**Curricum Vitae - Wilson Savino**

**1. SUMMARY OF DATA**

Wilson Savino was graduated in Biological Sciences at the University of the State of Rio de Janeiro (1974), got his M.Sc. degree in Histology and Embryology at the Federal University of Rio de Janeiro (1979), Ph.D. degree in Cell and Tissue Biology at the University of São Paulo (1982), and developed a post-doc training in Cellular Immunology at Necker Hospital, Paris (1983-1985). In the same hospital, he was appointed as Visiting Scientist in 2001-2003.

He is Full Researcher at the Oswaldo Cruz Foundation (Fiocruz), and Coordinator of Strategies for National and Regional Integration of Fiocruz. He is past President of the Brazilian Society of Immunology (1993-1995), the Brazilian Society of Cell Biology (2010-2014) and the International Society of Neuroimmunomodulation (2011-2014).

He is Full member of the Brazilian Academy of Sciences and The World Academy of Sciences. Also, he is awarded with the titles of class 1A Researcher at the Brazilian Research Council (CNPq), and Researcher of the Rio de Janeiro State for Support of Research (Faperj). Additionally, he is member of the International Scientific Board of the Montevidéo Institut Pasteur (Uruguay). Furthermore, he is Editor-in-Chief of the journal NeuroImmunoModulation and Associated Editor of Nutritional Immunology, (a specialty of the Journals Frontiers in Immunology and Fronties in Nutrition).

He is the coordinator of the National Institute of Science and Technology on Neuroimmunomodulation (funded by the Brazilian Ministry of Science and Technology) and the Rio de Janeiro network on Neuroinflammation. He is also the Brazilian coordinator of the Mercosur (FOCEM) Program on “Research, Education and Biotechnology Applied to Health”.

He received a number of awards, among them the title of "Chevalier dans l'Ordre de Palmes Académiques" (France), Doctor Honoris causa by Sorbonne Université (France) the Luis Federico Leloir Medal (Argentinean government), Guest of Honor (National University of Rosário, Argentina) and Eduardo Charreau Award (Argentinean Government).

He has expertise in Cellular Immunology, with emphasis in the following research areas: 1. Physiology of cell migration in the hemopoietic System; 2. Immunoneuroendocrine interactions in health and disease; 3) Lymphocyte migration and death in infectious diseases; 4. Lymphocyte migration in organ transplantation and autoimmune diseases; 5. Cell migration in leukemias and lymphomas; 6. Cell migration, cell therapy and immunotherapy in neuromuscular diseases.

**2. PERSONNAL DATA**

Name: Wilson SAVINO

Professional Status: Full Researcher

Professional Address: Laboratory on Thymus Research, Oswaldo Cruz Institute, Oswaldo Cruz Foundation, Ave. Brasil 4365, Manguinhos, 21045-900, Rio de Janeiro, Brazil

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**3. ACADEMIC DEGREES**

3.5. Doctor Honoris Causa in Medicine: Sorbonne Université, Paris (2019)

3.4. Post-Doctoral training in Cellular Immunology (1983-1985) Hôpital Necker, Paris.

3.3. PhD degree in Histology and Tissue Biology (1982) University of São Paulo

3.2. MSc degree in Histology and Embryology (1979) Federal University of Rio de Janeiro

3.1. Bachelor of Sciences, Biological Sciences (1970-1974) State University of Rio de Janeiro

**4. SELECTED ACTIVITIES OF RESEARCH, TEACHING AND MANAGEMENT**

4.18. Coordinator of Strategies for Regional and National Integration of the Oswaldo Cruz Foundation (Fiocruz). June 2017 - present

4.17*.* Director of the Oswaldo Cruz Institute, June 2013 - May 2017.

4.17. Coordinator of the Rio de Janeiro Network on Neuroinflammation. January 2020 – present.

4.15. Coordinator of the Brazilian National Institute of Science and Technology on Neuroimmunomodulation. 2017 – present.

4.14. Head of the Laboratory of Thymus Research, Oswaldo Cruz Institute, Fiocruz, 1990-2013.

4.13. President of the International Society of Neuroimmunomodulation, January 2012-December 2014.

4.12. President of the Brazilian Society of Cell Biology, July 2010-September 2014

4.11. Editor-in-Chief of the Journal *Neuroimmunomodulation.* Karger Ed. Basel, Switzerland), April 2007 - present

4.10. Member of the International Scientific Board of Institut Pasteur, Montevidéo, July 2009-present.

4.9. Coordinator of the Inserm/Fiocruz International Associated Laboratory of Cell Therapy and Immunotherapy, 2009-2014.

4.8. Coordinator of the MSc Program on Health Sciences, conjointly organized by The Oswaldo Cruz Foundation and the Mozambican National Institute of Health (Maputo), August 2007-january 2014.

4.7. Visiting Professor, Université Pierre et Marie Curie, January -June 2011

4.6. Visiting Scientist – Hôpital Necker (Paris), August 2001 – July 2003.

4.5. Head of the Department of Immunology, Oswaldo Cruz Institute, 1999 – 2001.

4.4. President of the Brazilian Society of Immunology, 1993-1995.

4.3. Research Director, Brazilian National Cancer Institute, Rio de Janeiro, 1993-1994;

4.2. Responsible for the creation of the MSc/PhD program in Cellular and Molecular Biology, Oswaldo Cruz Institute, launched in march 1989;

4.1. Associate Professor, Department of Histology and Embryology, Institute of Biomedical Sciences, Federal University of Rio de Janeiro, 1977-1987;

**5. ORGANIZATION OF SCIENTIFIC MEETINGS**

5.20. International symposium on Neuroinflammation, Fortaleza, November, 2017

5.19. 5.19. VIII Conference of the International Society of Immunonutrition, Rio de Janeiro, November, 2015

5.18. I Fiocruz-Pasteur Symposium. Rio de Janeiro, June 2015.

5.17. Fiocruz-Aviesan Symposium on Neuroscience. Rio de Janeiro, May 2014.

5.16. Congress of the Brazilian Society for Cell Biology. Foz do Iguaçu, September 2014

5.15. The Thymus and T Cell Biology in Health and Disease, Rio de Janeiro, August, 2011.

5.14. VII Congress of the International Society of Neuroimmunomodulation. Rio de Janeiro, April 24-27, 2008

5.13. XIII Congress of the Brazilian Society for Cell Biology / VIII Brazilian Symposium on Extracellular Matrix / III International Symposium on Extracellular Matrix. Búzios, July 26-30, 2006.

