

Simposio Internacional: Fronteras purinérgicas: de la ciencia básica a los retos clínicos
International Symposium: Purinergic frontiers: from basic science to clinical challenges

Madrid, 11 y 12 de marzo de 2013
Madrid, March 11-12, 2013

CV

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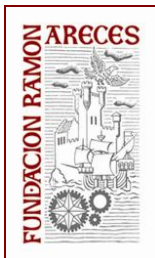
EDUCATION

DEGREE	YEAR OF AWARD	INSTITUTION	SCIENTIFIC FIELD
Ph.D.	1996	Institute of Biophysics Federal University of Rio de Janeiro, Brazil	Biophysics
Special topic	1992/1994	Institute of Biophysics Federal University of Rio de Janeiro, Brazil	Biophysics
Special topic	1990/1991	Teacher's Institute Exploratorium, San Francisco CA - USA	Science Education
BSc	1984	Institute of Physics Federal University of Rio de Janeiro, Brazil	Physics

FELLOWSHIPS AWARDED

2000-2002 The Wellcome Trust
The Travelling Research Fellowship for development of the project "The Role of P2 Receptors in Lymphohematopoietic System". Senior Researcher
Autonomic Neuroscience Institute –Royal Free and University College Medical School –
University College London –London-UK..

2000-2001 Brazilian National Research Council (CNPq)



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Postdoctoral Fellow Fellowship to investigate the Role of P2 Receptors in Lymphohematopoietic System on Autonomic Neuroscience Institute –Royal Free and University College Medical School – University College London UK.(canceled in 2000)

1999- 1999 Brazilian National Research Council (CNPq),
Research Fellowship to investigate the Expression and Function of P2 Purinergic Receptors on Lymphohematopoietic System.

1998 -1998 State of Rio de Janeiro Research Foundation (FAPERJ)
Financial Support to Attend the 10th International Congress of Immunology
New Delhi - India

1997/1998 State of Rio de Janeiro Research Foundation (FAPERJ)
Postdoctoral Fellow, fellowship to investigate the expression and function of P2 purinergic receptors in macrophages and dendritic Cells.

1994 - 1996 Brazilian National Research Council (CNPq),
Fellowship for Graduate Students (PhD in Biophysics)
TITLE OF THESIS : "Purinoceptors P2Z on Membrane of Phagocytic cells: The Study of Extracellular ATP-induced Channels and Permeabilization".

1992 -1994 Brazilian National Research Council (CNPq),
Fellowship for Graduate Students (MSc in Biophysics)
TITLE OF STUDY: "Ions Channels induced by Extracellular ATP on Macrophages".

PROFESSIONAL EXPERIENCE

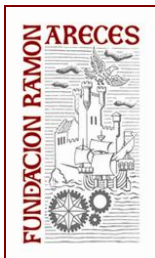
1998/ Associated Professor in Immunology and Physiology
Carlos Chagas Filho Biophysics Institute, Federal University of Rio de Janeiro - UFRJ, Rio de Janeiro, Brazil (Permanent position)

2000/2002 Senior Research Fellow
Department of Anatomy & Developmental Biology
University College London
London UK

1997/98 Postdoctoral Research Fellow in Immunology
-Institute of Biophysics, Federal University of Rio de Janeiro – Brazil
and Pasteur Institute - Paris, France.

1990/1992 Assistant Professor in Mathematics, Department of Mathematics, Souza Marques Engineering College, Rio de Janeiro, Brazil

1986/1992 Scientific Coordinator; Science Museum Espaço Ciência Viva



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- Rio de Janeiro, Brazil

ADMINISTRATION

2003/2008 – Head of Transgenic Animal House – Biophysics Institute – UFRJ
2006/2009 – Chief of Immunobiology Program – Biophysics Institute – UFRJ
2007/2010 - Co-coordenator of Graduate Program in Biological Science-Biophysics
2007- Head of Laboratory of Immunophysiology, Biophysics Institute - UFRJ
2009/2013 Associate Professor representing in Superior Board of Federal University of Rio de Janeiro - UFRJ
2009- 2012 Vice President of Hands on Science Museu Espaço Ciência Viva
2012- President of Hands on Science Museu Espaço Ciência Viva
2009- 2012 President of Brazilian Purines Club
2012- Vice-President of Brazilian Purines Club
2010 - 2012 Vice Director of Carlos Chagas Filho Biophysics Institute– Federal University of Rio de Janeiro

