



CURRICULUM VITAE

Personal Information

Rodolfo de Paula Vieira

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Nationality: Brazilian

Gender: male

Date of birth: 09 December 1979 (37 years old)

Marital status: Married – 02 sons (9 and 13 years old)

Current address: Rua Pedro Ernesto 240, Apartamento 251, São José dos Campos, SP, Brazil, CEP 12245-520.

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<https://www.ncbi.nlm.nih.gov/pubmed/?term=Vieira+RP+OR+Paula+Vieira+R+OR+de+Vieira+RP>

<https://scholar.google.com.br/citations?user=Y4A6FccAAAAJ&hl=en>

<http://www.researcherid.com/rid/E-9315-2011>

Actual main professional occupation

- **Research Group Leader and Head of the Laboratory of Pulmonary Exercise Immunology (LABPEI)** located in São José dos Campos, Brazil (since April/2014). www.labpei.com
- **Formal supervisor** of MSc program in Bioengineering of University Brasil, São Paulo, Brazil (since April/2017).
- **Formal supervisor** of MSc and PhD program in Human Movement and Rehabilitation Sciences of Federal University of Sao Paulo (UNIFESP),

Brazil (since October 2017).

- **Formal supervisor** of MSc and PhD program in Physiopathology of School of Medicine of University of São Paulo (FMUSP), Brasil (since October 2017).
- **Teaching activities:** School of Medical Sciences of São José dos Campos Humanitas: (1) graduate medical students (Scientific initiation and Human Physiology) (since May/2017).

Education

Post-Doctorate – Awarded by European Respiratory Society/Marie Curie/European Union – University Hospital Freiburg – Department of Pneumology – Host supervisor (Germany): PD Dr. Marco Idzko – Home supervisor (Brazil): Prof. Dr. Milton de Arruda Martins – 01 July/2010 to 20 June/2011.

Post-Doctorate – Albert-Ludwigs University of Freiburg – Department of Pneumology – Supervision: PD Dr. Marco Idzko – 26 January/2009 to 30 June/2010.

Post-Doctorate – University of Sao Paulo – School of Medicine – Department of Physical Therapy – Supervision: Prof. Dr. Celso Ricardo Fernandes Carvalho / Prof. Dr. Marisa Dolhnikoff / Prof. Dr. Milton de Arruda Martins – December/2007 until January/2009. Title of Project: “Evaluation of mechanisms involved in effects of aerobic training in an experimental model of chronic allergic lung inflammation”. Post-doctoral fellow from FAPESP (www.fapesp.br).

Doctorate in Science – PhD Pathology Program – University of São Paulo – School of Medicine – Department of Pathology – Supervision: Prof. Dr. Marisa Dolhnikoff – July/2004 to June/2007. Thesis: “Effects of physical training on the chronic allergic lung inflammation in mice”. PhD fellow from CAPES (www.capes.gov.br).

Master in Science – General Biology’s Program (Physiology and Pharmacology) – University of Vale of Paraíba – Supervision: Prof. Dr. Wellington Ribeiro – March/2002 to November/2003. Dissertation: “Effects of nandrolone decanoate on rats’ liver”. <http://www.univap.br>.

Graduation – Physical Education (Sports Sciences) – University of Vale of

Paraíba – February/1998 to December/2001. Course Conclusion Monograph: “Effects of nandrolone decanoate on the muscle mass of rats”. <http://www.univap.br>.

Technical Education

01- Bodybuilding Coach – Brazilian Confederation of Bodybuilders. Registration Number 004. <http://www.cbcm.com.br>.

Publication List – Rodolfo de Paula Vieira (Vieira RP, de Paula Vieira or Paula Vieira R, Vieira RdeP)