5.12. Co-organizer of the French-Brazilian cooperation in Heath: past, present and future. Paris, November 14-16, 2005.

5.11. Co-organizer of the 1st Joint Meeting of the Brazilian and the French Academies of Sciences. Paris, October 10-11, 2005.

5.10. Fiocruz/Inserm Joint Meeting: 15 years of scientific cooperation. Rio de Janeiro, October 03-05, 2005

5.9. Co-organizer of the American Pole Meeting of the International Network of Pasteur Institutes. Rio de Janeiro, April 15-17 2005.

5.8. 1st Iberoamerican Congress on Neuroimmunomodulation. Rio de Janeiro, April 10-13 2005.

5.7. Fiocruz/Inserm Joint Meeting on Cellular and Molecular Basis of Infectious and Autoimmune Diseases . Rio de Janeiro, October 01-04, 2000

5.6. XX Congress of the Brazilian Society of Immunology. Angra dos Reis (Rio de Janeiro), 10-13 September 1995.

5.5. International Symposium: Immunoneuroendocrine interactions in autoimmune and infectious diseases. Rio de Janeiro, 24-28 April, 1994.

5.4. XIX Congress of the Brazilian Society of Immunology. Caxambu, 24-28 August, 1994.

5.3. European Union/Fiocruz Joint Meeting on Molecular Basis of Pathogenesis and Virulence of Infectious and Parasitic Diseases. Rio de Janeiro, 25-29 November, 1991.

5.2. 1st Brazilian Symposium on Extracellular Matrix. Itatiaia (Rio de Janeiro), 13-16 September, 1990.

5.1. International Symposium on Immunomodulators: Biology and Therapeutic Applications. Rio de Janeiro, 26-30 April 1987.

**6. EDITOR FOR SPECIAL ISSUES IN SCIENTIFIC JOURNALS**

6.8. Hormones, Neurotransmitters, and T-Cell Development in Health and Disease, Frontiers in Endocrinoloy, 2018.

6.7. Endocrine Immunology. Frontiers in Hormone Research, 2017

6.6. T-cell Migration, Frontiers in Immunology, 2015

6.5. Neuroendocrineimmunology of the thymus. Neuroimmunomodulation, vo.18 (5), 2011.

6.4. Role of extracellular matrix in the immune system. *Dev. Immunol.* - vol 7, 2000.

6.3.Neuroendocrine control of the thymus - *NeuroImmunoModulation -* vol. 6,1999.

6.2. Molecular Basis of Pathogenesis and Virulence of Infectious and Parasitic Diseases. *Mem. Inst. Oswaldo Cruz* – vol 87 (suppl. V), 1992.

6.1. Immunomodulators: biology and therapeutic applications*. Mem. Inst. Oswaldo Cruz* vol. 82 (suppl. II), 1987.

**7. THESIS SUPERVISING:**

PhD Theses: 54 ; MSc Dissertations: 42

**8. AWARDS**

8.11. Eduardo Charreau Award (1st Edition), granted by the Argentinean governemt Received on June 4th

8.10. Doctor Honoris Causa of the Sorbonne University. Title received on Sptember 11, 2019.

8.9. Elected member of The Word Academy of Sciences (TWAS). Started on January 1st 2020.

8.8. Diploma and medal Luis Leloir, given by the Argentinean Ministry of Science, Technology and Productive Innovation. Ceremony held in Buenos Aires, November 2013.

8.7. Diploma and medal of “*Chevalier dans l’Ordre des Palmes Académiques*”, given by the French Ministry of Education. Ceremony held in Rio de Janeiro, August 2013.

8.6. Guest of Honor of the National University of Rosario School of Medicine. Title granted during the international conference: *Enfermedad de Chagas: ante sala de los 100 años*, on November 15th 2008, Rosario, Argentina.

8.5. The scientific cooperation by Wilson Savino and Mireille Dardenne was chosen to represent successful French-Brazilian collaboration in health sciences, being part of the exposition *Médecine, Science et Santé dans les rapports Brésil-France*, held from 15 november to 18 december 2005, at Musée du Service de Santé des Armées du Val de Grâce 1, Paris, France.

8.4. Elected member of the Brazilian Academy of Sciences – election held in 2003.

8.3. Creation of the Ph.D. / M.Sc. Post-graduation Program on Cellular and Molecular Biology at the Oswaldo Cruz Foundation, Rio de Janeiro – This program was created in march 1989, and since then received a degree of excellence provided by the Brazilian Ministry of Education, after regular evaluation by an international committee. The award was given in March 2003, in Rio de Janeiro.

8.2. Creation of the first “*Symposium on Extracellular Matrix*” in Brazil (1990) - This award was given during the International Symposium on Extracellular Matrix, Angra dos Reis, Brazil, September 2002.

8.1. Brazilian Citation Classics - Diploma awarded by the "*Institute for Scientific Information*" for being author of the most cited paper in Immunology, written by Brazilian scientists, during the 1990 decade.Savino W, Villa Verde DMS & Lannes Vieira J (1993) Extracellular matrix proteins in intrathymic T cell migration and differentiation? *Immunol. Today* 14: 158-161. The award was given in São Paulo, in April 2001.

**WILSON SAVINO – LIST OF PUBLICATIONS**

**(retrieved from the PubMed Database)**

324: Francelin C, Geniseli I, Nagib P, Gameiro J, Savino W, Verinaud L. Semaphorin-3A-Related Reduction of Thymocyte Migration in Chemically Induced Diabetic Mice. Neuroimmunomodulation. 2020 Mar 10:1-10. doi: 10.1159/000506054. [Epub ahead of print] PubMed PMID: 32155637.

323: Santos VRCD, Antunes D, Souza DDSM, Moreira OC, Lima ICA, Farias-de-Oliveira DA, Lobo JP, de Meis E, Coura JR, Savino W, Junqueira ACV, de Meis J. Human acute Chagas disease: changes in factor VII, activated protein C and hepatic enzymes from patients of oral outbreaks in Pará State (Brazilian Amazon). Mem Inst Oswaldo Cruz. 2020 Feb 27;115:e190364. doi: 10.1590/0074-02760190364. eCollection 2020. PubMed PMID: 32130371; PubMed Central PMCID: PMC7046146.