EDITORIAL RESPONSABILITIES

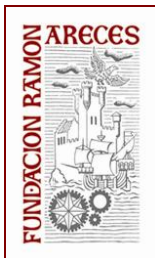
2013 – Biomedical Journal

REVIEWER LAST SIX YEARS (2008-)

Biochimica et Biophysica Acta. G, General Subjects , Journal of Immunology (Baltimore), Journal Biological Chemistry, NeuroReport (Oxford), Neuroimmunomodulation (Basel), Cell Proliferation, Biochimica et Biophysica Acta. Biomembranes, Biochimica et Biophysica Acta general subjects, Purinergic Signalling, British Journal of Pharmacology, Plos One, Pancreas, Leukemia, Cytometry, J. Immunol, Inflammation, Mediators of Inflammation, J. Innate Immunol.,

CURRENTLY RESEARCH GRANTS AWARDED

- 2012-2014 Purinergic Signalling in Inflammatory and infection diseases – Universal - Brazilian National Financial Support Program – CNPq.
- 2010 - 2012 Purinergic Signalling and Transduction Signalling in Nervous and Immune System – Think Rio – State of Rio de Janeiro Research Foundation (FAPERJ)
- 2010 - 2013 Hypertension and the Kidney: From Basic Physiopathology to Clinic – New Strategies of Study - State of Rio de Janeiro Research Foundation - PRONEX.
- 2010 - 2011 Science Communication in Everyday Population: Integration University-Museum-Society. Program of Dissemination and Popularization of Science and Technology - State of Rio de Janeiro Research Foundation (FAPERJ)
- 2009 - 2012 Purinergic Signaling in Inflammatory Diseases. State of Rio de Janeiro Research Foundation (FAPERJ)



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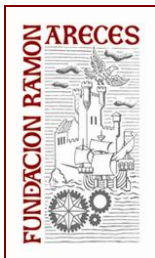
- 2010 - 2013 Purinergic Signaling in Inflammatory and parasitic diseases, microbicides mechanisms and inflammosome formation. Brazilian National Financial Support Program – CNPq.
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OTHER SCIENTIFIC ACTIVITIES

- Supervision concluded: three Pos-Doc, six graduated student and sixteen undergraduate students at MSc level.
- External examiner of fifty six MSc thesis and thirty two PhD thesis
- Organizer of several workshops and conferences.
- External Consultant to create a Life Science Museum on Fundação Oswaldo Cruz, Rio de Janeiro, Brazil

PEER REVIEWED PUBLICATIONS

1. SANTOS, A., RODRIGUES-JUNIOR, V., ZANIN, R. F., BORGES, T. J., BONORINO, C., COUTINHO-SILVA, R., Takiya, Christina M., SANTOS, D. S., CAMPOS, M. M., Morrone F.B. Implication of purinergic P2X7 receptor in *M. tuberculosis* infection and host interaction mechanisms: a mouse model study. *Immunobiology (Jena. 1979)*. , v.218, p.1104 - 1112, 2013.
2. Marques C. C., Castelo-Branco, Morgana Teixeira Lima, Pacheco R.G., Buongusto F., Rosário A., Schanaider A., COUTINHO-SILVA, R., de Souza, Heitor Siffert Pereira. Prophylactic systemic P2X7 receptor blockade prevents experimental colitis. *Biochimica et Biophysica Acta. Molecular Basis of Disease*. , v.online, p.30/10/2013 - , 2013.
3. WENGERT, M., RIBEIRO, M.C., ABREU, T.P., COUTINHO-SILVA, R., LEÃO-FERREIRA, L.R., Pinheiro, A.A.S., CARUSO-NEVES, C. Protein kinase C-mediated ATP stimulation of Na⁺-ATPase activity in LLC-PK1 cells involves a P2Y2 and/or P2Y4 receptor. *Archives of Biochemistry and Biophysics (Print)*. , v.1, p.1 - 142, 2013.
4. DA SILVA, G. L., SPEROTTO, N. D. M., BORGES, T. J., BONORINO, C., TAKYIA, C. M., COUTINHO-SILVA, R., CAMPOS, M. M., ZANIN, R. F., MORRONE, F. B. P2X7 receptor is required for neutrophil accumulation in a mouse model of irritant contact dermatitis. *Experimental Dermatology*. , Mar;22(3):184-8, 2013.
5. COUTINHO-SILVA, R., KANELLOPOULOS, JEAN M., PERFETTINI, JEAN-LUC. Cellular alarms and whispers contribute to the polyphonic melody of danger signals required for immunity. *Microbes and Infection*. , Nov;14(14):1239-40 , 2012.