1. Moraes GC, Vitoretto LB, Alves CE, Britto AA, Oliveira NCR, Dias AS, Matos YST, Oliveira-Junior MC, Oliveira LVF, Palma RK, Candeco LC, Lino-dos-Santos-Franco A, Horliana ACRT, Gimenes Júnior JA, Aimbire F, **Vieira RP**, Oliveira APL. Low level laser therapy (LLLT) reduces lung inflammation in experimental model of chronic obstructive pulmonary disease (COPD) involving P2X7 receptor. **Oxid Med Cell Longev** 2017 (accepted).
2. Brandão-Rangel MAR, Bachi ALL, Oliveira-Junior MC, Abbasi A, Silva-Renno A, Britto AA, Oliveira APL, Toledo-Arruda AC, Belvisi MG, **Vieira RP**. Exercise Inhibits the Effects of Smoke-Induced COPD Involving Modulation of STAT-3. **Oxid Med Cell Longev** 2017 (accepted)..
3. Candeco LC, Rigonato-Oliveira NC, Britto A, Marcos RL, Franca CM, Fernandes KPS, Ferrari RAM, Bussadori SK, **Vieira RP**, Lino-dos-Santos-Franco A, Oliveira APL, Horliana ACR. Effects of periodontitis on the development of asthma: the role of photodynamic therapy. **PLoS One.**, 2017 (accepted).
4. Silva-Renno A, Baldivia GC, Oliveira-Junior MC, Brandao-Rangel MAR, El-Mafarjeh E, Dolhnikoff M, Mauad T, Brito J, Saldiva PHN, Oliveira LVF, Oliveira APL, Graudenz GS, **Vieira RP**. Exercise Performed Concomitantly with Particulate Matter Exposure Inhibits Lung Injury. **Int J Sports Med** 2017 (accepted).
5. Rigonato-Oliveira NC, Mackenzie B, Bachi ALL, Oliveira-Junior MC, Santos-Dias A, Andrade-Sousa A, Delle H, Assumpcao-Neto E, Damaceno-Rodrigues NR, Dulley LH, Abenetti MA, Malfitano C, Angelis K, Albertini R, Oliveira APL, Abbasi A, Northoff H, **Vieira RP**. Aerobic exercise inhibits acute lung injury: from mouse to human evidence. **Exe Immunol Rev** 2017 (accepted).
6. de Sousa EC, Abrahin O, Ferreira ALL, Rodrigues RP, Alves EAC, **Vieira RP**. Resistance training alone reduces systolic and diastolic blood pressure in prehypertensive and hypertensive individuals: meta-analysis. **Hypertens Res.** 2017 Aug 3. doi: 10.1038/hr.2017.69. [Epub ahead of print].