322: Linhares-Lacerda L, Temerozo JR, Ribeiro-Alves M, Azevedo EP, Mojoli A, Nascimento MTC, Silva-Oliveira G, Savino W, Foguel D, Bou-Habib DC, Saraiva EM. Neutrophil extracellular trap-enriched supernatants carry microRNAs able to modulate TNF-α production by macrophages. Sci Rep. 2020 Feb 17;10(1):2715. doi: 10.1038/s41598-020-59486-2. PubMed PMID: 32066757

321: Messias CV, Loss-Morais G, Carvalho JB, González MN, Cunha DP, Vasconcelos Z, Arge LWP, Farias-de-Oliveira DA, Gerber AL, Portari EA, Ferreira N, Raphael LMS, Bonaldo MC, Riederer I, Lopes Moreira ME, Cotta-de-Almeida V, Vasconcelos ATR, Mendes-da-Cruz DA, Savino W. Zika virus targets the human thymic epithelium. Sci Rep. 2020 Jan 28;10(1):1378. doi: 10.1038/s41598-020-58135-y. PubMed PMID: 31992777.

320: Messias CV, Lemos JP, Cunha DP, Vasconcelos Z, Raphael LMS, Bonaldo MC, Cister-Alves B, Bou-Habib DC, Cotta-de-Almeida V, Savino W, Mendes-da-Cruz DA. Zika virus infects human blood mononuclear cells. BMC Infect Dis. 2019 Nov 21;19(1):986. doi: 10.1186/s12879-019-4622-y. PubMed PMID: 31752731

319: Losada-Barragán M, Umaña-Pérez A, Durães J, Cuervo-Escobar S, Rodríguez-Veja A, Ribeiro-Gomes FL, Berbert LR, Morgado F, Porrozzi R, Mendes-da-Cruz DA, Aquino P, Carvalho PC, Savino W, Sánchez-Gómez M, Padrón G, Cuervo P. Thymic Microenvironment Is Modified by Malnutrition and *Leishmania infantum* Infection. Front Cell Infect Microbiol. 2019 Jul 12;9:252. doi: 10.3389/fcimb.2019.00252. eCollection 2019. PubMed PMID: 31355153

318: Pérez AR, Mendes-da-Cruz DA, Geenen V, Savino W. Editorial: Hormones, Neurotransmitters, and T-Cell Development in Health and Disease. Front Endocrinol (Lausanne). 2019 Jul 11;10:454. doi: 10.3389/fendo.2019.00454. eCollection 2019. PubMed PMID: 31354626.

317: Antunes D, Marins-Dos-Santos A, Ramos MT, Mascarenhas BAS, Moreira CJC, Farias-de-Oliveira DA, Savino W, Monteiro RQ, de Meis J. Oral Route Driven Acute *Trypanosoma cruzi* Infection Unravels an IL-6 Dependent Hemostatic Derangement. Front Immunol. 2019 May 14;10:1073. doi: 10.3389/fimmu.2019.01073. eCollection 2019. PubMed PMID: 31139194

316: Bensalah M, Klein P, Riederer I, Chaouch S, Muraine L, Savino W, Butler-Browne GS, Trollet C, Mouly V, Bigot A, Negroni E. Combined methods to evaluate human cells in muscle xenografts. PLoS One. 2019 May 2;14(5):e0211522. doi: 10.1371/journal.pone.0211522. eCollection 2019. PubMed PMID: 31048846.

315: Baronio D, Bauer-Negrini G, Castro K, Della-Flora Nunes G, Riesgo R, Mendes-da-Cruz DA, Savino W, Gottfried C, Bambini-Junior V. Reduced CD4 T Lymphocytes in Lymph Nodes of the Mouse Model of Autism Induced by Valproic Acid. Neuroimmunomodulation. 2018;25(5-6):280-284. doi: 10.1159/000491395. PubMed PMID: 30121669.

314: Mendes-da-Cruz DA, Lemos JP, Passos GA, Savino W. Abnormal T-Cell Development in the Thymus of Non-obese Diabetic Mice: Possible Relationship With the Pathogenesis of Type 1 Autoimmune Diabetes. Front Endocrinol (Lausanne). 2018 Jul 12;9:381. doi: 10.3389/fendo.2018.00381. eCollection 2018. Review. PubMed PMID: 30050502

313: Jurberg AD, Cotta-de-Almeida V, Temerozo JR, Savino W, Bou-Habib DC, Riederer I. Neuroendocrine Control of Macrophage Development and Function. Front Immunol. 2018 Jun 25;9:1440. doi: 10.3389/fimmu.2018.01440. eCollection 2018. Review. PubMed PMID: 29988513.

312: Pérez AR, Morrot A, Carvalho VF, de Meis J, Savino W. Role of Hormonal Circuitry Upon T Cell Development in Chagas Disease: Possible Implications on T Cell Dysfunctions. Front Endocrinol (Lausanne). 2018 Jun 14;9:334. doi: 10.3389/fendo.2018.00334. eCollection 2018. Review. PubMed PMID: 29963015

311: Lemos JP, Smaniotto S, Messias CV, Moreira OC, Cotta-de-Almeida V, Dardenne M, Savino W, Mendes-da-Cruz DA. Sphingosine-1-Phosphate Receptor 1 Is Involved in Non-Obese Diabetic Mouse Thymocyte Migration Disorders. Int J Mol Sci. 2018 May 12;19(5). pii: E1446. doi: 10.3390/ijms19051446. PubMed PMID: 29757216.

310: Ladislau L, Portilho DM, Courau T, Solares-Pérez A, Negroni E, Lainé J, Klatzmann D, Bonomo A, Allenbach Y, Benveniste O, Riederer I, Savino W, Mouly V, Butler-Browne G, Benjamim CF. Activated dendritic cells modulate proliferation and differentiation of human myoblasts. Cell Death Dis. 2018 May 1;9(5):551. doi: 10.1038/s41419-018-0426-z. PubMed PMID: 29748534

309: Santos VRCD, Meis J, Savino W, Andrade JAA, Vieira JRDS, Coura JR, Junqueira ACV. Acute Chagas disease in the state of Pará, Amazon Region: is it increasing? Mem Inst Oswaldo Cruz. 2018;113(5):e170298. doi: 10.1590/0074-02760170298. Epub 2018 May 7. PubMed PMID: 29742200.

