



UNIVERSITÀ DEGLI STUDI DI VERONA

DIPARTIMENTO DI SCIENZE NEUROLOGICHE E DEL MOVIMENTO

Consiglio di Dipartimento

Verbale della seduta del giorno 14 gennaio 2015

Oggi, nell'aula C della Lente Didattica presso il Policlinico GB Rossi in Piazzale Scuro 10, Verona, alle ore 13.30 sono convenuti i sotto indicati Signori, componenti il Consiglio del Dipartimento di Scienze Neurologiche e del Movimento:

PROFESSORI ORDINARI		Prof.ssa Zamparo	P	RICERCATORI	
Prof. Capelli	AG	Prof. Zanusso	P	Dott.ssa Pogliaghi	P
Prof. Cevese	AG			Dott. Salvati	P
Prof. Chelazzi	P	RICERCATORI		Dott. Talacchi	A
Prof. Marchini	P	Dott. Ardigò	AG	Dott. Tam	P
Prof. Meglio	P	Dott. Bertinato	P	Dott. Tamburin	P
Prof. Monaco	P	Dott. Bertini	P	Dott. Vattemi	AG
Prof. Sbarbati	P	Dott. Bongiovanni	P		
Prof. Schena	P	Dott. Busetto	P		
Prof. Smania	AG	Dott.ssa Calderan	AG		
Prof. Tassinari	P	Dott. Casati	P	RAPPRESENTANTI PTA	
Prof. Zancanaro	P	Dott.ssa Cecchini	P	Sig. Bernardi	P
		Dott.ssa Della Libera	P	Dott. Bortolan	A
PROFESSORI ASSOCIATI		Dott.ssa Favero	P	Sig.ra Grandis	P
Prof. Bonetti	P	Dott. Gajofatto	P	Dott.ssa Lorenzetto	P
Prof. Buffelli	P	Dott. Galiè	P	Dott.ssa Merigo	P
Prof.ssa Cesari	AG	Dott.ssa Galmonte	AG	Dott.ssa Nicolato	AG
Prof. Fabene	P	Dott.ssa Gandolfi	P	Sig.ra Scappini	P
Prof. Fabrizi	A	Dott.ssa Mariotti	P	Sig. Veronese	P
Prof.ssa Fiorio	P	Dott.ssa Mazzucco	AG		
Prof. Girelli	A	Dott.ssa Milanese	P		
Prof. Lanza	P	Dott.ssa Morbio	P	RAPPRESENTANTI STUDENTI e DOTTORANDI	
Prof.ssa Malatesta	P	Dott. Pedrotti	A	Dott. Santiago Manuel Lopez	A
Prof. Sala	P	Dott.ssa Pellegrini	AG		
Prof.ssa Savazzi	P				
Prof. Simonati	AG				
Prof. Tinazzi	P	SEGRETARIO AMM.VO Dott.ssa Calderara	P	DIRETTORE/PRESIDENTE Prof.ssa Marina Bentivoglio	P

IL SEGRETARIO

D. Calzavara

IL PRESIDENTE

maurizio



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Legenda:

P: presente

A: assente

AG: assente giustificato

Ordine del giorno:

1. Comunicazioni del Direttore
2. Provvedimenti Area di Scienze Motorie
3. Provvedimenti Area di Medicina
4. Borse di Studio e Assegni di Ricerca
5. Contratti, Convenzioni, Donazioni e Variazioni di bilancio
6. Regolamento FUR
7. Programmazione Personale Docente: Chiamate dall'estero
8. Eventuali e Varie

Presiede la Prof.ssa Marina Bentivoglio che riconosce valida la seduta e la dichiara aperta per trattare l'ordine del giorno.

Esercita le funzioni di Segretario la dott.ssa Manuela Calderara.

Le deliberazioni adottate vengono approvate e sottoscritte seduta stante.

Il verbale, sottoscritto dal Presidente e dal Segretario è conservato ed è consultabile presso la Direzione del Dipartimento.

- O M I S S I S -

7. Programmazione Personale Docente: Chiamate dall'estero

- O M I S S I S -

- Esamine le pubblicazioni e l'attività scientifica del candidato proposto – Dott. Juan Manuel Murias, di cui si allega il curriculum vitae, che viene posto agli atti;
- Valutato che il candidato ha profilo scientifico e competenze specifiche di assoluto rilievo, nonché dimostrata attitudine al lavoro collaborativo (già attestata da collaborazioni in corso nell'ambito di accordi internazionali di questo Ateneo);

IL SEGRETARIO

M. Calderara

IL PRESIDENTE

M. Bentivoglio



UNIVERSITÀ DEGLI STUDI DI VERONA
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Consiglio di Dipartimento

Verbale della seduta del giorno 14 gennaio 2015

- Tenuto conto del ruolo ricoperto all'estero e della significativa esperienza consolidata attraverso un percorso articolato in vari anni di formazione e di ricerca;
- Valutate le esigenze di didattica e di ricerca del Dipartimento, come da scheda che viene allegata e posta agli atti;

il Consiglio approva all'unanimità di proporre agli Organi Accademici la chiamata dall'estero del Dott. Juan Manuel Murias quale Professore Associato di II fascia per il SSD BIO/09.

- O M I S S I S -

Alle ore 15.30, non essendovi null'altro da discutere, il Presidente dichiara conclusa la seduta.

Letto, approvato e sottoscritto.

IL SEGRETARIO

IL PRESIDENTE

CURRICULUM VITAE

Juan Manuel Murias, Ph.D.

Assistant Professor
Faculty of Kinesiology
University of Calgary

ADDRESS

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Calgary, AB, Canada, T2N 1N4
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CITIZENSHIP

Canada and Argentina

1. ACADEMIC APPOINTMENTS

- 2013-Present Assistant Professor, Faculty of Kinesiology, University of Calgary, Calgary, Alberta, Canada
- 2013-Present Adjunct Research Professor, School of Kinesiology, Western University, London, Ontario, Canada

2. EDUCATION

- 2010-2013 Post-doctoral Fellow, Integrative Physiology of Exercise (vascular control)
The University of Western Ontario, London, Ontario
- 2006-2010 Doctor of Philosophy, Integrative Physiology of Exercise
The University of Western Ontario, London, Ontario

Dissertation Title: “Cardiovascular Adaptations Controlling Changes in $\text{VO}_{2\text{max}}$ and VO_2 Kinetics with Endurance Training in Older and Young Men and Women”

Supervisor: Donald H. Paterson, Ph.D., School of Kinesiology, Canadian Center for Activity and Aging, The University of Western Ontario, London, Ontario