7. Müller T, Fay S, **Vieira RP**, Karmouty-Quintana H, Cicko S, Ayata CK, Zissel G, Goldmann T, Lungarella G, Ferrari D, Di Virgilio F, Robaye B, Boeynaems JM, Lazarowski ER, Blackburn MR, Idzko M. P2Y₆ Receptor Activation Promotes Inflammation and Tissue Remodeling in Pulmonary Fibrosis. **Front Immunol**. 2017 Aug 22;8:1028.
8. Almeida FM, Saraiva-Romanholo BM, **Vieira RP**, Moriya HT, Ligeiro-de-Oliveira AP, Lopes FD, Castro-Faria-Neto HC, Mauad T, Martins MA, Pazetti R. Compensatory lung growth after bilobectomy in emphysematous rats. **PLoS One**. 2017 Jul 27;12(7):e0181819.
9. Toledo-Arruda AC, **Vieira RP**, Guarnier FA, Suehiro CL, Coleman-Neto A, Olivo CR, Arantes PMM, Almeida FM, Lopes FDTQS, Ramos EMC, Cecchini R, Lin CJ, Martins MA. Time-course effects of aerobic physical training in the prevention of cigarette smoke-induced COPD. **J Appl Physiol** (1985). 2017 Sep 1;123(3):674-683.
10. Urbano JJ, da Palma RK, de Lima FM, Fratini P, Guimaraes LL, Uriarte JJ, Alvarenga LH, Miglino MA, **Vieira RP**, Prates RA, Navajas D, Farrè R, Oliveira LVF. Effects of two different decellularization routes on the mechanical properties of decellularized lungs. **PLoS One**. 2017 Jun 1;12(6):e0178696.
11. Müller T, Fay S, **Vieira RP**, Karmouty-Quintana H, Cicko S, Ayata K, Zissel G, Goldmann T, Lungarella G, Ferrari D, Di Virgilio F, Robaye B, Boeynaems JM, Blackburn MR, Idzko M. The purinergic receptor subtype P2Y₂ mediates chemotaxis of neutrophils and fibroblasts in fibrotic lung disease. **Oncotarget**. 2017 Mar 21. doi: 10.18632/oncotarget.16414. [Epub ahead of print].
12. Graudenz GS, Carneiro DP, **Vieira RP**. Trends in asthma mortality in the 0- to 4-year and 5- to 34-year age groups in Brazil. **J Bras Pneumol**. 2017 Jan-Feb;43(1):24-31.
13. Oliveira JS, Sant'Anna LB, Oliveira Junior MC, Souza PRM, Andrade Souza AS, Ribeiro W, **Vieira RP**, Hyslop S, Cogo JC. Local and hematological alterations induced by *Philodryas olfersii* snake venom in mice. **Toxicon**. 2017 Jun 15;132:9-17.
14. Camargo Hizume-Kunzler D, Greiffo FR, Fortkamp B, Ribeiro Freitas G, Keller Nascimento J, Regina Bruggemann T, Melo Avila L, Perini A, Bobinski F, Duarte Silva M, Rocha Lapa F, **Paula Vieira R**, Vargas Horewicz V, Soares Dos Santos AR, Cattelan Bonorino K. Aerobic Exercise Decreases Lung Inflammation by IgE Decrement in an OVA Mice Model. **Int J Sports Med**. 2017 Apr 7. doi: 10.1055/s-0042-121638. [Epub ahead of print].
15. ABBASI A, **VIEIRA RP**, BISCHOF F, WALTER M, MOVASSAGHI M, BERCHTOLD NC, NIESS AM, COTMAN CW, NORTHOFF H. Sex-specific variation in signaling pathways and gene expression patterns in human leukocytes in response to endotoxin and exercise. **Journal of Neuroinflammation** 2016, 13:289.
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17. BAUDISS, K. ; **VIEIRA, R. P.** ; CICKO, S. ; AYATA, K. ; HOSSFELD, M. ; BITTMAN, R. ; ELTZSCHIG, H. K. ; GOMEZ-MUNOZ, A. ; IDZKO, M.. C1P Attenuates Lipopolysaccharide-Induced Acute Lung Injury by Preventing NF-kB Activation in Neutrophils. **The Journal of Immunology** (1950. Online), v. 196, p. 1118-1126, 2016.
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 22. DUARTE, I. K. ; **VIEIRA, R. P.** ; GRAUDENZ, G. S. . Análise das tendências das internações hospitalares por asma no brasil de 1998 a 2010. **Brazilian Journal of Allergy and Immunology**, v. 3, p. 1-6, 2016.
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25. ALBERCA-CUSTÓDIO, RICARDO WESLEY ; GREIFFO, FLÁVIA REGINA ; MACKENZIE, BREANNE ; Oliveira-Junior, Manoel Carneiro ; ANDRADE-SOUSA, ADILSON SANTOS ; GRAUDENZ, GUSTAVO SILVEIRA ; SANTOS, ANGELA BATISTA GOMES ; DAMACENO-RODRIGUES, NILSA REGINA ; CASTRO-FARIA-NETO, HUGO CAIRE ; Arantes-Costa, Fernanda Magalhaes ; Martins, Milton de Arruda ; ABBASI, ASGHAR ; LIN, CHIN JIA ; IDZKO, MARCO ; LIGEIRO OLIVEIRA, ANA PAULA ; NORTHOFF, HINNAK ; **VIEIRA, RODOLFO PAULA** . Aerobic Exercise Reduces Asthma Phenotype by Modulation of the Leukotriene Pathway. **Frontiers in Immunology** (Online), v. 7, p. 237, 2016.
 26. RIGONI, V. L. S. ; KWASNIEWSKI, F. H. ; **VIEIRA, R. P.** ; LINHARES, I. S. ; SILVA, J. L. V. ; NOGUEIRA-PEDRO, A. ; ZAMUNER, S. R. . Human bronchial epithelial cells injury and cytokine production induced by Tityus serrulatus scorpion venom: An in vitro study. **Toxicon** (Oxford), v. 1, p. 222-228, 2016.
 27. SOUSA, A. S. A. ; PEREIRA, P. R. ; MACKENZIE, B. ; OLIVEIRA-JUNIOR, M. C. ; ASSUMPCAO NETO, E. ; BRANDAO-RANGEL, M. A. R. ; DAMACENO-RODRIGUES, N. R. ; CALDINI, E. G. ; VELOSA, A. P. P. ; TEODORO, W. R. ; OLIVEIRA, A. P. L. ; DOLHNIKOFF, M. ; EICKELBERG, O. ; **VIEIRA, R. P.** . Aerobic Exercise Attenuated Bleomycin-Induced Lung Fibrosis in Th2-Dominant Mice. **Plos One**, v. 11, p. e0163420, 2016.
 28. ABBASI, A. ; **VIEIRA, R. P.** ; BISCHOF, F. ; WALTER, M. ; MOVASSAGHI, M. ; BERCHTOLD, N. C. ; NIESS, A. M. ; COTMAN, C. W. ; NORTHOFF, H. . Sex-specific variation in signaling pathways and gene expression patterns in human leukocytes in response to endotoxin and exercise. **Journal of Neuroinflammation**, v. 13, p. 289-289, 2016.
 29. NASCIMENTO, E. S. P. ; GOMES, E. L. F. D. ; SOUZA, F. S. P. ; DIAS, F. ; SAMPAIO, L. M. M. ; GREIFFO, F. R. ; OLIVEIRA, A. P. L. ; STIRBULOV, R. ; **VIEIRA, R. P.** ; COSTA, D. . Home-based pulmonary rehabilitation improves clinical features and systemic inflammation in chronic obstructive pulmonary disease patients. **International Journal of COPD**, v. 10, p. 645-653, 2015.
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 32. BAUDISS, K. ; Ayata, C. K. ; LAZAR, Z. ; CICKO, S. ; BECKERT, J. ; MEYER, A. ; ZECH, A. ; **Vieira, R. P.** ; BITTMAN, R. ; GOMEZ-MUNOZ, A.