308: Nico D, Conde L, Rivera-Correa JL, Vasconcelos-Dos-Santos A, Mesentier-Louro L, Freire-de-Lima L, Arruda MB, Freire-de-Lima CG, Ferreira ODC Jr, Lopes Moreira ME, Zin AA, Vasconcelos ZFM, Otero RM, Palatnik-de-Sousa CB, Tanuri A, Todeschini AR, Savino W, Rodriguez A, Morrot A. Prevalence of IgG Autoantibodies against GD3 Ganglioside in Acute Zika Virus Infection. Front Med (Lausanne). 2018 Mar 9;5:25. doi: 10.3389/fmed.2018.00025. eCollection 2018. PubMed PMID: 29594116.

307: Linhares-Lacerda L, Granato A, Gomes-Neto JF, Conde L, Freire-de-Lima L, de Freitas EO, Freire-de-Lima CG, Coutinho Barroso SP, Jorge de Alcântara Guerra R, Pedrosa RC, Savino W, Morrot A. Circulating Plasma MicroRNA-208a as Potential Biomarker of Chronic Indeterminate Phase of Chagas Disease. Front Microbiol. 2018 Mar 6;9:269. doi: 10.3389/fmicb.2018.00269. eCollection 2018. PubMed PMID: 29559958.

306: Savino W, Pinto-Mariz F, Mouly V. Flow Cytometry-Defined CD49d Expression in Circulating T-Lymphocytes Is a Biomarker for Disease Progression in Duchenne Muscular Dystrophy. Methods Mol Biol. 2018;1687:219-227. doi: 10.1007/978-1-4939-7374-3\_16. PubMed PMID: 29067667.

305: González MN, de Mello W, Butler-Browne GS, Silva-Barbosa SD, Mouly V, Savino W, Riederer I. HGF potentiates extracellular matrix-driven migration of human myoblasts: involvement of matrix metalloproteinases and MAPK/ERK pathway. Skelet Muscle. 2017 Oct 10;7(1):20. doi: 10.1186/s13395-017-0138-6. PubMed PMID: 29017538

304: Losada-Barragán M, Umaña-Pérez A, Cuervo-Escobar S, Berbert LR, Porrozzi R, Morgado FN, Mendes-da-Cruz DA, Savino W, Sánchez-Gómez M, Cuervo P. Erratum: Protein malnutrition promotes dysregulation of molecules involved in T cell migration in the thymus of mice infected with Leishmania infantum. Sci Rep. 2017 Sep 25;7:46809. doi: 10.1038/srep46809. PubMed PMID: 28944769.

303: Carvalho Barros LR, Linhares-Lacerda L, Moreira-Ramos K, Ribeiro-Alves M, Machado Motta MC, Bou-Habib DC, Savino W. HTLV-1-infected thymic epithelial cells convey the virus to CD4(+) T lymphocytes. Immunobiology. 2017 Dec;222(12):1053-1063. doi: 10.1016/j.imbio.2017.08.001. Epub 2017 Aug 14. PubMed PMID: 28888743.

302: Golbert DCF, Santana-Van-Vliet E, Ribeiro-Alves M, Fonsêca MMBD, Lepletier A, Mendes-da-Cruz DA, Loss G, Cotta-de-Almeida V, Vasconcelos ATR, Savino W. Small interference ITGA6 gene targeting in the human thymic epithelium differentially regulates the expression of immunological synapse-related genes. Cell Adh Migr. 2018 Mar 4;12(2):152-167. doi: 10.1080/19336918.2017.1327513. Epub 2017 Aug 30. PubMed PMID: 28494186

301: Losada-Barragán M, Umaña-Pérez A, Cuervo-Escobar S, Berbert LR, Porrozzi R, Morgado FN, Mendes-da-Cruz DA, Savino W, Sánchez-Gómez M, Cuervo P. Protein malnutrition promotes dysregulation of molecules involved in T cell migration in the thymus of mice infected with Leishmania infantum. Sci Rep. 2017 Apr 11;7:45991. doi: 10.1038/srep45991. Erratum in: Sci Rep. 2017 Sep 25;7:46809. Sci Rep. 2017 Sep 25;7(1):46809. PubMed PMID: 28397794.

300: Silva-Dos-Santos D, Barreto-de-Albuquerque J, Guerra B, Moreira OC, Berbert LR, Ramos MT, Mascarenhas BAS, Britto C, Morrot A, Serra Villa-Verde DM, Garzoni LR, Savino W, Cotta-de-Almeida V, de Meis J. Unraveling Chagas disease transmission through the oral route: Gateways to Trypanosoma cruzi infection and target tissues. PLoS Negl Trop Dis. 2017 Apr 5;11(4):e0005507. doi: 10.1371/journal.pntd.0005507. eCollection 2017 Apr. PubMed PMID: 28379959

299: Savino W. Endocrine Immunology of Chagas Disease. Front Horm Res. 2017;48:160-175. doi: 10.1159/000452914. Epub 2017 Feb 28. Review. PubMed PMID: 28245460.

298: Savino W. Prolactin: An Immunomodulator in Health and Disease. Front Horm Res. 2017;48:69-75. doi: 10.1159/000452906. Epub 2017 Feb 28. Review. PubMed PMID: 28245452.

297: Cotta-de-Almeida V, Dupré L, Savino W. Editorial: T-Cell Migration in Health and Disease. Front Immunol. 2017 Feb 13;8:132. doi: 10.3389/fimmu.2017.00132. eCollection 2017. PubMed PMID: 28243238.

296: Savino W, Messias CV, Mendes-da-Cruz DA, Passos P, Ferreira AC, Nascimento OJ. Zika Virus Infection in the Elderly: Possible Relationship with Guillain-Barré Syndrome. Gerontology. 2017;63(3):210-215. doi: 10.1159/000453579. Epub 2016 Dec 22. Review. PubMed PMID: 28002820.