- 2004-2006 Master of Science, Exercise Physiology
McGill University, Montreal, Quebec

Thesis Title: “The Effect of Banked-Curves on Running Mechanics: Plantar Foot Pressures”

Supervisor: David J. Pearsall, Department of Kinesiology and Physical Education, McGill University, Montreal, Quebec

1998-2003 Master of Science, Exercise Physiology
National University of General San Martín, Buenos Aires, Argentina

Thesis Title: “Metabolic and Functional Responses Playing Tennis on Different Surfaces”

Supervisor: Licenciado Fernando A. Laiño, National Institute of Physical Education N° 2, Buenos Aires, Argentina

1993-1996 Bachelor degree, Physical Education (Kinesiology)
National Institute of Physical Education N° 1, Buenos Aires, Argentina

3. RESEARCH

Experience (Most relevant)

2010-2013 Post-Doctoral Fellowship. The Dr. A.W. Taylor Exercise Biochemistry Laboratory. The University of Western Ontario. Director: Dr. Earl G. Noble. Employed in vivo and in vitro techniques in animal models to perform measurements at the molecular level to assess cardiovascular function from the heart to the vascular tree (i.e., vessels myography, vessel thickness, myocardial contractile function, heat shock proteins (Hsps), blood flow, endothelial nitric oxide synthase, oxidative and inflammatory status, etc.).

2006-2010 Ph.D. work. Cardiovascular Physiology Laboratory. The University of Western Ontario. Directors: Dr. Donald H. Paterson and John M. Kowalchuk. Learned and gained experience in 1) breath-by-breath gas analysis with mass spectrometer systems for studies of pulmonary gas exchange; 2) beat-by-beat measurement of blood velocity and flow to exercising limbs by Doppler ultrasound; 3) measurement of deoxygenation in the muscle with near-infrared spectroscopy systems (NIRS); 4) measurements of cardiac output using the C₂H₂ open circuit technique; 5) muscle biopsies for measurements of different oxidative enzymes activity as well as muscle morphology.

2009 Research Assistant. Cardiovascular Physiology Laboratory. The University of Western Ontario. Directors: Dr. Donald H. Paterson and John M. Kowalchuk. Same as previous.

2004-2006 Research Assistant. Respiratory Physiology Laboratory. Montreal General Hospital, McGill University, Faculty of Medicine, Department of Anesthesia. Director: Dr. Gerald S. Zavorsky. Learned and gained experience in 1) blood-gas sampling and analysis; 2) lung gas diffusion using the DLNO technique; 3) pulmonary gas-exchange analysis using metabolic cart systems.

2004-2005 M.Sc. Work. Biomechanics Laboratory. McGill University, Department of Kinesiology and Physical Education. Directors: Dr. David J. Pearsall and Rene Turcotte. Learned and gained experience in 1) pressure distribution measurements using piezo-resistive sensors; 2) measurement of muscle activation patterns using EMG.

Peer-Reviewed Research Publications (43)

(* Indicates students under my supervision)

1. Keir DA, Fontana FY*, Robertson TC, **Murias JM**, Paterson DH, Kowalchuk JM, Pogliaghi S. Exercise intensity thresholds: Identifying the boundaries of sustainable performance *Med Sci Sports Exerc* (Accepted)

Role: Data analysis and interpretation, manuscript writing, manuscript revisions. Percent contribution to the team effort: 20%. **Journal impact factor: 4.475**

2. Fontana F, Keir DA, **Murias JM**, Pogliaghi S. Determination of RCP in healthy adults: can NIRS help? *J Sci Med Sport* (In Press)

Role: Data analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 30%. **Journal impact factor: 2.899**

3. Keir DA, **Murias JM**, Paterson DH, Kowalchuk JM. Breath-by-breath VO₂p kinetics: effect of data processing on confidence in estimating model parameters. *Exp Physiol* 2014 Nov; 99(11):1511-22

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 40%. **Journal impact factor: 2.790**

4. Nederveen JP*, Paterson DH, **Murias JM**. Faster VO₂ kinetics after eccentric contractions is explained by better matching of O₂ delivery to O₂ utilization. *Eur J Appl Physiol* 2014 Oct; 114(10):2169-81

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 40 %. **Journal impact factor: 2.660**

5. Grey TG*, Spencer MD, Belfry GR, Kowalchuk JM, Paterson DH, **Murias JM**. Effects of age and long-term endurance training on VO₂ kinetics. *Med Sci Sports Exerc* (In Press)

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 40 %. **Journal impact factor: 4.475**

6. Jiang M, **Murias JM**, Chrones T, Sims S, Lui E, Noble EG. American ginseng acutely regulates contractile function of rat heart. *Front Pharmacol* 2014 March; 5(43):1-9

Role: Data analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 30 %. **Journal impact factor: N/A**

7. **Murias JM**, Spencer MD, Paterson DH. [†]The critical role of O₂ provision in the dynamic adjustment of oxidative phosphorylation. *Exerc Sport Sci Rev* 2014 Jan; 42(1):4-11

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60 %. **Journal impact factor:** 5.283. [†]ESSR Editor's Pick.

8. **Murias JM**, Keir DA, Spencer MD, Paterson DH. Sex-related differences in muscle deoxygenation during ramp incremental exercise. *Respir Physiol Neurobiol* 2013 December; 189(3) 530–6

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60 %. **Journal impact factor:** 2.051

9. Zerbini L, Spencer MD, Grey TM, **Murias JM**, Kowalchuk JM, Schena F, Paterson DH. Effect of acute hypoxia on muscle blood flow, VO_{2p}, and [HHb] kinetics during leg extension exercise in older men. *Eur J Appl Physiol* 2013 July; 113(7):1685-94

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 35 %. **Journal impact factor:** 2.660

10. **Murias JM**, Spencer MD, Keir DA, Paterson DH. Systemic and vastus lateralis muscle blood flow and O₂ extraction during ramp incremental cycle exercise. *Am J Physiol Regul Integr Comp Physiol* 2013 May; 304(9):R720–5

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60 %. **Journal impact factor:** 3.284

11. Spencer MD, Keir DA, Nederveen JP, **Murias JM**, Kowalchuk JM, Paterson DH. Prolonged moderate-intensity exercise VO₂ response following heavy-intensity priming exercise with short and longer-term recovery. *Appl Physiol Nutr Metab* 2013 May; 38(5):566-73

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 35 %. **Journal impact factor:** 2.009

12. **Murias JM**, Grise KN, Jiang M, Kowalchuk H, Melling C.W. J., Noble EG. Acute endurance exercise induces changes in vasorelaxation responses that are vessel-specific. *Am J Physiol Regul Integr Comp Physiol* 2013 April; 304(7):R574-80