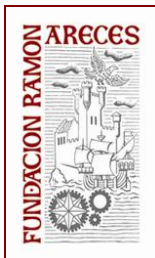


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6. de Campos, Nathalia Enes, Marques-da-Silva, Camila, Corrêa, Gladys, Castelo-Branco, Morgana Teixeira Lima, de Souza, Heitor Siffert Pereira, COUTINHO-SILVA, R. Characterizing the Presence and Sensitivity of the P2X7 Receptor in Different Compartments of the Gut. *J INNATE IMMUN.* , v.4, p.529 - 541, 2012.
7. Santos S.D., COUTINHO-SILVA, R., Silva C.L.M. Endothelial P2X7 receptors expression is reduced by schistosomiasis. *Purinergic Signalling (Print)*. Mar;9(1):81-9. 2013.
8. SOUZA, CAROLINA O., SANTORO, GIANI F., FIGLIUOLO, VANESSA R., NANINI, HAYANDRA FERREIRA, DE SOUZA, HEITOR S.P., Castelo-Branco, Morgana Teixeira Lima, ABALO, ALESSANDRA ALVES, PAIVA, MAURICIO M., COUTINHO, CLAUDIA M.L.M., COUTINHO-SILVA, R. Extracellular ATP induces cell death in human intestinal epithelial cells. *Biochimica et Biophysica Acta. G, General Subjects (Print)*. , v.1820, p.1867 - 1878, 2012.
9. PETTENGILL, M. A., Marques-da-Silva, Camila, AVILA, M. L., Santos S.D., LAM, V. W., OLLAWA, I., SATER, A. A. A., COUTINHO-SILVA, R., HACKER, G., OJCIUS, David M. Reversible Inhibition of Chlamydia trachomatis Infection in Epithelial Cells Due to Stimulation of P2X4 Receptors. *Infection and Immunity (Print)*. , v.80, p.4232 - 4238, 2012.
10. COUTINHO-SILVA, R., OJCIUS, David M. Role of extracellular nucleotides in the immune response against intracellular bacteria and protozoan parasites. *Microbes and Infection.* , Nov;14(14):1271-7. - , 2012.
11. Martins, J.P., Silva, R.B.M., COUTINHO-SILVA, R., SILVA, R. B. M., Takiya, C.M., Battastini, A.M.O., Morrone, F.B., MORRONE, F. B., CAMPOS, M.M. The role of P2X7 purinergic receptors in inflammatory and nociceptive changes accompanying cyclophosphamide-induced haemorrhagic cystitis in mice. *British Journal of Pharmacology.* , v.165, p.183 - 196, 2012.
12. de Campos, Nathalia Enes, Marques-da-Silva, Camila, Corrêa, Gladys, Castelo-Branco, Morgana Teixeira Lima, de Souza, Heitor Siffert Pereira, Coutinho-Silva, Robson Characterizing the Presence and Sensitivity of the P2X7 Receptor in Different Compartments of the Gut. *J INNATE IMMUN.* , v.4, p.529 - 541, 2012.
13. PEREIRA, Grazielle Rodrigues, Soares, K.C.M., COUTINHO-SILVA, R. Avaliação do grau de inserção dos museus de ciências na realidade escolar da Baixada Fluminense, Rio de Janeiro. *Ciências & Cognição (UFRJ)*. , v.16, p.096 - 112, 2011.
14. COSTA-JUNIOR, Helio Miranda, Sarmiento Vieira, Flávia, Coutinho-Silva, Robson. C terminus of the P2X7 receptor: treasure hunting. *Purinergic Signalling (Print)*. , v.7, p.7 - 19, 2011.
15. Marques-da-Silva, C., Chaves M. M., CASTRO, Newton Gonçalves de, COUTINHO-SILVA, R., Guimarães M.Z.P. Colchicine inhibits cationic dye uptake induced by ATP in



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P2X2 and P2X7 receptor-expressing cells: implications for its therapeutic action. *British Journal of Pharmacology*. , v.163, p.912 - 926, 2011.

