2016:present- Member of Undergraduate Committee, Institute of Biology UNICAMP/Campinas-SP

PROFESSIONAL SOCIETIES AND SCIENTIFIC COMMITTEES:

Brazilian Society of Physiology – SBFis

Brazilian Society of Pharmacology and Experimental Therapeutics – SBFTE

GRANT REVIEW ACTIVITIES

2014-present: São Paulo Research Program FAPESP

EDITORIAL ACTIVITIES

2011-present: Ad hoc reviewer Life Sciences Journal

2012-present: Ad hoc reviewer of Motriz

2015-present: Ad hoc reviewer of Experimental Biology and Medicine

2016-2017: Associate Editor of Motriz

TEACHING ACTIVITIES: Formal Course Responsibilities per year

Undergraduate Teaching: Cardiovascular Physiology (150 contact hours)

Graduate Teaching: Cardiovascular Physiology (45 contact hours)

HONOR AND PRIZES

Nominee in poster section: Pulmonary ischemia/reperfusion and vascular responsiveness in exercised rats In: XXIV Reunião Anual da Federação de Sociedade de Biologia Experimental (FeSBE), 19 a 22 de Agosto 2009, Águas de Lindóia-SP, Brasil.

Nominee in poster section: Efeitos do tratamento com L-arginina na biogênese mitocondrial, estado redox, perfil lipídico e tolerância ao esforço de ratos treinados In: XVI Simpósio Brasileiro de Fisiologia Cardiovascular, 08 a 11 de Fevereiro de 2012, Goiânia-GO, Brasil.

Nominee in poster section: Interactions between L-arginine supplementation and physical training on the cardiovascular biomarkers and antioxidante enzymes protein expression. from rat skeletal muscle In: XX Congresso da Sociedade Brasileira de Hipertensão, 02 a 05 de Agosto de 2012, São Paulo-SP, Brasil.

Nominee in In: III Simpósio de Biologia Vascular: Papel do tecido adiposo perivascular em aorta de ratos tratados com dieta de cafeteria e treinados, 16 a 17 de Maio de 2013, Ribeirão Preto-SP, Brasil.

Nominee in Pemberton Award, 3 rd Edition, Basic Science: Redução do estresse oxidativo pelo treinamento físico aeróbio melhora as respostas relaxantes em artéria femoral e corpo cavernoso de ratos alimentados com dieta hiperlipídica, 2013.

FUNDING PROJECTS

2013-2015: LEADER PROJECT FAPESP

Project: Papel do tecido adiposo perivascular em artérias aorta e femoral de camundongos treinados e tratados com dieta hiperlipídica.

Brazilian currency (R\$)	U\$
Research: 15.000,00	51.663,00
RT: 20.848,00	
Total: 35.848,00	

2015-2017: LEADER PROJECT CNPq

Project: Efeitos do treinamento físico aeróbio na doença arterial periférica e disfunção erétil de ratos obesos.

Brazilian currency (R\$)	U\$
Research: 24.000,00	
RT: -	
Total: 24.000,00	

CONFERENCE MEETING ORGANIZER

2013: XVII Symposium of Cardiovascular Physiology. 30 de Janeiro a 2 Fevereiro, Rio Claro/SP.

FORMALLY SUPERVISED TRAINEES

Undergraduate students

César Bertinato (2015: scholarship UNICAMP/PIBIC)

Current Master Degree Students

Amanda Sponton (2014-2016: scholarship FAPESP)

Andressa Silva Sousa (2014-2016: scholarship CAPES)

Current PhD Students

Aline Pincerato Jarrete (2015-2018: scholarship CAPES)

PUBLISHED PAPERS

1: Anaruma CP, Ferreira M Jr, Sponton CH, Delbin MA, Zanesco A. Heart rate variability and plasma biomarkers in patients with type 1 diabetes mellitus: Effect of a bout of aerobic exercise. *Diabetes Res Clin Pract.* 2015 Nov 26. pii: S0168-8227(15)00426-X. doi: 10.1016/j.diabres.2015.10.025.