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60 %. **Journal impact factor:** 3.529

13. Murias JM, Dey A, Campos OA, Estaki M, Hall KE, Melling C.W. J., Noble EG. High-intensity endurance training results in faster vessel-specific rate of vasorelaxation in diabetic rats. *Plos One* 2013 March; 8(3):e59678

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60 %. **Journal impact factor:** 3.730

14. Murias JM, Campos OA, Hall KE, McDonald MW, Melling CWJ, Noble, EG. Vessel-specific rate of vasorelaxation is slower in diabetic rats. *Diab Vasc Dis Res* 2013 March; 10(2):179-86

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60 %. **Journal impact factor:** 3.043

15. Spencer MD, Murias JM, Kowalchuk JM, Paterson DH. Effect of moderate-intensity work rate increment on phase II τVO_2 and functional gain and $\Delta[\text{HHb}]$. *Eur J Appl Physiol* 2013 March; 113(3):545-57

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 40 %. **Journal impact factor:** 2.660

16. Spencer MD, Gravelle BMR, Murias JM, Zerbini L, Pogliaghi L, Paterson DH. Duration of 'Phase I' VO_{2p} : a comparison of methods used in its estimation and the effects of varying moderate-intensity work rate. *Am J Physiol Regul Integr Comp Physiol* 2013 February; 304(3):R238-47

Role: Project design, data collection and analysis, manuscript revisions. Percent contribution to the team effort: 30 %. **Journal impact factor:** 3.284

17. Dogra S, Spencer MD, Murias JM, Paterson DH. Oxygen uptake kinetics in endurance trained and untrained post-menopausal women. *Appl Physiol Nutr Metab* 2013 February; 38(2):154-60

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 35 %. **Journal impact factor:** 2.009

18. Murias JM, Spencer MD, Pogliaghi S, Paterson DH. Non-invasive estimation of microvascular O_2 provision during the exercise on-transients in healthy young males. *Am J Physiol Regul Integr Comp Physiol* 2012 October; 303(8):R815-23

Role: Project design, data collection analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60 %. **Journal impact factor:** 3.284

19. Gravelle BMR, Murias JM, Spencer MD, Paterson DH, Kowalchuk JM. Adjustments of O_2 uptake and muscle deoxygenation during ramp incremental exercise and constant-load

moderate-intensity exercise in young and older adults. *J Appl Physiol* 2012 September; 113(9):1466-75

Role: Project design, data collection and analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 35 %. **Journal impact factor: 3.484**

20. Spencer MD, **Murias JM**, Paterson DH. Characterizing the profile of muscle deoxygenation during ramp incremental exercise in young men. *Eur J Appl Physiol* 2012 September; 112(9):3349-60

Role: Project design, data collection and analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 45 %. **Journal impact factor: 2.660**

21. Belfry GR, Paterson DH, **Murias JM**, Thomas SG. The effects of short recovery duration on VO₂ and muscle deoxygenation during intermittent exercise. *Eur J Appl Physiol* 2012 May; 112(5):1907-15

Role: Data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 25 %. **Journal impact factor: 2.660**

22. Spencer MD, **Murias JM**, Grey TM, Paterson DH. Regulation of VO₂ kinetics by O₂ delivery: insights from acute hypoxia and heavy-intensity priming exercise in young men. *J Appl Physiol* 2012 March; 112(6):1023-32

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 35 %. **Journal impact factor: 3.484**

23. Cleland SM, **Murias JM**, Kowalchuk JM, Paterson DH. Effects of prior heavy-intensity exercise on oxygen uptake and muscle deoxygenation kinetics of a subsequent cycling and knee-extension heavy-intensity exercise. *Appl Physiol Nutr Metab* 2012 February; 37:138-48

Role: Data analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 35 %. **Journal impact factor: 2.009**

24. **Murias JM**, Spencer MD, DeLorey DS, Gurd BJ, Kowalchuk JM, Paterson DH. Speeding of VO₂ kinetics during moderate-intensity exercise subsequent to heavy-intensity exercise is associated with improved local O₂ distribution. *J Appl Physiol* 2011 November; 111(5):1410-5

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 70 %. **Journal impact factor: 3.484**

25. **Murias JM**, Kowalchuk JM, Ritchie D, Hepple RT, Doherty TJ, Paterson DH. Adaptations in capillarization and citrate synthase activity in response to endurance training in older and young men. *J Gerontol A Biol Sci Med Sci* 2011 September; 66(9):957-64

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 75 %. **Journal impact factor:** 4.314

26. **Murias JM**, Spencer MD, Kowalchuk JM, Paterson DH. Muscle deoxygenation to VO_2 relationship differs in young subjects with varying τVO_2 . *Eur J Appl Physiol* 2011 September; 111(12):3107-3118

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 75 %. **Journal impact factor:** 2.660

27. Spencer MD, **Murias JM**, Kowalchuk JM, Paterson DH. Pulmonary O_2 uptake and muscle deoxygenation kinetics are slowed in the upper compared with lower region of the moderate-intensity exercise domain in older men. *Eur J Appl Physiol* 2011 September; 111(9):2139-2148

Role: Project design, data collection and analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 45 %. **Journal impact factor:** 2.660

28. **Murias JM**, Spencer MD, Kowalchuk JM, Paterson DH. Influence of Phase I duration on Phase II VO_2 kinetics parameter estimates in older and young adults. *Am. J Physiol Regul Integr Comp Physiol* 2011 July; 301(1):R218-24

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 75 %. **Journal impact factor:** 3.336

29. Spencer MD, **Murias JM**, Lamb HP, Kowalchuk JM, Paterson DH. Are the parameters of VO_2 , heart rate and muscle deoxygenation kinetics affected by serial moderate-intensity exercise transitions in a single day? *Eur J Appl Physiol* 2011 April; 111(4):591-600

Role: Project design, data collection and analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 40 %. **Journal impact factor:** 2.660

30. **Murias JM**, Kowalchuk JM, Paterson DH. Speeding of VO_2 kinetics in response to endurance-training in older and young women. *Eur J Appl Physiol* 2011 February; 111(2):235-43

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 75 %. **Journal impact factor:** 2.660

31. **Murias JM**, Kowalchuk JM, Paterson DH. Mechanisms for increases in $\text{VO}_{2\text{max}}$ with endurance training in older and young women. *Med Sci Sports Exerc* 2010 October; 42(10):1891-8

Role: Project design, data collection and analysis, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 75%. **Journal impact factor: 4.475**