- ; MERFORT, I. ; IDZKO, M. . Ceramide-1-phosphate inhibits cigarette smoke-induced airway inflammation. **The European Respiratory Journal**, v. 45, p. 1669-1680, 2015.
33. PERON, J. P. S. ; PELLATY, M. ; BRANDAO, W. N. ; VITORETTI, L. B. ; GREIFFO, F. R. ; OLIVEIRA-JUNIOR, M. C. ; MALUF, M. ; EVANGELISTA, L. ; HALPERN, S. ; NISENBAUM, M. ; PERIN, P. ; CZERESNIA, P. ; CAMARA, N. O. S. ; ZATZ, M. ; AIMBIRE, F. ; **VIEIRA, R. P.** ; OLIVEIRA, A. P. L. . Human Tubal-Derived Mesenchymal Stromal Cells Associated with Low Level Laser Therapy Significantly Reduces Cigarette Smoke-Induced COPD in C57BL/6 mice. **Plos One**, v. 10, p. e0136942, 2015.
 34. AVILA, L. C. M. ; BRUGGEMANN, T. R. ; BOBINSKI, F. ; SILVA, M. D. ; OLIVEIRA, R. C. ; MARTINS, D. F. ; MAZZARDO-MARTINS, L. ; DUARTE, M. M. M. F. ; SOUZA, L. F. ; DAFRE, A. ; **VIEIRA, R. P.** ; SANTOS, A. R. S. ; BONORINO, K. C. ; KUNZLER, D. C. H. . Effects of High-Intensity Swimming on Lung Inflammation and Oxidative Stress in a Murine Model of DEP-Induced Injury. **Plos One**, v. 10, p. e0137273, 2015.
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- induced ARDS. **Journal of Photochemistry and Photobiology. B, Biology**, p. 100-110, 2014.
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Research Grants Received as Principal Investigator

01- Brazilian National Council for Research and Development (CNPQ). Research Grant - Project: "Role of Immune System in the Effects of Aerobic, Resistance and Combined Training in Elderly with and without Metabolic Syndrome". Amount: ≈ \$ 20.000. August/2016 until July/2019.

02- São Paulo Research Foundation (FAPESP). Young Research Grant - Project: Role of purinergic signaling and of SOCS-JAK-STAT signaling in the anti-inflammatory effects of aerobic training in experimental models of asthma and in asthmatic individuals. Amount: ≈ \$ 1.5 million + fellowships (scientific initiation-graduation students, MSc, PhD and Postdoc). April/2014 until March/2018.

03- Exchange Research Grant between São Paulo Research Foundation (FAPESP) and Imperial College London. Amount ≈ \$ 11.000. Collaboration with

Prof. Dr. Maria Belvisi. 2016-2017.

04- Exchange Research Grant between São Paulo Research Foundation (FAPESP) and Erasmus Rotterdam University/Ghent University, Belgium and Holland. Amount: ≈ \$ 11.000. Collaboration with Prof. Dr. Bart N. Lambrecht. 2016-2017.

05- Exchange Research Grant between São Paulo Research Foundation (FAPESP) and State Ministry of Sciences, Research and the Arts of the Free State of Bavaria, (StMWFK), Bavaria, Germany represented by the Bavarian University Center for Latin America (BAYLAT), Bavaria, Germany. Amount: ≈ \$ 26.000. Collaboration with Prof. Dr. Oliver Eickelberg. 2014-2015.

06- Exchange Research Grant between Brazilian Commission of Improvement of Professors (CAPES) and Deutscher Akademischer Austausch Dienst (DAAD). Project: Effects of aerobic exercise on LPS-induced acute respiratory distress syndrome: role of NF-kB and TLRs". Collaboration with Prof. Dr. Hinnak Northoff. 2014-2015.

07- Brazilian National Council for Research and Development (CNPQ). Projects: "Effects of Aerobic Physical Training on the Early and Late Asthmatic Response Induced by Acute Instillation of Different Products of Environmental Air Pollution", and "Effects of Aerobic Physical Training on the Pulmonary Alterations Induced by Different Products of Environmental Air Pollution". Co-investigator receiving ≈ EU 50.000 into a EU 1.5 million thematic project. 2010-2016.

08- Deutsche Forschungsgemeinschaft (DFG). Project: Effect of aerobic exercise on dendritic cell function in allergic airway inflammation. Amount: ≈ EU 160.000. 2009-2011.

09- Merck Sharp Dohme (MSD) Germany. Project: The role of leukotrienes on the anti-inflammatory effects of aerobic exercise in asthmatic patients and in mouse model of allergic airway inflammation. Amount: EU 58.900. 2009-2010.

Scientific Awards

01- ERS Silver Sponsorship: "Low Level Laser Therapy (LLLT) modulates pulmonary immune response and expression of P2X7 purinergic receptor in experimental model of COPD". **Milan-Italy/2017. European Respiratory Society.**

02- ERS Silver Sponsorship: "Aerobic training decreases pulmonary inflammation and airway hyperresponsiveness in a model of diet-induced obesity". **London-England/2016. European Respiratory Society.**

03- Outstanding Abstract Award for the study: Purinergic signaling is involved in the beneficial effects of aerobic exercise in a model of HDM-induced asthma. Jerusalem, Israel/2016. **World Allergy Organization.**

04- National Research Fellowship from CNPq (National Council for Research and Development) to be ranked between the 80 most productive professors of physical education of Brazil.