16. BEVILACQUA, G. D., SORDILLO, M. O., COUTINHO-SILVA, R., Aquino V., Pessoa D.M.M. Developing Environmental and Scientific Education in School. *Facts Reports*. , v.online, p.1 - 6, 2011.

17. Marques-da-Silva, Camila, Chaves, Mariana Martins, Rodrigues, Juliany Cola, Corte-Real, Suzana, Coutinho-Silva, Robson, PERSECHINI, Pedro Muanis Differential Modulation of ATP-Induced P2X7-Associated Permeabilities to Cations and Anions of Macrophages by Infection with *Leishmania amazonensis*. *Plos One*. , v.6, p.e25356 - , 2011.

18. Marques-da-Silva, Camila, Chaves, Mariana M., CHAVES, Suzana Passos, FIGLIUOLO, Vanessa Ribeiro, MEYER-FERNANDES, José Roberto, Corte-Real, Suzana, Lameu, Claudiana, Ulrich, Henning, Ojcius, David M., Rossi-Bergmann, Bartira, Coutinho-Silva, Robson. Infection with *Leishmania amazonensis* upregulates purinergic receptor expression and induces host-cell susceptibility to UTP-mediated apoptosis. *Cellular Microbiology (Print)*. , v.13, p.1410 - 1428, 2011.

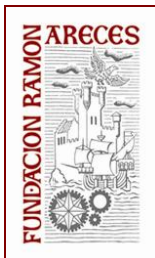
19. COSTA-JUNIOR, Helio Miranda, Marques-da-Silva, Camila, Vieira, Flavia Sarmiento, Monção-Ribeiro, Leonardo Campos, Coutinho-Silva, Robson, Lipid metabolism modulation by the P2X7 receptor in the immune system and during the course of infection: new insights into the old view. *Purinergic Signalling (Print)*. , v.7, p.381 - 392, 2011.

20. Monção-Ribeiro, Leonardo C., Cagido, Viviane R., Lima-Murad, Graziela, Santana, Patricia Teixeira, Riva, Douglas R., BOROJEVIC, Radovan, Zin, Walter A., Cavalcante, Moises C.M., Riça, Ingrid, Brando-Lima, Aline Cristina, Takiya, Christina M., Faffe, Débora S., Coutinho-Silva, Robson. Lipopolysaccharide-induced lung injury: Role of P2X7 receptor. *Respiratory Physiology & Neurobiology*. , v.179, p.314 - 325, 2011.

21. Meuser-Batista, Marcelo, Raimundo Correia, José, Frias Carvalho, Vinicius, de Carvalho Britto, Constança Felícia De Paoli, da Cruz Moreira, Otacilio, Meuser Batista, Marcos, José Soares, Maurilo, Alves Farias Filho, Francisco, e Silva, Patricia Machado R., Lannes-Vieira, Joseli, Coutinho Silva, Robson, Henriques-Pons, Andrea. Mast Cell Function and Death in *Trypanosoma cruzi* Infection. *The American Journal of Pathology (Print)*. , v.179, p.1894 - 1904, 2011.

22. PEREIRA, Grazielle Rodrigues, Soares, K.C.M., de Paula L.M., COUTINHO-SILVA, R. Museum-school interactions: the importance of continuing education programs for teachers in municipalities away from urban centres. *Facts Reports*. , v.Online, p.1 - 8, 2011.

23. Marques, Camila, BURNSTOCK, Geoffrey, OJCIUS, David M, COUTINHO-SILVA, R. Purinergic Receptors Agonists Modulate Phagocytosis and Clearance of Apoptotic Cells in Macrophages. *Immunobiology (Jena. 1979)*. , v.216, p.1 - 11, 2011.