32. Murias JM, Kowalchuk JM, Paterson DH. Speeding of VO₂ kinetics with endurance training in old and young men is associated with improved matching of local O₂ delivery to muscle O₂ utilization. *J Appl Physiol* 2010 April; 108(4):913-22

Role: Project design, data collection analysis and interpretation, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 75%. **Journal impact factor: 3.484**

33. Murias JM, Kowalchuk JM, Paterson DH. Time-course and mechanisms of adaptations in cardiorespiratory fitness with endurance training in older and young men. *J Appl Physiol* 2010 March; 108(3):621-7

Role: Project design, data collection analysis and interpretation, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 75%. **Journal impact factor: 3.484**

34. Zavorsky GS, Cao J., Murias JM. Reference values of pulmonary diffusing capacity for nitric oxide in an adult population. *Nitric Oxide* 2008 February; 18(1):70-9

Role: Data collection and interpretation, tables and graphs design for the manuscript, manuscript revisions. Percent contribution to the team effort: 40%. **Journal impact factor: 3.265**

35. Zavorsky GS, Murias JM, Kim do J, Gow J, Christou NV. Poor compensatory hyperventilation in morbidly obese women at peak exercise. *Respir Physiol Neurobiol* 2007 November; 159(2):187-95

Role: Data collection and interpretation, statistical analysis, tables and graphs design for the manuscript, manuscript revisions. Percent contribution to the team effort: 25%. **Journal impact factor: 2.051**

36. Zavorsky GS, Murias JM, Gow J, Kim DJ, Poulin-Harnois C, Kubow S, Lands LC. Laboratory 20-km cycle time trial reproducibility. *Int J Sports Med* 2007 September; 28(9):743-8

Role: Data collection and interpretation, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 40%. **Journal impact factor: 2.268**

37. Murias JM, Zavorsky GS. Short-term variability of nitric oxide diffusing capacity and its components. *Respir Physiol Neurobiol* 2007 August; 157(2-3):316-25

Role: Data collection, analysis and interpretation, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60%. **Journal impact factor: 2.051**

38. Zavorsky GS, Cao J., Mayo NE, Gavia R, **Murias JM**. Arterial versus capillary blood gases: A meta-analysis. *Respir Physiol Neurobiol* 2007 March; 155(3):268-79

Role: Data collection and interpretation, tables and graphs design for the manuscript, manuscript revisions. Percent contribution to the team effort: 30%. **Journal impact factor: 2.051**

39. Zavorsky GS, **Murias JM**, Kim DJ, Gow J, Sylvestre JL, Christou NV. Waist-to-hip ratio is associated with pulmonary gas exchange in the morbidly obese. *CHEST* 2007 February; 131(2):362-7

Role: Data collection and interpretation, statistical analysis, tables and graphs design for the manuscript, manuscript revisions. Percent contribution to the team effort: 35%. **Journal impact factor: 5.854**

40. **Murias JM**, Lanatta D, Arcuri CR, Laiño FA. Metabolic and functional responses playing tennis on different surfaces. *J Strength Cond Res* 2007 February; 21(1):112-7

Role: Data collection and interpretation, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 60%. **Journal impact factor: 1.795**

41. Zavorsky GS, Gow J, **Murias JM**. Potassium kinetics and its relationship with ventilation during repeated bouts of exercise in women. *Eur J Appl Physiol* 2007 January; 99(2):173-81

Role: Data collection and interpretation, statistical analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 40%. **Journal impact factor: 2.660**

42. Zavorsky GS, Saul L, **Murias JM**, Ruiz P. Pulmonary gas exchange does not worsen during repeat exercise in women. *Respir Physiol Neurobiol* 2006 October 27; 153(3):226-36

Role: Data collection, blood gas analysis, manuscript revisions. Percent contribution to the team effort: 20%. **Journal impact factor: 2.051**

43. Zavorsky GS, **Murias JM**. A small amount of inhaled nitric oxide does not increase lung diffusing capacity. *Eur Respir J* 2006 June; 27(6):1251-7

Role: Data collection and analysis, statistical assistance, manuscript revisions. Percent contribution to the team effort: 50%. **Journal impact factor: 6.355**

Letters to the Editor / Commentaries (1)

1. **Murias JM**, Keir DA, Spencer MD, Paterson DH. Sex-related differences in muscle deoxygenation during ramp incremental exercise: Response to Peltonen et al. *Respir Physiol Neurobiol* 2014 May; 195:61-2

Manuscripts Under Review (5)

(* Indicates students under my supervision)

1. **Murias JM**, Paterson DH. Slower VO₂ kinetics in older individuals: Is it inevitable? *Med Sci Sports Exerc* (MSSE-S-14-01652-2)

Role: Project design, data and statistical analysis, manuscript writing, manuscript revisions.
Percent contribution to the team effort: 70%. **Journal impact factor: 4.475**

2. McLay KM*, Fontana FY*, Paterson DH, Pogliaghi S, **Murias JM**. Vascular responsiveness measured by flow-mediated dilation and near-infrared spectroscopy: Comparison of methods. *J Appl Physiol* (JAPPL-01059-2014)

Role: Project design, data analysis and interpretation, manuscript crafting and revisions. Percent contribution to the team effort: 40%. **Journal impact factor: 3.484**

3. Murray JD, McCrudden MC, **Murias JM**, Belfry GR. The effects of differing 6 min pacing strategies on use of energy above CP, mean power output, and VO₂ and HHb kinetics. *J Strength Cond Res* (Submitted)

Role: Data analysis, manuscript writing, manuscript revisions. Percent contribution to the team effort: 30%. **Journal impact factor: 1.795**

4. McLay KM*, **Murias JM**, Nederveen JP, Paterson DH. Reliability of flow-mediated dilation of the popliteal artery in young healthy men. *Vasc Med* (Submission # VMJ-14-1753)

Role: Project design, data analysis, statistical analysis, manuscript revisions. Percent contribution to the team effort: 35%. **Journal impact factor: 3.730**

5. Pogliaghi S, De Roia G, **Murias JM**, Capelli C. Endurance exercise training and heavy-intensity priming exercise: effect on muscle oxidative metabolism in older adults. *Eur J Appl Physiol* (Submission # EJAP-D-13-01008R)

Role: Data analysis and interpretation, manuscript writing, manuscript revisions. Percent contribution to the team effort: 20 %. **Journal impact factor: 2.660**

Contributions to a Collective Work and Book Chapters (2)

1. **Murias JM**. Tennis: Demandas fisiológicas y funcionales del deporte. In: Bases fisiológicas del ejercicio. Edited by NE Bazán. Paidotribo ed. Barcelona, Spain, September 2014, Chapter 8, p 813-22