05- ERS Young Scientist Sponsorship: "Aerobic exercise reduces pulmonary inflammation in diet-induced obesity in a HDM model of asthma through adipokines, IL-10, IL-17 and IL-23". **Amsterdam-Netherlands/2015. European Respiratory Society.** Awarded to my MSc student.

06- ERS Young Scientist Sponsorship: "Effects of acute hypochlorite exposure in OVA-sensitized and challenged mice". **Amsterdam-Netherlands/2015. European Respiratory Society.** Awarded to my MSc student (co-supervision).

07- ERS Young Scientist Sponsorship: "Anti-inflammatory effects of aerobic exercise in a murine model of asthma: role of leukotrienes pathway". **Amsterdam-Netherlands/2015. European Respiratory Society.** Awarded to my MSc student (co-supervision).

08- Third place in the Poster presentation category (experimental surgery), for the study: Exercise immunology in mice. Medical Academic Congress (COMA), Nove de Julho University. 2016.

09- Young Researcher Grant: Respiratory Infection Aetiological Diagnosis for the study: Aerobic exercise inhibits pseudomonas aeruginosa-induced acute lung injury in elderly mice. **Munich-Germany/2014. European Respiratory Society.** Awarded to my MSc student.

- 10- ERS Grant for Best Abstract in Bacterial Pneumonia for the study: Aerobic exercise decreases pulmonary and extrapulmonary LPS-induced ARDS through IL-10 and TLR-4 modulation". **Munich-Germany/2014. European Respiratory Society.** Awarded to my MSc student.
- 11- ERS Silver Sponsorship in reference to the study "Leukotrienes Pathway are Involved in the Anti-inflammatory Effects Aerobic Exercise on Asthma". **Munich-Germany/2014. European Respiratory Society.** Awarded to my MSc student.
- 12- ERS Young Scientist in reference to the study "Aerobic training inhibits bleomycin-induced pulmonary fibrosis in BALB/c mice", **Munich-Germany/2014. European Respiratory Society.** Awarded to my MSc student.
- 13- ALAT First place - Best Study in Basic Research for the study: "Aerobic exercise improves the asthmatic phenotype through of reduction of ATP binding to P2X7 receptor". **Medellín/Colombia 2014. Latin American Association of Thorax (ALAT) / European Respiratory Society-ERS / Boehringer Ingelheim.**
- 14- Cell & Molecular Biology Young Scientist Travel Grant, European Respiratory Congress, **Amsterdam-Netherlands/2011, European Respiratory Society.**
- 15- Best Oral Presentation on the 30th EAACI Congress, **Istambul-Turkey/2011, European Academy of Allergy and Clinical Immunology (EAACI).**
- 16- Congress Travel Grant, 30th EAACI Congress, **Istambul-Turkey/2011, European Academy of Allergy and Clinical Immunology (EAACI).**
- 17- European Respiratory Society/Marie Curie/European Union – RESPIRE1 Fellowship Post-doctoral. Period: 01 July 2010 to 30 June 2011.
- 18- Long-term Fellowship, **European Academy of Allergy and Clinical Immunology (EAACI).** Period: 2010 to 2011. (The fellowship was returned for occasion of receipt of ERS/Marie Curie Fellowship).
- 19- ERS Bursary, ERS Lung Science Conference, **Estoril-Portugal/2010, European Respiratory Society.**
- 20- ERS Silver Sponsorship, European Respiratory Congress, **Wien/2009, European Respiratory Society.**
- 21- ERS Young Scientist, European Respiratory Congress, **Berlin/2008, European Respiratory Society.**

22- ERS Young Scientist, European Respiratory Congress, **Stockholm/2007, European Respiratory Society.**

23- ERS Gold Sponsorship, European Respiratory Congress, **Munich/2006, European Respiratory Society.**

Professional Experience / Positions Occupied

01- Associate Professor of School of Medical Sciences of São José dos Campos Humanita. Professor of the disciplines: Scientific Initiation and Human Physiology. Since May/2017.

02- Associate Professor of Universidade Brasil, Formal supervisor of the Master Program in Bioengineering. Since April/2017.

03- Formal advisor for MSc and PhD program in Human Movement and Rehabilitation Sciences of Federal University of Sao Paulo (UNIFESP).

04- Formal advisor for MSc and PhD program in Experimental Physiopathology of School of Medicine of University of Sao Paulo (USP).