2: Davel AP, Victorio JA, Delbin MA, Fukuda LE, Rossoni LV. Enhanced endothelium-dependent relaxation of rat pulmonary artery following beta-adrenergic overstimulation: involvement of the NO/cGMP/VASP pathway. *Life Sci.* 2015 Mar 15;125:49-56. doi: 10.1016/j.lfs.2015.01.018.

3: Araujo HN, Valgas da Silva CP, Sponton AC, Clerici SP, Davel AP, Antunes E, Zanesco A, Delbin MA. Perivascular adipose tissue and vascular responses in healthy trained rats. *Life Sci.* 2015 Mar 15;125:79-87. doi: 10.1016/j.lfs.2014.12.032.

4: Valgas da Silva CP, Delbin MA, La Guardia PG, Moura CS, Davel AP, Priviero FB, Zanesco A. Improvement of the physical performance is associated with activation of NO/PGC-1 α /pAkt signaling pathway and increased protein expressions of electron transport chain in gastrocnemius muscle from rats supplemented with L-arginine. *Life Sci.* 2015 Mar 15;125:63-70. doi: 10.1016/j.lfs.2014.12.021.

5: Maia AR, Batista TM, Victorio JA, Clerici SP, Delbin MA, Carneiro EM, Davel AP. Taurine supplementation reduces blood pressure and prevents endothelial dysfunction and oxidative stress in post-weaning protein-restricted rats. *PLoS One.* 2014 Aug 29;9(8):e105851. doi: 10.1371/journal.pone.0105851.

6: E Nico ET, de Oliveira PR, de Souza LP, Pereira FD, Delbin MA, Zanesco A, Camargo-Mathias MI. The action of aminoguanidine on the liver of trained diabetic rats. *J Diabetes Metab Disord.* 2013 Jul 9;12:40. doi: 10.1186/2251-6581-12-40.

7: Delbin MA, Trask AJ. The diabetic vasculature: physiological mechanisms of dysfunction and influence of aerobic exercise training in animal models. *Life Sci.* 2014 Apr 25;102(1):1-9. doi: 10.1016/j.lfs.2014.02.021.

8: de Araujo GG, Papoti M, Delbin MA, Zanesco A, Gobatto CA. Physiological adaptations during endurance training below anaerobic threshold in rats. *Eur J Appl Physiol.* 2013 Jul;113(7):1859-70. doi: 10.1007/s00421-013-2616-9.

9: Delbin MA, Davel AP, Couto GK, de Araujo GG, Rossoni LV, Antunes E, Zanesco A. Interaction between advanced glycation end products formation and vascular responses in

femoral and coronary arteries from exercised diabetic rats. *PLoS One*. 2012;7(12):e53318. doi: 10.1371/journal.pone.0053318.

10: Trask AJ, Delbin MA, Katz PS, Zanesco A, Lucchesi PA. Differential coronary resistance microvessel remodeling between type 1 and type 2 diabetic mice: impact of exercise training. *Vascul Pharmacol*. 2012 Nov-Dec;57(5-6):187-93. doi: 10.1016/j.vph.2012.07.007.

11: Monteiro PF, Morganti RP, Delbin MA, Calixto MC, Lopes-Pires ME, Marcondes S, Zanesco A, Antunes E. Platelet hyperaggregability in high-fat fed rats: a role for intraplatelet reactive-oxygen species production. *Cardiovasc Diabetol*. 2012 Jan 16;11:5. doi: 10.1186/1475-2840-11-5.

12: Delbin MA, Silva AS, Antunes E, Zanesco A. Interaction between serotonergic-and beta-adrenergic receptors signaling pathways in rat femoral artery. *Arq Bras Cardiol*. 2012 Jan;98(1):29-34.

13: Claudino MA, Delbin MA, Franco-Penteado CF, Priviero FB, De Nucci G, Antunes E, Zanesco A. Exercise training ameliorates the impairment of endothelial and nitric corpus cavernosum responses in diabetic rats. *Life Sci*. 2011 Jan 31;88(5-6):272-7. doi: 10.1016/j.lfs.2010.11.018.

14: Delbin MA, Antunes E, Zanesco A. Role of exercise training on pulmonary ischemia/reperfusion and inflammatory response. *Rev Bras Cir Cardiovasc*. 2009 Oct-Dec;24(4):552-61.