2. Paterson DH and **Murias JM**. Physical functioning and mental health in older adults. In: Physical exercise and mental health: interconnections, theory and application. Edited by A Clow and S Edmunds. Human Kinetics, Illinois, US, 2014, Chapter 7, p 119-140

National/International Conference Presentations (44)

(* Indicates students under my supervision)

1. **Murias JM**, Jiang M, Li G, Dzialoszynski T, Noble EG. Ginseng supplementation restores vascular responsiveness in type I diabetic rats. *Appl Physiol Nutr Metab* (Accepted)
2. McLay KM*, Fontana F, Pogliaghi F, Paterson DH, **Murias JM**. Can NIRS derived measures of oxygen saturation differentiate vascular responsiveness in young and older adults? *Appl Physiol Nutr Metab* (Accepted)
3. Murray JD, McCrudden MC, **Murias JM**, Belfry GR. The effect of a fast start versus a constant power pacing strategy on performance and the utilization of energy above critical power in a 6 min performance. *Appl Physiol Nutr Metab* (Accepted)
4. Keir DA, **Murias JM**, Paterson DH, Kowalchuk JM (2013). Breath-by-breath pulmonary O₂ uptake data processing: improving confidence in model parameters. *Appl Physiol Nutr Metab*; 38(10) p 1046
5. McLay KM*, **Murias JM**, Nederveen JP, Paterson DH (2013). Analysis of flow-mediated dilation in the popliteal artery using manual detection compared with edge-tracking software. *Appl Physiol Nutr Metab*; 38(10) p 1061
6. **Murias JM**, Dey A, Campos OA, Estaki M, Hall KE, Melling CWJ, Noble EG (2013). Vessel-specific vasorelaxation, e-NOS protein content and lumen-to-wall ratio in rats. *Med Sci Sports Exerc*; Volume 45(5) Supplement May 2013 p S533
7. Keir DA, **Murias JM**, Spencer MD, Paterson DH (2013). Systemic versus peripheral adjustments of blood flow and oxygen extraction during ramp incremental exercise. *Med Sci Sports Exerc*; Volume 45(5) Supplement May 2013 p S431
8. Grey TM*, Spencer MD, **Murias JM**, Belfry GR, Paterson DH (2013). The effect of age and training status on VO₂ kinetics. *Med Sci Sports Exerc*; Volume 45(5) Supplement May 2013 p S492
9. McLay KM*, **Murias JM**, Nederveen JP, Paterson DH (2013). Day-to-day reliability of flow-mediated dilation measures in the popliteal artery. *Med Sci Sports Exerc*; Volume 45(5) Supplement May 2013 p S27
10. Nederveen JP*, **Murias JM**, Paterson DH, Kowalchuk JM. Effect of eccentric muscle damage on oxygen kinetics and muscle de-oxygenation during moderate intensity cycling exercise. *Med Sci Sports Exerc*; Volume 45(5) Supplement May 2013 p S491
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14. **Murias JM**, Campos OA, Hall KE, McDonald MW, Grise KN, Melling CWJ, Noble EG (2012). High-intensity endurance training but not vitamin C changes vascular responsiveness in diabetic rats. *Med Sci Sports Exerc*; Volume 44(5) Supplement May 2012 p S876
15. Spencer MD, **Murias JM**, Kowalchuk JM, Paterson DH (2012). Is dynamic linearity a consistent feature of VO₂ kinetics in the moderate-intensity domain? *Med Sci Sports Exerc*; Volume 44(5) Supplement May 2012 p S95
16. Belfry GR, Park SJ, Karelson WJ, **Murias JM**, Spencer MD, Kowalchuk JM, Paterson DH (2012). Effects of recovery duration from prior heavy exercise on VO₂ kinetics and performance. *Med Sci Sports Exerc*; Volume 44(5) Supplement May 2012 p S300
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18. Spencer MD, **Murias JM**, Grey, TM, Paterson DH (2012). Aging does not affect the profile of muscle deoxygenation during ramp incremental exercise in chronically endurance trained men. *J Physiol Proc Physiol Soc* 26; C 14 & PC 14
19. Zerbini L, Spencer MD, **Murias JM**, Kowalchuk JM, Paterson DH, Schena F (2011). Influence of hyperoxia on pulmonary O₂ uptake and muscle deoxygenation kinetics during the transition from lower to upper region of intensity exercise. III Congresso Nazionale della Società Italiana delle Scienze Motorie e Sportive
20. **Murias JM**, Spencer MD, Gravelle BMR, Grey TM, Paterson DH (2011). $\Delta\text{HHb}/\text{VO}_{2\text{p}}$ ratio versus Qcap: comparing two different methods for estimating the matching of blood flow to oxygen utilization. *Appl Physiol Nutr Metab*; 36 (Suppl 2), S340
21. **Murias JM**, Campos OA, Hall KE, McDonald MW, Grise KN, Melling CWJ, Noble EG (2011). Short-term high intensity continuous endurance training results in a faster rate of vasorelaxation in diabetic rats. *Appl Physiol Nutr Metab*; 36 (Suppl 2), S340
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23. **Murias JM**, Spencer MD, Gravelle BMR, Kowalchuk JM, Paterson DH (2011). Influence of Phase I duration on Phase II VO₂ kinetics in older and young adults. *Med Sci Sports Exerc*; Volume 43(5) Supplement May 2011 p S384
24. Spencer MD, **Murias JM**, Gravelle BMR, McLay KM, Kowalchuk JM, Paterson DH (2011). Does improved local O₂ distribution explain faster VO₂ kinetics during smaller compared

to larger moderate-intensity transitions? *Med Sci Sports Exerc*; Volume 43(5) Supplement May 2011 p S387