05- Associate Professor of Nove de Julho University (Department of Medicine and of Rehabilitation Sciences) and Head of Laboratory of Pulmonary and Exercise Immunology (LABPEI). (<http://www.uninove.br/mestrado-e-doutorado/>). Since 20/01/12 until 20/06/2017. Activities performed at Nove de Julho University: teaching for graduate medical students (pneumology), (2) undergraduate and graduate students in kinesiology/physical education:[physical activity to elders and special populations and exercise physiology (complete curriculum): basic and applied; (3) Master and PhD students in Medicine and in Rehabilitation Sciences: Exercise Physiology, Cellular and Molecular Basis of Rehabilitation and Inflammation and Tissue repair; (4) Specialization courses in personal trainer, resistance training, exercise physiology: exercise immunology, neurosciences and exercise, etc.

06- Associate Researcher of Department of Pneumology of the University Hospital Freiburg (<http://www.uniklinik-freiburg.de>). 21/06/11 until 31/12/11.

07- Invited Researcher of Department of Pneumology of the University Hospital Freiburg (<http://www.uniklinik-freiburg.de>). 01/07/10 until 20/06/11.

- 08-** Post-doctoral fellow of Department of Pneumology of the University Hospital Freiburg (<http://www.uniklinik-freiburg.de>). 01/02/2009 until 30/06/2010.
- 09-** Post-doctoral fellow of School of Medicine of University of Sao Paulo. 01/12/2007 to 31/01/2009.
- 10-** Professor, coordinator and organizer of courses and training in Sports Nutrition (60 hours), Physical Training Preparation (60 hours), Bodybuilding/Weight Lifting in health and diseases (60 hours), Physical Evaluation (60 hours), Physical Rehabilitation (60 hours). Period: February/2002 to June/2004.
- 11-** Professor of disciplines of Human Anatomy, Human Physiology and Pharmacology for nurses' technical degree. Period: January/2006 to July/2006.
- 12-** Supervisor of students of Physical Therapy at University of Vale do Paraíba. Disciplines: cardiac rehabilitation, pulmonary rehabilitation, orthopedy, children and adult neurology (application of resistance training). Period February/2002 to November/2004.
- 13-** Professor of Physical Therapy Bachelor course at University of Vale do Paraíba. Discipline Mechanotherapy. Period: February/2002 to November/2004.
- 14-** Manager of RV Consulting Administration and Events. Period: January/2002 to December/2008.

Membership of Scientific Societies

- 01-** American Thoracic Society (ATS). Since 2016.
- 02-** American College of Sports Medicine (ACSM). Since 2014.
- 03-** Vice-president of Brazilian Society of Exercise Immunology. Since 2014.
- 04-** European Respiratory Society (ERS). Since 2010.
- 05-** European Academy of Allergy and Clinical Immunology (EAACI). Since 2010.
- 06-** International Society of Exercise and Immunology (ISEI). Since 2012.
- 07-** Brazilian Association of Allergy and Immunopathology (ASBAI). Since 2013.
- 08-** World Allergy Organization (WAO). Since 2013.
- 09-** Latin American Society of Thorax (ALAT). Since 2013.

Official Supervision of Master Students

- 1-** Manoel Carneiro de Oliveira Junior. Effects of low level laser therapy in acute lung inflammation. 2012-2013.
- 2-** Vanessa Roza da Silva. Effects of combined therapy low level laser and human mesenchymal stem cells on pulmonary inflammation in a model of COPD. 2012-2013. Co-supervision.
- 3-** Gianna Mões Albuquerque Pontes. Effects of different wave lengths, doses and interval applications of low level laser therapy on the activity of cytochrome c oxidase in skeletal muscle. 2012-2013. Co-supervision.
- 4-** Vera Lucia Silva Rigoni. Evaluation of the effects of low level laser therapy on vascular reactivity in rats. 2012-2013. Co-supervision.
- 5-** Elaine Cristina da Silveira. Effects of low level laser therapy on structural lung cells in response to fibrosis inducing agent. 2012-2014. Co-supervision.
- 6-** Marcio Parente. Analysis of the effects of laser irradiation in an experimental model of tendinitis in mal-nourished rats. 2011-2013. Co-supervision.
- 7-** Ricardo Wesley Alberca Custódio. Do the leukotrienes pathway contributes to the anti-inflammatory effects of aerobic exercise in asthma? 2013-2015.
- 8-** Flávia Regina Greiffo. Effects of aerobic exercise training in asthma: the role of purinergic signaling. 2013-2015.
- 9-** Adilson Santos Andrade de Sousa. Vascular response in asthma: effects of physical training and of creatine supplementation. 2013-2015.
- 10-** Paulo Rogério Pereira. Effects of aerobic training on pulmonary fibrosis. 2013-2015.
- 11-** Ana Roberta Almeida de Oliveira. The role of SOCS-JAK-STAT in the antiinflammatory effects of aerobic exercise in an experimental model of asthma. 2014-2016.
- 12-** Jefferson Comin Jonco Aquino Junior. Effects of aerobic physical training in obese asthmatic mice. 2014-2016.
- 13-** Auriléia Aparecida de Brito. Analysis of the effects of low level laser therapy on the allergic lung inflammation. 2014-2016. Co-supervision.