15: Delbin MA, Davel AP, Rossoni LV, Antunes E, Zanesco A. Beneficial effects of physical training on the cardio-inflammatory disorder induced by lung ischemia/reperfusion in rats. *Inflammation*. 2011 Oct;34(5):319-25. doi: 10.1007/s10753-010-9237-9.

16: Camargo EA, Delbin MA, Ferreira T, Landucci EC, Antunes E, Zanesco A. Influence of acute pancreatitis on the in vitro responsiveness of rat mesenteric and pulmonary arteries. *BMC Gastroenterol*. 2008 May 29;8:19. doi: 10.1186/1471-230X-8-19.

17: Mussi RK, Camargo EA, Ferreira T, De Moraes C, Delbin MA, Toro IF, Brancher S, Landucci EC, Zanesco A, Antunes E. Exercise training reduces pulmonary ischaemia-reperfusion-induced inflammatory responses. *Eur Respir J*. 2008 Mar;31(3):645-9.

18: Delbin MA, Moraes C, Camargo E, Mussi RK, Antunes E, de Nucci G, Zanesco A. Influence of physical preconditioning on the responsiveness of rat pulmonary artery after pulmonary ischemia/reperfusion. *Comp Biochem Physiol A Mol Integr Physiol*. 2007 Jul;147(3):793-8. Epub 2006 Sep 5.

CHAPTER BOOKS

1: DELBIN MA e Zanesco A. Disfunção endotelial e estresse oxidativo. In: *Doenças cardiometabólicas e Exercício Físico*. 1 ed. Rio de Janeiro: Revinter, 2013.

SEMINARS INVITED PRESENTATIONS

Invited Speaker, 2º Fórum Empresarial de Pinhal, 7 a 9 de Novembro 2007, Espírito Santo do Pinhal-SP, Brasil. Title: Saúde e Comportamento.

Invited Speaker, VI Simpósio de Pesquisa, Extensão e Ensino, 28 a 30 Outubro 2008, Espírito Santo do Pinhal-SP, Brasil. Title: Exercício Físico e Saúde.

Invited Speaker, VII Congresso Internacional de Educação Física e Motricidade Humana e XIII Simpósio Paulista de Educação Física, 26 a 29 de Maio 2011, Rio Claro-SP, Brasil. Title: Obesidade, doença cardio-metabólicas e exercício físico. **(DOC IX-03)**

Invited Speaker, Seminários de Biologia Funcional e Molecular do Programa de Pós-Graduação em Biologia Funcional e Molecular, Instituto de Biologia, UNICAMP, 26 de Outubro de 2011, Campinas-SP, Brasil. Title: The deleterious effects of advanced glycation end products formation on the vascular function were prevented by exercise training in diabetes mellitus.

Invited Speaker, Seminários de Biologia Funcional e Molecular do Programa de Pós-Graduação em Biologia Funcional e Molecular, Instituto de Biologia, UNICAMP, 15 de Agosto de 2012, Campinas-SP, Brasil. Title: Reatividade vascular em artérias coronária e femoral de ratos diabéticos treinados: papel dos produtos finais da glicação avançada.

Invited Speaker, VIII Congresso Internacional de Educação Física e Motricidade Humana e XIV Simpósio Paulista de Educação Física, 29 de Maio a 01 de Junho de 2013, Rio Claro-SP, Brasil. Title: Avanços na Pesquisa em Educação Física e Doenças Cardiometabólicas.

PUBLISHED ABSTRACT

DELBIN MA, Zanesco A. Efeitos do exercício dinâmico por dança na pressão arterial de sujeitos hipertensos. **Revista da Sociedade de Cardiologia do Estado de São Paulo**, v. 4, n. 2 (suplemento especial), p. 138, 2004.

DELBIN MA, de Moraes C, Kalaf R, Antunes E, Zanesco A. Reatividade vascular de artéria mesentérica de ratos após isquemia/reperfusão pulmonar: efeitos do treinamento físico. **Revista Brasileira de Atividade Física e Saúde**, v. 10, n. 1 (suplemento), p. 176, 2005.