25. Gravelle BMR, **Murias JM**, Spencer MD, Paterson DH, Kowalchuk JM (2011). The adjustments of $\Delta[\text{HHb}]$ and $\text{VO}_{2\text{p}}$ during ramp incremental exercise in young and older adults. *Med Sci Sports Exerc*; Volume 43(5) Supplement May 2011 p S648
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27. Gravelle, BMR, Spencer MD, **Murias JM**, Paterson DH, Kowalchuk JM (2010). O_2 uptake-power output relationship and exercise efficiency in young and older adult men during constant-load and ramp incremental cycling exercise. *Appl Physiol Nutr Metab*; 35 (Suppl 1), S35
28. **Murias JM**, Spencer MD, Kowalchuk JM, Ritchie D, Hepple RT, Doherty, TJ, Paterson DH (2010). Central and peripheral adaptations to endurance training explain increases in $\text{VO}_{2\text{max}}$ in older and young men. *J Nutr Health Aging*
29. Spencer MD, **Murias JM**, Kowalchuk JM, Paterson DH (2010). Similar reductions in oxygen deficit in response to endurance training in older and young men. *J Nutr Health Aging*
30. **Murias JM**, Spencer MD, Kowalchuk JM, Paterson DH (2010). Improved matching of local O_2 delivery to muscle VO_2 is related to faster VO_2 kinetics. *Med Sci Sports Exerc*; Volume 42(5) Supplement May 2010 p 243-244
31. Spencer MD, **Murias JM**, Kowalchuk JM, Paterson DH (2010). Prior heavy exercise speeds VO_2 kinetics by improving local O_2 delivery-to-utilization matching. *Med Sci Sports Exerc*; Volume 42(5) Supplement May 2010 p S52-53
32. Gravelle B, **Murias JM**, Spencer MD, Paterson DH, Kowalchuk JM (2010). Relationship between deoxy-hemoglobin and VO_2 during ramp incremental and steady-state constant-load exercise. *Med Sci Sports Exerc*; Volume 42(5) Supplement May 2010 p S244
33. **Murias JM**, Spencer MD, Kowalchuk JM, Paterson DH (2009). Time-course and mechanisms of adaptations in cardiorespiratory fitness with endurance training in older men and women. *Appl Physiol Nutr Metab*; 34 (Suppl 1), S66
34. Spencer MD, Lamb HP, **Murias JM**, Kowalchuk JM, Paterson DH (2009). Are the parameters of VO_2 kinetics affected by serial moderate-intensity exercise transitions performed in a single day? *Appl Physiol Nutr Metab*; 34 (Suppl 1), S87
35. Spencer MD, **Murias JM**, Kowalchuk JM, Paterson DH (2009). Microvascular O_2 extraction differs in young men and women during ramp incremental cycling exercise. *Appl Physiol Nutr Metab*; 34 (Suppl 1), S87

36. **Murias JM**, Kowalchuk JM, Paterson DH (2009). Changes in VO_2 and muscle deoxygenation kinetics with training in old and young adults. *Med Sci Sports Exerc*; Volume 41(5) Supplement May 2009 p S379
37. **Murias JM**, Spencer MD, Kowalchuk JM, Paterson DH (2008). Time-course of adaptations in cardiorespiratory fitness with exercise training in older and younger subjects. *Appl Physiol Nutr Metab*; 33 (Suppl 1), S69
38. Spencer MD, **Murias JM**, Kowalchuk JM, Paterson DH (2008). Continuous cycle training induces sex-specific adaptations to $\text{VO}_{2\text{peak}}$ and lactate threshold in older adults. *Appl Physiol Nutr Metab*; 33 (Suppl 1), S94
39. Zavorsky GS, **Murias JM**, Kim DJ, Gow J, Sylvestre JL, Christiou NV (2006). Differences in pulmonary gas exchange between morbidly obese women and fit women. *Appl Physiol Nutr Metab*; 31 (Suppl), S90
40. Zavorsky GS, **Murias JM**, Kim DJ, Gow J, Sylvestre JL, Christiou NV (2006). Differences in the cardiovascular, metabolic, and ventilatory index between morbidly obese women and fit women. *Appl Physiol Nutr Metab*; 31 (Suppl), S90
41. Pearsall DJ, DeSerres SJ, Gow J, **Murias JM**, DeGare L, Loh JJ (2006). The effect of banked curves on running mechanics. 14th biennial conference for the Canadian Society for Biomechanics. University of Waterloo, August 16-19
42. Saul L, Ruiz P, Montgomery DL, **Murias JM**, Zavorsky GS (2005). The effect of repeat exercise on exercise-induced hypoxemia. *Can J Appl Physiol*; 30 (Suppl), S70-71
43. Zavorsky GS, **Murias JM**, Gabbay R, Decker A (2005). Arterial versus capillary blood gases: A meta-analysis. *Can J Appl Physiol*; 30 (Suppl), S87-88
44. Montgomery D, Blyth A, **Murias JM**, Azuelos Y (2005). Do oral mouthguards affect ventilation? *Med Sci Sports Exerc*; Volume 37(5) Supplement May 2005 p S229

Presentations as a Guest Speaker (Conference / Symposium Presentations) (5)

1. VO_2 and deoxy-hemoglobin kinetics: what can they tell us about O_2 provision to the muscles? (Keynote speaker). **Exercise Physiology of Western Canada (EPOWC) Meeting**. Kelowna, British Columbia, July 17-18, 2014
2. Adaptaciones cardiovasculares al entrenamiento en el adulto mayor [Cardiovascular adaptations to exercise training in older adults]. **Conferencia Internacional en Actividad Física y Desarrollo Humano “Investigación y Práctica Profesional” [International Conference in Physical Activity and Human Development]**. Buenos Aires, Argentina, November 5, 2013
3. Dynamic adjustment of vascular responsiveness throughout the vascular tree and the effects of different exercise interventions (“The effects of exercise training on vascular responses” symposium). **CSEP annual meeting 2013**. Toronto, Ontario, October 16-19 2013

4. Cardiovascular adaptations controlling changes in VO_{2max} with endurance training in older men and women (“The Cardiovascular System Across the Lifespan” symposium). **CSEP annual meeting 2010**. Toronto, Ontario, November 3-6 2010

5. Cardiovascular responses to endurance training: age and sex-specific adaptations. **Research to Action Conference 2009**. London, Ontario, July 17 & 18, 2009. Canadian Centre for Activity and Aging, The University of Western Ontario

Conference symposia/sessions chaired

1. Free communication: Exercise and function. **Exercise Physiology of Western Canada (EPOWC) Meeting**. Kelowna, British Columbia, July 17-18, 2014

4. FACULTY AND UNIVERSITY COMMITTEES

2014	Master of Kinesiology Steering Committee
2014	Master of Kinesiology Admissions Committee
2014	Faculty of Kinesiology Academic Appeals Committee
2014	Kinesiology Representative on Medicine Faculty Council

5. GRANTS AND AWARDS

Grants

2014	Faculty of Kinesiology, University of Calgary Start-Up Fund. Principal Investigator (CAD 75,000)
2013	Canadian Institutes of Health Research (CIHR, Institute of Aging). Planning Grant: Relevance of vascular adaptations to exercise training in improving quality of life in aging populations: transitioning from the laboratory to the community. Co PIs: Juan M. Murias and Donald H. Paterson. Co-investigator: Earl G. Noble (CAD 19,443)
2010-2012	Ontario Ministry of Research and Innovation. Post-Doctoral Fellowship Award (CAD 50,000)
2007-2010	Canadian Institutes of Health Research (CIHR). Frederick Banting and Charles Best Canada Graduate Scholarships - Doctoral Award (CAD 105,000)
2006-2010	The University of Western Ontario. Western Graduate Research Scholarship (CAD 32,000)