295: Messias CV, Santana-Van-Vliet E, Lemos JP, Moreira OC, Cotta-de-Almeida V, Savino W, Mendes-da-Cruz DA. Sphingosine-1-Phosphate Induces Dose-Dependent Chemotaxis or Fugetaxis of T-ALL Blasts through S1P1 Activation. PLoS One. 2016 Jan 29;11(1):e0148137. doi: 10.1371/journal.pone.0148137. eCollection 2016. PubMed PMID: 26824863.

294: González FB, Calmon-Hamaty F, Nô Seara Cordeiro S, Fernández Bussy R, Spinelli SV, D'Attilio L, Bottasso O, Savino W, Cotta-de-Almeida V, Villar SR, Pérez AR. Trypanosoma cruzi Experimental Infection Impacts on the Thymic Regulatory T Cell Compartment. PLoS Negl Trop Dis. 2016 Jan 8;10(1):e0004285. doi: 10.1371/journal.pntd.0004285. eCollection 2016 Jan. PubMed PMID: 26745276.

293: Pinto-Mariz F, Rodrigues Carvalho L, Prufer De Queiroz Campos Araujo A, De Mello W, Gonçalves Ribeiro M, Cunha Mdo C, Cabello PH, Riederer I, Negroni E, Desguerre I, Veras M, Yada E, Allenbach Y, Benveniste O, Voit T, Mouly V, Silva-Barbosa SD, Butler-Browne G, Savino W. CD49d is a disease progression biomarker and a potential target for immunotherapy in Duchenne muscular dystrophy. Skelet Muscle. 2015 Dec 10;5:45. doi: 10.1186/s13395-015-0066-2. eCollection 2015. PubMed PMID: 26664665.

292: Savino W, Mendes-da-Cruz DA, Golbert DC, Riederer I, Cotta-de-Almeida V. Laminin-Mediated Interactions in Thymocyte Migration and Development. Front Immunol. 2015 Nov 17;6:579. doi: 10.3389/fimmu.2015.00579. eCollection 2015. Review. PubMed PMID: 26635793.

291: Reis MD, Csomos K, Dias LP, Prodan Z, Szerafin T, Savino W, Takacs L. Decline of FOXN1 gene expression in human thymus correlates with age: possible epigenetic regulation. Immun Ageing. 2015 Oct 29;12:18. doi: 10.1186/s12979-015-0045-9. eCollection 2015. PubMed PMID: 26516334.

290: Arzt E, Savino W, Barbeito L. Editorial. FEBS Lett. 2015 Nov 14;589(22):3329. doi: 10.1016/j.febslet.2015.10.007. Epub 2015 Oct 22. PubMed PMID: 26472322.

289: Riederer I, Bonomo AC, Mouly V, Savino W. Laminin therapy for the promotion of muscle regeneration. FEBS Lett. 2015 Nov 14;589(22):3449-53. doi: 10.1016/j.febslet.2015.10.004. Epub 2015 Oct 10. Review. PubMed PMID: 26459029.

288: Gudo ES, Silva-Barbosa SD, Linhares-Lacerda L, Ribeiro-Alves M, Real SC, Bou-Habib DC, Savino W. HAM/TSP-derived HTLV-1-infected T cell lines promote morphological and functional changes in human astrocytes cell lines: possible role in the enhanced T cells recruitment into Central Nervous System. Virol J. 2015 Oct 12;12:165. doi: 10.1186/s12985-015-0398-x. PubMed PMID: 26458945.

287: Gottfried C, Bambini-Junior V, Francis F, Riesgo R, Savino W. The Impact of Neuroimmune Alterations in Autism Spectrum Disorder. Front Psychiatry. 2015 Sep 9;6:121. doi: 10.3389/fpsyt.2015.00121. eCollection 2015. Review. PubMed PMID: 26441683.

286: Savino W, Mendes-da-Cruz DA, Lepletier A, Dardenne M. Hormonal control of T-cell development in health and disease. Nat Rev Endocrinol. 2016 Feb;12(2):77-89. doi: 10.1038/nrendo.2015.168. Epub 2015 Oct 6. Review. PubMed PMID: 26437623.

285: Linhares-Lacerda L, Palu CC, Ribeiro-Alves M, Paredes BD, Morrot A, Garcia-Silva MR, Cayota A, Savino W. Differential Expression of microRNAs in Thymic Epithelial Cells from Trypanosoma cruzi Acutely Infected Mice: Putative Role in Thymic Atrophy. Front Immunol. 2015 Aug 21;6:428. doi: 10.3389/fimmu.2015.00428. eCollection 2015. PubMed PMID: 26347748.

284: Matavele Chissumba R, Silva-Barbosa SD, Augusto Â, Maueia C, Mabunda N, Gudo ES Jr, Bhatt N, Jani I, Savino W. CD4(+)CD25(High) Treg cells in HIV/HTLV co-infected patients with neuropathy: high expression of Alpha4 integrin and lower expression of Foxp3 transcription factor. BMC Immunol. 2015 Sep 2;16:52. doi: 10.1186/s12865-015-0116-x. PubMed PMID: 26329520.

283: Barreto-de-Albuquerque J, Silva-dos-Santos D, Pérez AR, Berbert LR, de Santana-van-Vliet E, Farias-de-Oliveira DA, Moreira OC, Roggero E, de Carvalho-Pinto CE, Jurberg J, Cotta-de-Almeida V, Bottasso O, Savino W, de Meis J. Trypanosoma cruzi Infection through the Oral Route Promotes a Severe Infection in Mice: New Disease Form from an Old Infection? PLoS Negl Trop Dis. 2015 Jun 19;9(6):e0003849. doi: 10.1371/journal.pntd.0003849. eCollection 2015 Jun. PubMed PMID: 26090667.

282: Bonomo A, Savino W. T cell activation in utero: self or non-self discrimination. Ann Transl Med. 2015 Apr;3(5):65. doi: 10.3978/j.issn.2305-5839.2015.02.31. PubMed PMID: 25992364.

281: Alfaro D, García-Ceca J, Farias-de-Oliveira DA, Terra-Granado E, Montero-Herradón S, Cotta-de-Almeida V, Savino W, Zapata A. EphB2 and EphB3 play an important role in the lymphoid seeding of murine adult thymus. J Leukoc Biol. 2015 Dec;98(6):883-96. doi: 10.1189/jlb.1HI1114-568R. Epub 2015 Mar 25. PubMed PMID: 25810451.