DELBIN MA, de Moraes C, Camargo E, de Nucci G, Antunes E, Zanesco A. Efeitos do treinamento físico na reatividade vascular de ratos submetidos à isquemia/reperfusão pulmonar. **Motriz**, v. 13, n. 2 (suplemento 1), p. S79, 2007.

DELBIN MA, Camargo E, Davel APC, Rossoni LV, Antunes E, Zanesco A. Expressão de enzimas oxidantes e antioxidantes em artéria mesentérica de animais treinados e submetidos à isquemia/reperfusão pulmonar. **Revista da Sociedade de Cardiologia do Estado de São Paulo**, v. 19, n. 2 (suplemento especial), p. 108, 2009.

DELBIN MA, Davel APC, Bau FR, Priviero FBM, Rossoni LV, Antunes E, Zanesco A. Reduction in vascular oxidative stress and improvement of NO/cGMP pathway in trained rats after lung ischemia/reperfusion. **Revista Hipertensão**, v. 12 (suplemento), p. 8, 2009.

Valgas da Silva CP, DELBIN MA, Davel AP, La Guardia PG, Priviero FB, Zanesco A. Interaction between L-arginine supplementation and physical training on the cardiovascular biomarkers and antioxidant enzymes protein expression from rat skeletal muscle. **Revista Hipertensão**, v. 1 (suplemento), p. 209, 2012.

DELBIN MA, de Moraes C, Camargo E, Kalaf R, Antunes E, de Nucci G, Zanesco A. Effect of the physical training on the vascular responsiveness after pulmonary ischemia/reperfusion in rat. **Medicine & Science in Sports & Exercise**, v. 38, n. 5 (supplement), p. S3, 2006.

DELBIN MA, de Moraes C, Camargo E, Kalaf R, Antunes E, de Nucci G, Zanesco A. Effect of the physical training on the vascular responsiveness of rat mesenteric artery after pulmonary ischemia/reperfusion. **Nitric Oxide Biology and Chemistry**, v. 14, p. A52, 2006.

DELBIN MA, de Moraes C, Camargo E, Antunes E, de Nucci G, Zanesco A. Vascular responsiveness in rat pulmonary ischemia-reperfusion affected by physical training. **Comparative Biochemistry and Physiology, Part A**, v. 148 (supplement 1), p. S62-63, 2007.

Zanesco A, DELBIN MA, Davel APC, Bau FR, Priviero FBM, Rossoni LV, Antunes E. Effect of exercise training on endothelium-dependent relaxing response and cGMP concentration in pulmonary artery from rats submitted to lung ischemia/reperfusion. **BMC Pharmacology**, v. 9 (supplement 1), p. 77, 2009.

DELBIN MA, Trask AJ, Cismowski M, Lucchesi PA, Zanesco A. Aerobic exercise training improves endothelial dysfunction in type 2 diabetic mice by advanced glycation end product-independent pathway. **Free Radical Biology & Medicine**, v. 51 (supplement 1), p. S61, 2011.

Zanesco A, Silva CP, DELBIN MA, La Guardia PG, Davel APC, Priviero FBM. Mitochondrial biogenesis and redox state in gastrocnemius muscle from trained rats supplemented with L-arginine. **Free Radical Biology & Medicine**, v. 51 (supplement 1), p. S166, 2011.

Trask AJ, DELBIN MA, Katz PS, Zanesco A, Lucchesi P. Aerobic exercise training partially reverses inward hypertrophic coronary arteriole remodeling in type 2 diabetic db/db mice. **The FASEB Journal**, v. 26, n. 1 (supplement), p. 1138.21, 2012.

C de Moraes, MA DELBIN, EC de Freitas, AR Maia, AP Davel. Physical exercise and taurine supplementation restore endothelial dysfunction and antioxidant defense in obese rats. **The FASEB Journal**, v. 27, n. 1 (supplement), p. ib650, 2013.

A Zanesco, CV da Silva, MA DELBIN, PG La Guardia, AP Davel, FB Priviero. Interaction between L-arginine supplementation and physical training in the mitochondrial biomarkers and nitric oxide bioavailability in rat skeletal muscle. **The FASEB Journal**, v. 27, n. 1 (supplement), p. 920.6, 2013.