- 2007 Canadian Institutes of Health Research CIHR Institute of Aging Doctoral Research Award (held as an Honorary Award)
- 2007 Ministry of Training Colleges and Universities (OSAP). Ontario Graduate Scholarship (awarded and declined)

Grants (Under Review)

- 2014 Natural Sciences and Engineering Research Council of Canada. Discovery Program: Regulation of vascular responsiveness to changes in metabolic demand. PI: Juan M. Murias. Funds requested: \$373,400 (over five years)
- 2014 Canada Foundation for Innovation. John R. Evans Leaders Fund: New methods to investigate neuromuscular and cardiovascular responses to exercise in cancer survivors and elderly. PI: Guillaume Millet. Co-applicant: Juan M. Murias. Funds requested: \$331,990. Portion of funding assigned: \$165,000

Travel Grants and Other Awards and Distinctions

- 2014 University of Verona. Visiting scholar in support of the development and consolidation of teaching and research (€ 3600)
- 2011 University of Verona. Junior visiting scholar. Cooperint Grant 2010 in support of the development and consolidation of international collaborations for teaching and research (€ 3000)
- 2010 American College of Sports Medicine Annual Meeting, Non-invasive Neuromuscular Interest Group Award Winner
- 2010 The University of Western Ontario. Faculty of Health Sciences Graduate Student Conference Travel Award (CAD 500)
- 2010 The University of Western Ontario. School of Kinesiology. Kinesiology Travel Award (CAD 700)
- 2010 The University of Western Ontario. Graduate Thesis Research Award (CAD 562)
- 2009 The University of Western Ontario. Graduate Thesis Research Award (CAD 370)
- 2009 The University of Western Ontario. Faculty of Health Sciences Graduate Student Conference Travel Award (CAD 500)
- 2009 The University of Western Ontario. School of Kinesiology. Kinesiology Travel Award (CAD 448)

2008	The University of Western Ontario. Graduate Thesis Research Award (CAD 970)
2008	The University of Western Ontario. Faculty of Health Sciences Graduate Student Conference Travel Award (CAD 500)
2008	The University of Western Ontario. School of Kinesiology. Kinesiology Travel Award (CAD 448)
1997	National Institute of Sports (Argentina). Highest GPA recognition
1996	National Institute of Physical Education N° 1 (Argentina). National Flag Bearer (Top 3 GPA Students distinction)

6. TEACHING AND SUPERVISORY EXPERIENCE

Teaching

2014 – Present	Course Instructor KNES 203 – Activity, health, fitness and performance. University of Calgary (Fall)
2014 – Present	Course instructor KNES 615 – Seminar in applied exercise physiology I (Fall). University of Calgary
2014 – Present	Course instructor KNES 617 – Seminar in applied exercise physiology II (Winter). University of Calgary
2011	Lecturer (4 lectures). VO ₂ kinetics: theoretical and practical considerations. Department of Neurological and Movement Sciences, University of Verona
2010	Lecturer (2 lectures). Kinesiology 4474A – Physical Activity and Exercise Guidelines for Older Adults. The University of Western Ontario
2009	Lecturer (2 lectures). Kinesiology 4474A – Physical Activity and Exercise Guidelines for Older Adults. The University of Western Ontario
2009	Teaching Assistant. Kinesiology 4474A – Physical Activity and Exercise Guidelines for Older Adults. The University of Western Ontario
2009	Lecturer (1 lecture). Kinesiology 2230B – Introductory Exercise Physiology. The University of Western Ontario
2009	Supervision of laboratory work. Senior undergraduate thesis project (Heather P. Lamb: “Are VO ₂ kinetics affected by serial moderate intensity exercise bouts in a single day?”)

2008	Supervision of laboratory work. Senior undergraduate thesis project (Bopha Chrea: “Adaptations in Cardiac Output to Endurance Training in Older Women”)
2007	Teaching Assistant. Kinesiology 2032B – Research Design in Human Movement Science. The University of Western Ontario
2006	Teaching Assistant. Kinesiology 2230A – Introductory Exercise Physiology. The University of Western Ontario
2005	Teaching Assistant. Kinesiology EDKP 350 – Practicum II. McGill University
2004	Teaching Assistant. Kinesiology EDKP 350 – Practicum II. McGill University
2002-2003	Sessional Course Instructor. Training Theory. National Institute of Sports (Argentina)
2001-2002	Course Instructor for the Certified Personal Trainer Certification (Post-Secondary level of education) (Argentina)
2001-2002	Teaching Assistant. Exercise Physiology Laboratory. National Institute of Physical Education N° 2 (Argentina)
2000	Teaching Assistant. Introduction to Statistical Analysis. National Institute of Physical Education N° 1 (Argentina)
1996-1997	National Tennis Coach. National Institute of Sports, Buenos Aires, Argentina

Students Supervision and mentorship

2015-Present	Co-supervision of Postdoctoral Fellow Vagner Raso (joint supervisor: Dr. Guillaume Millet). Faculty of Kinesiology, University of Calgary, Calgary, Alberta, Canada. Project title: To be determined.
2014-Present	Supervision of M.Sc. candidate Felipe Mattioni. Faculty of Kinesiology, University of Calgary, Calgary, Alberta, Canada. Project title: Effects of lower limb local vasodilation on O ₂ transport and distribution during ramp incremental and square wave exercise tests.
2012-Present	Co-supervision and committee member of Ph.D. student Kaitlin M. McLay (primary supervisor: Dr. Donald H. Paterson, Western University, London, Ontario, Canada). Project title: Effect of blood flow restricted (hypoxia) training on vascular adaptations in older and young adults
2012-Present	Co-supervision of Ph.D. student Federico Fontana (primary supervisor: Dr. Silvia Pogliaghi, Department of Neurological and Movement Sciences,