280: Lepletier A, Chidgey AP, Savino W. Perspectives for Improvement of the Thymic Microenvironment through Manipulation of Thymic Epithelial Cells: A Mini-Review. Gerontology. 2015;61(6):504-14. doi: 10.1159/000375160. Epub 2015 Mar 10. Review. PubMed PMID: 25765703.

279: Silva-Filho JL, Souza MC, Henriques MG, Morrot A, Savino W, Caruso-Neves C, Pinheiro AA. Renin-angiotensin system contributes to naive T-cell migration in vivo. Arch Biochem Biophys. 2015 May 1;573:1-13. doi: 10.1016/j.abb.2015.02.035. Epub 2015 Mar 6. PubMed PMID: 25752953.

278: Silva JH, Calmon-Hamaty F, Savino W, Hahne M, Caffarena ER. In Silico Identification of Novel APRIL Peptide Antagonists and Binding Insights by Molecular Modeling and Immunosorbent Assays. Protein Pept Lett. 2015;22(5):432-42. PubMed PMID: 25731591.

277: Portilho DM, Alves MR, Kratassiouk G, Roche S, Magdinier F, de Santana EC, Polesskaya A, Harel-Bellan A, Mouly V, Savino W, Butler-Browne G, Dumonceaux J. miRNA expression in control and FSHD fetal human muscle biopsies. PLoS One. 2015 Feb 18;10(2):e0116853. doi: 10.1371/journal.pone.0116853. eCollection 2015.PubMed PMID: 25692472.

276: Lepletier A, de Almeida L, Santos L, da Silva Sampaio L, Paredes B, González FB, Freire-de-Lima CG, Beloscar J, Bottasso O, Einicker-Lamas M, Pérez AR, Savino W, Morrot A. Early double-negative thymocyte export in *Trypanosoma cruzi* infection is restricted by sphingosine receptors and associated with human Chagas disease. PLoS Negl Trop Dis. 2014 Oct 16;8(10):e3203. doi: 10.1371/journal.pntd.0003203. eCollection 2014 Oct. PubMed PMID

275: Barthélémy I, Pinto-Mariz F, Yada E, Desquilbet L, Savino W, Silva-Barbosa SD, Faussat AM, Mouly V, Voit T, Blot S, Butler-Browne G. Predictive markers of clinical outcome in the GRMD dog model of Duchenne muscular dystrophy. Dis Model Mech. 2014 Nov;7(11):1253-61. doi: 10.1242/dmm.016014. Epub 2014 Sep 26. PubMed PMID: 25261568.

274: de Cuba MB, Machado MP, Farnesi TS, Alves AC, Martins LA, de Oliveira LF, Capitelli CS, Leite CF, Silva MV, Machado JR, Kappel HB, de Campos HS, Paiva L, Gomes NL, Faleiros AC, Britto CF, Savino W, Moreira OC, Rodrigues V Jr, Montano N, Lages-Silva E, Ramirez LE, da Silva VJ. Effects of cholinergic stimulation with pyridostigmine bromide on chronic chagasic cardiomyopathic mice. Mediators Inflamm. 2014;2014:475946. doi: 10.1155/2014/475946. Epub 2014 Aug 24. PubMed PMID: 25221388.

273: Mendes-da-Cruz DA, Brignier AC, Asnafi V, Baleydier F, Messias CV, Lepelletier Y, Bedjaoui N, Renand A, Smaniotto S, Canioni D, Milpied P, Balabanian K, Bousso P, Leprêtre S, Bertrand Y, Dombret H, Ifrah N, Dardenne M, Macintyre E, Savino W, Hermine O. Semaphorin 3F and neuropilin-2 control the migration of human T-cell precursors. PLoS One. 2014 Jul 28;9(7):e103405. doi: 10.1371/journal.pone.0103405. eCollection 2014. PubMed PMID: 25068647.

272: Golbert DC, Correa-de-Santana E, Ribeiro-Alves M, de Vasconcelos AT, Savino W. ITGA6 gene silencing by RNA interference modulates the expression of a large number of cell migration-related genes in human thymic epithelial cells. BMC Genomics. 2013;14 Suppl 6:S3. doi: 10.1186/1471-2164-14-S6-S3. Epub 2013 Oct 25. PubMed PMID: 24564203.

271: Lepletier A, de Carvalho VF, Rodrigues e Silva PM, Villar S, Pérez AR, Savino W, Morrot A. *Trypanosoma cruzi* disrupts thymic homeostasis by altering intrathymic and systemic stress-related endocrine circuitries. PLoS Negl Trop Dis. 2013 Nov 14;7(11):e2470. doi: 10.1371/journal.pntd.0002470. eCollection 2013 Nov. PubMed PMID: 24324845.

270: Farias-de-Oliveira DA, Cotta-de-Almeida V, Villa-Verde DM, Riederer I, de Meis J, Savino W. Fibronectin modulates thymocyte-thymic epithelial cell interactions following *Trypanosoma cruzi* infection. Mem Inst Oswaldo Cruz. 2013 Nov;108(7):825-31. doi: 10.1590/0074-0276130071. PubMed PMID: 24271041.

269: Golbert DC, Santana-van-Vliet E, Mundstein AS, Calfo V, Savino W, de Vasconcelos AT. Laminin-database v.2.0: an update on laminins in health and neuromuscular disorders. Nucleic Acids Res. 2014 Jan;42(Database issue):D426-9. doi: 10.1093/nar/gkt901. Epub 2013 Oct 7. PubMed PMID: 24106090.

268: Smaniotto S, Schneider E, Goudin N, Bricard-Rignault R, Machavoine F, Dardenne M, Dy M, Savino W. Mouse basophils reside in extracellular matrix-enriched bone marrow niches which control their motility. PLoS One. 2013 Sep 27;8(9):e70292. doi: 10.1371/journal.pone.0070292. eCollection 2013. PubMed PMID: 24086246.