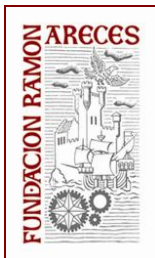


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24. ULRICH, A. H., COUTINHO-SILVA, R., Battastini AMO. The First Brazilian Purine Club Meeting. *Purinergic Signalling (Print)*. , v.7, p.85 - 140, 2011.
25. Corrêa, Gladys, Marques da Silva, Camila, de Abreu Moreira-Souza, Aline Cristina, Vommaro, Rossiane Claudia, Coutinho-Silva, Robson. Activation of the P2X7 receptor triggers the elimination of *Toxoplasma gondii* tachyzoites from infected macrophages. *Microbes and Infection*. , v.12, p.497 - 504, 2010.
26. PEREIRA, Grazielle Rodrigues, COUTINHO-SILVA, R. Avaliação do impacto de uma exposição científica itinerante em uma região carente do Rio de Janeiro: um estudo de caso. *Revista Brasileira de Ensino de Física (Impresso)*. , v.32, p.3601-1 - 3601-12, 2010.
27. Tamajusuku, Villodre. E., Romela, COUTINHO-SILVA, R., Battastini AMO, Wink. MR, Lenz G. Characterization of ATP-Induced Cell Death in the GL261 Mouse Glioma. *Journal of Cellular Biochemistry (Print)*. , v.109, p.983 - 991, 2010.
28. VIEIRA, Flavia Sarmiento, Correa Gladys, Lamas M.E., COUTINHO-SILVA, R. Host cell lipid rafts: a safe door to microorganisms?. *Biology of the Cell*. , v.102, p.391 - 407, 2010.
29. PEREIRA, L. A., FARIA, V. S., Pimenta, L., Andrieto, L.L.R., BANDEIRA, F. C. S., CAMANHO, S. S., COUTINHO-SILVA, R. Ciência e Educação Para Uma Sexualidade Consciente e Responsável. *Saúde e Educação para Cidadania*. , v.5, p.1 - 13, 2009.
30. SILVA, Camila Marques da, Welter-Stahl, L., SCHACHTER, Julieta, PERSECHINI, P. M., Souza, H.S., OJCIUS, David M, COUTINHO-SILVA, R. Expression of Purinergic Receptors and Modulation of P2X7 function by the Inflammatory Cytokine IFN γ in Human Epithelial Cells. *Biochimica et Biophysica Acta. Biomembranes*. , v.1788, p.1176 - 1187, 2009.
31. Waghbi, Mariana C, Coutinho-Silva, Robson, Feige, Jean-Jacques, Higuchi, Maria de Lourdes, Becker, David, BURNSTOCK, Geoffrey, Araújo-Jorge, Tânia C de Gap junction reduction in cardiomyocytes following transforming growth factor-beta; treatment and *Trypanosoma cruzi* infection. *Memórias do Instituto Oswaldo Cruz (Impresso)*. , v.104, p.1083 - 1090, 2009.
32. CHAVES, Suzana Passos, Torres-Santos, Eduardo Caio, Marques, Camila, FIGLIUOLO, Vanessa Ribeiro, PERSECHINI, Pedro Muanis, COUTINHO-SILVA, R., BERGMANN, Bartira Rossi. Modulation of P2X7 purinergic receptor in macrophages by *Leishmania amazonensis* and its role in parasite elimination. *Microbes and Infection*. , v.11, p.842 - 849, 2009.
33. COUTINHO-SILVA, R., Correa Gladys, Sater A.A., OJCIUS, David M. The P2X7 Receptor and Intracellular Pathogens: A Continuing Struggle. *Purinergic Signalling*. , v.5, p.197 - 204, 2009.