	University of Verona, Verona, Veneto, Italy). Project title: Project under development
2012-2014	Co-supervision and committee member of M.Sc. candidate Tyler M. Grey (primary supervisor: Dr. Donald H. Paterson, Western University, London, Ontario, Canada). Project title: The Effects of Age and Long-Term Endurance Training on VO ₂ Kinetics
2010-2012	Co-supervision of M.Sc. Kaitlin M. McLay (primary supervisor: Dr. Donald H. Paterson, Western University, London, Ontario, Canada). Thesis title: Reliability of flow-mediated dilation measures in the popliteal artery and implications for use in clinical and research practices
2009	Supervision of laboratory work. Senior undergraduate thesis project (Heather P. Lamb: “Are VO ₂ kinetics affected by serial moderate intensity exercise bouts in a single day?”)
2008	Supervision of laboratory work. Senior undergraduate thesis project (Bopha Chrea: “Adaptations in Cardiac Output to Endurance Training in Older Women”)

7. PROFESIONAL SERVICE & MEMBERSHIPS

Journals Peer Reviewer

2010-Present	Reviewer Medicine and Science in Sports and Exercise (5)
2011-Present	Reviewer Respiratory Physiology and Neurobiology (1)
2011-Present	Reviewer Journal of Applied Physiology (4)
2011-Present	Reviewer Applied Physiology, Nutrition, and Metabolism (9)
2012-Present	Reviewer The American Journal of Physiology - Regulatory, Integrative and Comparative Physiology (1)
2012-Present	Reviewer European Journal of Sport Science (2)
2012-Present	Reviewer The International SportMed Journal (1)
2013-Present	Reviewer Physiological Reports (3)
2014-Present	Reviewer Experimental Physiology (1)
2014-Present	Reviewer Journal of Motor Behavior (1)
2014-Present	Reviewer European Journal of Applied Physiology (3)

External Examiner

- 2012 External examiner: Ph.D. program, Department of Neurological and Movement Sciences, University of Verona, Verona, Italy:
- Livio Zerbini: “Effects of acute hypoxia on the VO₂ kinetics of older adults during exercise”
 - Cecilia Bellotti: “Functional evaluation for a ‘tailored’ exercise prescription in older adults”
 - Giorgio Da Lozzo: “Elaboration and application of functional evaluation techniques for rugby union”
 - Martina Alberti: “Physiological and physical analysis in anorexia nervosa (AN) in-patients”
 - Giuseppe Coratella: “Muscle damage, repeated bout effect and training included changes by different eccentric training modalities”
 - Paolo Gaffurini: “Metabolic and electromechanical investigation during individual stimulated muscle exertion and volitional systemic adapted physical activity”
 - Fabio Serpiello: “Intermittent-sprint exercise: Performance and muscle adaptations in health and chronic disease”

Advisory committees and candidacy exams

- 2012-Present Advisory committee Ph.D. candidate Kaitlin M. McLay (Western University, London, Ontario, Canada). Project title: Effect of blood flow restricted (hypoxia) training on vascular adaptations in older and young adults
- 2014 Candidacy exam examiner Ph.D. student Christopher Newell (Faculty of Kinesiology, University of Calgary). Proposal title: Mitochondria in Orphan Disease States: Role and Therapeutic Potential
- 2012-2014 Advisory committee M.Sc. candidate Tyler M. Grey (Western University, London, Ontario, Canada). Project title: The Effects of Age and Long-Term Endurance Training on VO₂ Kinetics

External Evaluations

- 2013 External evaluator: Research quality and progress (three projects). University of Flores, Buenos Aires, Argentina.

Professional Affiliations

2008-Present Member Canadian Society for Exercise Physiology

Other Activities

2011-2013 Judge at the London District Science and Technology Fair (Intermediate & Senior: Life Science category)

8. LANGUAGE SKILLS

English (fluent), French (advanced), Spanish (first language)

9. PERSONAL INTERESTS

- I played national level tennis and I continue playing the game as an important part of my life.
- I am passionate about exercise training and fitness.
- I enjoy traveling and experiencing different cultures.

10. REFERENCES

Dr. Donald H. Paterson
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E-mail: enoble@uwo.ca

Dr. J. Kevin Shoemaker
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E-mail: kshoemak@uwo.ca

Nota illustrativa delle necessità didattiche e di ricerca che motivano la proposta della chiamata dall'estero di un Professore Associato (PA) SSD BIO-09.

Nell'Ateneo di Verona, la Fisiologia Umana (SSD BIO-09) comprende tre principali aree tematiche di ricerca: fisiologia comportamentale, neurofisiologia (filoni storici della fisiologia dell'Ateneo) e, più recentemente, fisiologia integrativa o dell'esercizio. Tali aree tematiche rispondono anche ad esigenze formative nel contesto dei Corsi di Laurea coordinati sia dalla Scuola di Medicina che dal Collegio di Scienze Motorie, nonché delle Scuole di Specializzazione dell'Ateneo.

Attualmente, a fronte di un carico didattico complessivo ben superiore alle mille ore annue di insegnamento *ex-cathedra* (escludendo le attività didattiche nell'ambito delle Scuole di Specializzazione e dei Corsi di Dottorato), meno della metà di tale carico è sopportato dai PO (3) e PA (1) incardinati nel SSD BIO-09. La parte restante è affidata onerosamente a RU del medesimo settore. Con tutta evidenza il settore è largamente sottodimensionato rispetto al carico didattico.

Il Dipartimento ha quindi individuato come prioritario il reclutamento per chiamata esterna di un PA (proponendo un candidato che presenta i requisiti richiesti dall'ANVUR secondo i parametri stabiliti per l'ASN che si è appena conclusa), finalizzato al consolidamento e rilancio della capacità didattica e della produttività scientifica del settore.

Infatti, l'attività scientifica del Dott. Juan Manuel Murias, di nazionalità canadese, attualmente in ruolo come "assistant professor tenure track" all'Università di Calgary (Alberta) per il quale viene proposta dal Dipartimento di Scienze Neurologiche e del Movimento una chiamata come PA, ben si inserisce nella progettualità e attività scientifiche individuate come strategiche dal Dipartimento stesso. Ciò in un SSD che, sulla base della valutazione ANVUR, ha urgente esigenza di venire rafforzato nell'Ateneo di Verona.

Il Dott. Juan Murias collabora proficuamente da anni con docenti del Dipartimento di Scienze Neurologiche e del Movimento nell'ambito di programmi bilaterali di ricerca istituiti nel 2006 tra l'Ateneo di Verona e la University of Western Ontario. Tale collaborazione ha beneficiato negli ultimi anni del programma di finanziamento Cooperint del nostro Ateneo.

Il reclutamento del Dott. Murias valorizzerebbe e rafforzerebbe, quindi, l'attività di ricerca dell'area Fisiologia Integrativa del Dipartimento di Scienze Neurologiche e del Movimento e concorrerebbe alla copertura del grande carico didattico del settore della Fisiologia in generale e della Fisiologia del Movimento in particolare.