267: de Meis J, Barreto de Albuquerque J, Silva Dos Santos D, Farias-de-Oliveira DA, Berbert LR, Cotta-de-Almeida V, Savino W. Trypanosoma cruzi Entrance through Systemic or Mucosal Infection Sites Differentially Modulates Regional Immune Response Following Acute Infection in Mice. Front Immunol. 2013 Jul 26;4:216. doi: 10.3389/fimmu.2013.00216. eCollection 2013. PubMed PMID: 23898334.

266: Temerozo JR, Joaquim R, Regis EG, Savino W, Bou-Habib DC. Macrophage Resistance to HIV-1 Infection Is Enhanced by the Neuropeptides VIP and PACAP. PLoS One. 2013 Jun 20;8(6):e67701. doi: 10.1371/journal.pone.0067701. Print 2013. PubMed PMID: 23818986.

265: de Meis J, Savino W. Mature peripheral T cells are important to preserve thymus function and selection of thymocytes during Mycobacterium tuberculosis infection. Immunotherapy. 2013 Jun;5(6):573-6. doi: 10.2217/imt.13.41. PubMed PMID: 23725281.

264: Villar SR, Ronco MT, Fernández Bussy R, Roggero E, Lepletier A, Manarin R, Savino W, Pérez AR, Bottasso O. Tumor necrosis factor-α regulates glucocorticoid synthesis in the adrenal glands of Trypanosoma cruzi acutely-infected mice. The role of TNF-R1. PLoS One. 2013 May 22;8(5):e63814. doi: 10.1371/journal.pone.0063814. Print 2013. PubMed PMID: 23717489.

263: da Silva SV, Salama C, Renovato-Martins M, Helal-Neto E, Citelli M, Savino W, Barja-Fidalgo C. Increased leptin response and inhibition of apoptosis in thymocytes of young rats offspring from protein deprived dams during lactation. PLoS One. 2013 May 10;8(5):e64220. doi: 10.1371/journal.pone.0064220. Print 2013. PubMed PMID: 23675529.

262: Silva-Filho JL, Souza MC, Ferreira-Dasilva CT, Silva LS, Costa MF, Padua TA, Henriques Md, Morrot A, Savino W, Caruso-Neves C, Pinheiro AA. Angiotensin II is a new component involved in splenic T lymphocyte responses during Plasmodium berghei ANKA infection. PLoS One. 2013 Apr 30;8(4):e62999. doi: 10.1371/journal.pone.0062999. Print 2013. PubMed PMID: 23646169.

261: Nardy AF, Luiz da Silva Filho J, Pérez AR, de Meis J, Farias-de-Oliveira DA, Penha L, de Araújo Oliveira I, Dias WB, Todeschini AR, Freire-de-Lima CG, Bellio M, Caruso-Neves C, Pinheiro AA, Takiya CM, Bottasso O, Savino W, Morrot A. Trans-sialidase from Trypanosoma cruzi enhances the adhesion properties and fibronectin-driven migration of thymocytes. Microbes Infect. 2013 May;15(5):365-74. doi: 10.1016/j.micinf.2013.02.003. Epub 2013 Feb 24. PubMed PMID: 23481510.

260: Perone MJ, Velázquez G, Rojas de Arias A, Chamorro G, Coluchi N, Pirmez C, Savino W, Barbeito L, Arzt E. [First South american network of biomedical research. Education and biotechnology for health]. Medicina (B Aires). 2013;73(1):75-7. Spanish. PubMed PMID: 23335711.

259: Farias-de-Oliveira DA, Villa-Verde DM, Nunes Panzenhagen PH, Silva dos Santos D, Berbert LR, Savino W, de Meis J. Caspase-8 and caspase-9 mediate thymocyte apoptosis in Trypanosoma cruzi acutely infected mice. J Leukoc Biol. 2013 Feb;93(2):227-34. doi: 10.1189/jlb.1211589. Epub 2012 Nov 16. PubMed PMID: 23159925.

258: Gudo ES Jr, Bhatt NB, Augusto O, Semá C, Savino W, Ferreira OC Jr, Jani IV. Performance of absolute CD4+ count in predicting co-infection with human T-lymphotropic virus type 1 in antiretroviral-naive HIV-infected patients. Int J STD AIDS. 2012 Oct;23(10):717-23. doi: 10.1258/ijsa.2012.011446. PubMed PMID:23104746.

257: Bencze M, Negroni E, Vallese D, Yacoub-Youssef H, Chaouch S, Wolff A, Aamiri A, Di Santo JP, Chazaud B, Butler-Browne G, Savino W, Mouly V, Riederer I. Proinflammatory macrophages enhance the regenerative capacity of human myoblasts by modifying their kinetics of proliferation and differentiation. Mol Ther. 2012 Nov;20(11):2168-79. doi: 10.1038/mt.2012.189. Epub 2012 Oct 16. PubMed PMID: 23070116.

256: Portilho DM, Soares CP, Morrot A, Thiago LS, Butler-Browne G, Savino W, Costa ML, Mermelstein C. Cholesterol depletion by methyl-β-cyclodextrin enhances cell proliferation and increases the number of desmin-positive cells in myoblast cultures. Eur J Pharmacol. 2012 Nov 5;694(1-3):1-12. doi: 10.1016/j.ejphar.2012.07.035. Epub 2012 Aug 19. PubMed PMID: 22921450.

255: Lepletier A, de Frias Carvalho V, Morrot A, Savino W. Thymic atrophy in acute experimental Chagas disease is associated with an imbalance of stress hormones. Ann N Y Acad Sci. 2012 Jul;1262:45-50. doi: 10.1111/j.1749-6632.2012.06601.x. Review. PubMed PMID: 22823434.

254: Pérez AR, Morrot A, Berbert LR, Terra-Granado E, Savino W. Extrathymic CD4+CD8+ lymphocytes in Chagas disease: possible relationship with an immunoendocrine imbalance. Ann N Y Acad Sci. 2012 Jul;1262:27-36. doi: 10.1111/j.1749-6632.2012.06627.x. Review. PubMed PMID: 22823432.

253: Savino W, Smaniotto S, Mendes-da-Cruz DA, Dardenne M. Growth hormone modulates migration of thymocytes and peripheral T cells. Ann N Y Acad Sci. 2012 Jul;1261:49-54. doi: 10.1111/j.1749-6632.2012.06637.x. PubMed PMID: 22823393.