- 14-** Gabriel de Moraes. Effects of low level laser therapy in a COPD model. Co-supervision. 2014-2016.
- 15-** Nicole Cristiane Rigonato de Oliveira. Role of IL-10 in the anti-inflammatory effects of aerobic exercise in ARDS. 2012-2014.
- 16-** Jaime Eduardo Davino Chiovatto. Effects of leukotriene antagonism on acute respiratory distress syndrome. 2013-2015.
- 17-** Erasmo Assumpção Neto. Serum and pulmonary biomarkers on paediatric infection in by respiratory syntical virus. 2015-2017 (transferred to direct PhD).
- 18-** Adriano Silva Rennó. Effects of resistance training on pulmonary and systemic inflammation in COPD patients. 2015-2016.
- 19-** Maysa Alves Rodrigues Brandão Rangel. Effects of aerobic training on pulmonary and systemic inflammation in an experimental model of COPD. 2015-2016.

Official Supervision of PhD Students

- 1-** Manoel Carneiro de Oliveira Junior. Effects of aerobic training in asthmatic patients: role of purinergic signaling. 2014-2017.
- 2-** Heliadora Leão Casalechi. Modulation of anti-inflammatory factors in a model of Achilles tendon injury in rats. 2013-2015. Co-supervision.
- 3-** Flávia Mafra de Lima. Mechanism of action of low level laser therapy in an experimental model of asthma. 2011-2013. Co-supervision.
- 4-** Adison Santos Andrade de Sousa. Effects of aerobic training on pulmonary response in a model of lung adenocarcinoma. 2015-2017.
- 5-** Vera Lucia Silva Rigoni. Evaluation of upper and lower respiratory tract inflammatory response in different asthma phenotype. 2015-2018.
- 6-** Eviton Correa de Souza. Effects of high intensity resistance training on cardiometabolic and on pulmonary response in elderly with metabolic syndrome. 2015-2018.
- 7-** Maysa Alves Rodrigues Brandão Rangel. Effects of aerobic training on pulmonary and systemic inflammation in asthmatic patients. 2017-2019.

8- Adriano Silva Rennó. Effects of resistance training on pulmonary and systemic inflammation and functional capacity in elderly with metabolic syndrome. 2017-2019.

9- Erasmo Assumpção Neto. Serum and pulmonary biomarkers on paediatric infection in by respiratory syncytial virus. 2017-2018 (transferred to direct PhD).

Official Supervision of Post-doctorates

1- Néelson Serrão Junior. 2013-2015.

2- Renato Aparecido de Souza. 2013-2015.

3- Breanne Mackenzie. 2015-2017.

4- Roberta Foster. 2015-2017.

5- Paulo Cesar Caetano Junior. 2016-2018.

6- Claudio Ricardo Frison. 2017-2018.

7- Ana Carolina Araruna Alves. 2017-2018.

Editorial Board Activity

01- Journal of Allergy and Therapy. Since 2011.

02- Journal of Novel Physiotherapies. Since 2011.

03- Journal of General Practice. Since 2013.

04- Journal of Physiobiochemical Metabolism. Since 2013.

05- International Journal of Clinical and Medical Allergy. Since 2013.

06- Journal of Exercise Sports and Orthopedics. Since 2013.

07- Journal of Sports Medicine. Since 2014.

08- Journal of Allergy Disorders and Therapy. Since 2014.

09- Revista Terapia Manual. Since 2015.

10- Sports Medicine and Rehabilitation Journal. Since 2016.

11- Journal of Immunological Diseases, Disorders and Their Prevention. Since 2015.

12- Austin Journal of Clinical Immunology. Since 2016.

13- Journal of Immunological Diseases, Disorders and their Prevention. Since 2015.

Scientific Reviewer and Consulting Activities

- 01-** Brazilian Journal of Medical and Biological Research. Since 2009.
- 02-** Journal of Steroid Biochemistry and Molecular Biology. Since 2010.
- 03-** African Journal of Pharmacy and Pharmacological Research. Since 2011.
- 04-** Journal of Medical Plants Research. Since 2011.
- 05-** Journal of Inflammation Research. Since 2011.
- 06-** Journal of Asthma and Allergy. Since 2011.
- 07-** International Journal of Chronic Obstructive Pulmonary Disease. Since 2011.
- 08-** European Respiratory Journal. Since 2011.
- 09-** Toxicological Science. Since 2011.
- 10-** Brazilian National Ministry of Health (Ministério da Saúde do Brasil). Since 2009.
- 11-** Foundation of Support to Research of Sao Paulo State (Fundacao de Amparo à Pesquisa do Estado de Sao Paulo – FAPESP – www.fapesp.br). Since 2010.
- 12-** Brazilian National Council of Research and Development (Conselho Nacional de Pesquisa e Desenvolvimento - CNPQ – www.cnpq.br). Since 2010.
- 13-** Scandinavian Journal of Medicine & Science in Sports. Since 2010.
- 14-** Stress - The International Journal on the Biology of Stress. Since 2012.
- 15-** American Journal of Respiratory Cell and Molecular Biology. Since 2011.
- 16-** International Journal of Medicine and Medical Sciences. Since 2011.
- 17-** Journal of Receptor, Ligand and Channel Research. Since 2011.
- 18-** Muscle & Nerve (Print). Since 2012.
- 19-** Open Access Journal of Sports Medicine. Since 2012.
- 20-** Pathology and Laboratory Medicine International. Since 2012.
- 21-** Fonds Wetenschappelijk Onderzoek – Vlaanderen. Since 2012.
- 22-** Respiratory Medicine. Since 2013.
- 23-** International Journal of General Medicine. Since 2013.
- 24-** BMC Pulmonary Medicine. Since 2013.
- 25-** Journal of Allergy and Therapy. Since 2011.
- 26-** Fonds Wetenschappelijk Onderzoek – Vlaanderen. Since 2012.