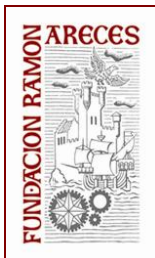


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34. PEREIRA, Grazielle Rodrigues, CHINELLI, Maura Ventura, COUTINHO-SILVA, R. Inserção dos Centros e Museus de Ciências na Educação: Estudo de caso do impacto de uma atividade museal itinerante. *Ciências & Cognição (UFRJ)*. , v.13, p.100 - 119, 2008.
35. SILVA, Camila Marques da, RODRIGUES, Luciana Miranda, GOMES, Andressa Passos da Silva, BARRADAS, Marcio Mantuano, VIEIRA, Flavia Sarmento, PERSECHINI, P. M., COUTINHO-SILVA, R. Modulation of P2X7 receptor expression in macrophages from mineral oil injected mice. *Immunobiology (Germany)*. , v.213, p.481 - 492, 2008.
36. CASCABULHO, Cynthia Machada, MENNA-BARRETO, R.F.S., COUTINHO-SILVA, R., PERSECHINI, Pedro Muanis, PONS, Andréia Henrique. P2X7 modulatory web in *Trypanosoma cruzi* infection. *Parasitology Research*. , v.103, p.829 - 838, 2008.
37. COUTINHO-SILVA, R., ROBSON, T., Beales P E, BURNSTOCK, Geoffrey Changes in expression of P2X7 receptors in NOD mouse pancreas during the development of diabetes. *Autoimmunity (Amsterdam)*. , v.40, p.108 - 116, 2007.
38. CHEUNG, Kwok-kuen, COUTINHO-SILVA, R., CHAN, W. Y., BURNSTOCK, Geoffrey. Early expression of Adenosine 5'-Thiophosphate-gated P2X7 receptors in the developing rat pancreas. *Pancreas (New York)*. , v.35, p.164 - 168, 2007.
39. BEVILACQUA, G. D., COUTINHO-SILVA, R. O ensino de Ciências na 5a série através da experimentação. *Ciências & Cognição (UFRJ)*. , v.10, p.84 - 92, 2007.
40. COUTINHO-SILVA, R., CRUZ, Cristiane Monteiro da, PERSECHINI, P. M., OJCIUS, David M The role of P2 receptors in controlling infections by intracellular pathogens. *Purinergic Signalling*. , v.3, p.83 - 90, 2007.
41. CRUZ, Cristiane Monteiro da, VENTURA, Ana Lúcia Marques, SCHACHTER, Julieta, COSTA-JUNIOR, Helio Miranda, SOUZA, Hercules Antonio da Silva, GOMES, Fernanda Ramos, COUTINHO-SILVA, R., OJCIUS, David M, PERSECHINI, Pedro Muanis. Activation of ERK1/2 by Extracellular Nucleotides in Macrophages is Mediated by Multiple P2 Receptors Independently of P2X7-associated Pore or Channel Formation. *British Journal of Pharmacology*. , v.147, p.324 - 334, 2006.
42. BERNARDO, Alcira A., PINTO-SILVA, Flavio Eduardo, PERSECHINI, Pedro Muanis, COUTINHO-SILVA, R., MEYER-FERNANDES, José Roberto, SOUZA, André Luiz Fonseca de, RUMJANEK, Vivian M. EFFECT OF EXTRACELLULAR ATP ON THE HUMAN LEUKAEMIC CELL LINE K562 AND ITS MULTIDRUG COUNTERPART. *Molecular and Cellular Biochemistry*. , v.289, p.111 - 124, 2006.
43. GONÇALVES, Rômulo G, GABRICH, Letícia, ROSÁRIO JR, Alison, TAKIYA, Christina Maeda, FERREIRA, Mona Lisa Leal, CHIARINI, Luciana Barreto, PERSECHINI, Pedro Muanis, COUTINHO-SILVA, R., LEITE JR, Maurilo, P2X7 purinergic receptor is involved in



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the process of renal inflammation and fibrosis of unilateral ureteral obstruction in mice.. *Kidney International.* , v.70, p.1599 - 1606, 2006.

44. COUTINHO-SILVA, R., KNIGHT, G.E., BURNSTOCK, Geoffrey Impairment of the Splenic Immune System in P2X2/P2X3 Knockout Mice.. *Immunobiology (Germany).* , v.209, p.661 - 668, 2005.

45. COUTINHO-SILVA, R., PERSECHINI, Pedro Muanis, MASUDA, Masako Oya, KURTENBACH, Eleonora *Interação Museu de Ciências-Universidade: Contribuições Para o Ensino Não Formal de Ciências.* . *Ciência e Cultura (SBPC).* , v.57, p.24 - 25, 2005.

46. COUTINHO-SILVA, R., OJCIUS, David M, GORECKI, Darek C, PERSECHINI, Pedro Muanis, BISAGGIO, Rodrigo da Cunha, MENDES, Anderson N, MARKS, Joanne, BURNSTOCK, Geoffrey, DUNN, Philip M Multiple P2X and P2Y receptor subtypes in mouse J774, spleen and peritoneal macrophages. *Biochemical Pharmacology.* , v.69, p.641 - 655, 2005.

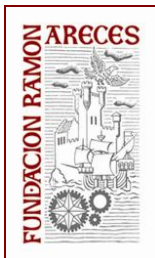
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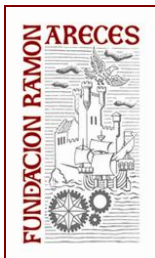


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