- 27- Medical Science and Technology. Since 2013.
- 28- Journal of Physiobiochemical Metabolism. Since 2013.
- 29- Scientific Reports. Since 2014.
- 30- Life Sciences (1973). Since 2014.
- 31- Plos One. Since 2014.
- 32- Scientific Reports. Since 2014.
- 33- Applied Physiology, Nutrition and Metabolism. Since 2015.
- 34- Mediators of Inflammation. Since 2015.
- 35- Allergologia et Immunopathologia. Since 2014.
- 36- Motriz: Revista de Educação Física. Since 2015.
- 37- Journal of Physical Therapy Science. Since 2015.
- 38- BioMed Research International. Since 2015.
- 39- Immunity and Aging. Since 2015.
- 40- Molecular Medicine. Since 2015.
- 41- International Journal of Sports Medicine. Since 2015.
- 42- Sports Medicine and Rehabilitation Journal. Since 2015.
- 43- Journal of Photochemistry and Photobiology. B, Biology. Since 2016.
- 44- Respiriology. Since 2016.
- 45- Journal of Biophotonics. Since 2016.
- 46- Journal of Cellular Physiology. Since 2016.

Professional Courses/Education

- 01- **Bodybuilding Coach Formation:** Bodybuilding Federation of São Paulo State. Duration: 80 hours. <http://www.cbcm.com.br>.
- 02- **Bodybuilding: Theory and Practice** – Metropolitan United Faculties. Duration: 60 hours. <http://www.fmu.br>
- 03- **Physiological Basis of Sports Supplementation** – Institute of Biomedical Sciences – University of São Paulo. Duration: 35 hours. <http://www.icb.usp.br>

Educational Period of Training in Teaching During PhD

- 01- Problem based learning (PBL) training program during the teaching training

period of PhD, Discipline of Geriatrics, School of Medicine, University of São Paulo, February/2005 to July/2005.

Clinical and Laboratorial Skills

- 01-** Anthropometric evaluation of athletes and general population.
- 02-** Lactate and ergospirometric test.
- 03-** Histology and immunohistochemistry in paraffin and frozen sections.
- 04-** Morphometric and image analysis technique, including quantification of extracellular matrix proteins, cytokines, chemokines, growth factors, matrix metalloproteinases, enzymes, and quantification of expression of different immunological mediators by leukocytes, airway epithelium and smooth muscle.
- 05-** Different techniques with animal manipulation (i.e. intra-tracheal, oral, intra-peritoneal, sub-cutaneous administration, bronchoalveolar lavage, bone marrow lavage).
- 06-** Experience with animal model of physical training (swimming, treadmill and weight lifting training for mouse, rat and guinea pig).
- 07-** Experience with RT-PCR.
- 08-** Experience with western blotting.
- 09-** Experience with cell culture (primary and cell lineages) – isolation (bronchial epithelial cells, pneumocytes type II, fibroblasts, lymphocytes sub-populations, dendritic cells, neutrophils, eosinophils) from human and mouse lung, blood and bronchoalveolar lavage and other tissues.
- 10-** Experience with intra and extra-cellular ATP measurement.
- 11-** Experience with different ELISA assays.
- 12-** Experience with different models of lung diseases (i.e. acute and chronic ova and house dust mite induce allergic inflammation; LPS induce acute lung injury, chronic smoke induce lung emphysema, bleomycin induce lung fibrosis, urethane induce lung cancer, etc).
- 13-** Experience with different models of liver diseases (i.e. carbon tetrachloride induces liver cirrhosis; Con A induce hepatitis).
- 14-** Experience with flow cytometry.

- 15-** Lung function (spirometry) and lung mechanics (oscilometry).
- 16-** Exhaled nitric oxide measurements.
- 17-** Walking test with oxygen desaturation.
- 18-** Exhaled breath condensate collection and measurements of inflammatory, fibrotic and other mediators' measurements.
- 19-** Collection and analysis of cellular profile in induced sputum.