252: Mendes-da-Cruz DA, Stimamiglio MA, Muñoz JJ, Alfaro D, Terra-Granado E, Garcia-Ceca J, Alonso-Colmenar LM, Savino W, Zapata AG. Developing T-cell migration: role of semaphorins and ephrins. FASEB J. 2012 Nov;26(11):4390-9. doi: 10.1096/fj.11-202952. Epub 2012 Jul 19. Review. PubMed PMID: 22815386.

251: Machado MP, Rocha AM, de Oliveira LF, de Cuba MB, de Oliveira Loss I, Castellano LR, Silva MV, Machado JR, Nascentes GA, Paiva LH, Savino W, Junior VR, Brum PC, Prado VF, Prado MA, Silva EL, Montano N, Ramirez LE, Dias da Silva VJ. Autonomic nervous system modulation affects the inflammatory immune response in mice with acute Chagas disease. Exp Physiol. 2012 Nov;97(11):1186-202. doi: 10.1113/expphysiol.2012.066431. Epub 2012 Jun 15. PubMed PMID: 22707503.

250: de Meis J, Aurélio Farias-de-Oliveira D, Nunes Panzenhagen PH, Maran N, Villa-Verde DM, Morrot A, Savino W. Thymus atrophy and double-positive escape are common features in infectious diseases. J Parasitol Res. 2012;2012:574020. doi:10.1155/2012/574020. Epub 2012 Feb 1. PubMed PMID: 22518275.

249: Morrot A, Barreto de Albuquerque J, Berbert LR, de Carvalho Pinto CE, de Meis J, Savino W. Dynamics of Lymphocyte Populations during Trypanosoma cruzi Infection: From Thymocyte Depletion to Differential Cell Expansion/Contraction in Peripheral Lymphoid Organs. J Trop Med. 2012;2012:747185. doi: 10.1155/2012/747185. Epub 2012 Feb 12. PubMed PMID: 22505943.

248: Pérez AR, Berbert LR, Lepletier A, Revelli S, Bottasso O, Silva-Barbosa SD, Savino W. TNF-α is involved in the abnormal thymocyte migration during experimental Trypanosoma cruzi infection and favors the export of immature cells. PLoS One. 2012;7(3):e34360. doi: 10.1371/journal.pone.0034360. Epub 2012 Mar 26. PubMed PMID: 22461911.

247: Mendes-da-Cruz DA, Linhares-Lacerda L, Smaniotto S, Dardenne M, Savino W. Semaphorins and neuropilins: new players in the neuroendocrine control of the intrathymic T-cell migration in humans. Exp Physiol. 2012 Nov;97(11):1146-50. doi: 10.1113/expphysiol.2011.061515. Epub 2012 Feb 10. Review. PubMed PMID: 22327328.

246: Moreira-Ramos K, Castro FM, Linhares-Lacerda L, Savino W. Can thymic epithelial cells be infected by human T-lymphotropic virus type 1? Mem Inst Oswaldo Cruz. 2011 Sep;106(6):759-62. PubMed PMID: 22012233.

245: Pérez AR, Silva-Barbosa SD, Roggero E, Calmon-Hamaty F, Villar SR, Gutierrez FR, Silva JS, Savino W, Bottasso O. Immunoendocrinology of the thymus in Chagas disease. Neuroimmunomodulation. 2011;18(5):328-38. doi: 10.1159/000329494. Epub 2011 Sep 22. PubMed PMID: 21952685.

244: Smaniotto S, Martins-Neto AA, Dardenne M, Savino W. Growth hormone is a modulator of lymphocyte migration. Neuroimmunomodulation. 2011;18(5):309-13. doi: 10.1159/000329497. Epub 2011 Sep 22. Review. PubMed PMID: 21952682.

243: Savino W, Dardenne M. Neuroendocrine interactions in the thymus: from physiology to therapy. Neuroimmunomodulation. 2011;18(5):263. doi: 10.1159/000330232. Epub 2011 Sep 22. PubMed PMID: 21952677.

242: Riederer I, Negroni E, Bencze M, Wolff A, Aamiri A, Di Santo JP, Silva-Barbosa SD, Butler-Browne G, Savino W, Mouly V. Slowing down differentiation of engrafted human myoblasts into immunodeficient mice correlates with increased proliferation and migration. Mol Ther. 2012 Jan;20(1):146-54. doi: 10.1038/mt.2011.193. Epub 2011 Sep 20. PubMed PMID: 21934656.

241: Garcia F, Lepelletier Y, Smaniotto S, Hadj-Slimane R, Dardenne M, Hermine O, Savino W. Inhibitory effect of semaphorin-3A, a known axon guidance molecule, in the human thymocyte migration induced by CXCL12. J Leukoc Biol. 2012 Jan;91(1):7-13. doi: 10.1189/jlb.0111031. Epub 2011 Aug 30. PubMed PMID: 21878545.

240: Morrot A, Terra-Granado E, Pérez AR, Silva-Barbosa SD, Milićević NM, Farias-de-Oliveira DA, Berbert LR, De Meis J, Takiya CM, Beloscar J, Wang X, Kont V, Peterson P, Bottasso O, Savino W. Chagasic thymic atrophy does not affect negative selection but results in the export of activated CD4+CD8+ T cells in severe forms of human disease. PLoS Negl Trop Dis. 2011 Aug;5(8):e1268. doi: 10.1371/journal.pntd.0001268. Epub 2011 Aug 16. PubMed PMID: 21858238.

239: Silva-Filho JL, Souza MC, Henriques Md, Morrot A, Savino W, Nunes MP, Caruso-Neves C, Pinheiro AA. AT1 receptor-mediated angiotensin II activation and chemotaxis of T lymphocytes. Mol Immunol. 2011 Sep;48(15-16):1835-43. doi: 10.1016/j.molimm.2011.05.008. Epub 2011 Jun 8. PubMed PMID: 21641648.

238: Pérez AR, Silva-Barbosa SD, Berbert LR, Revelli S, Beloscar J, Savino W, Bottasso O. Immunoneuroendocrine alterations in patients with progressive forms of chronic Chagas disease. J Neuroimmunol. 2011 Jun;235(1-2):84-90. doi: 10.1016/j.jneuroim.2011.03.010. Epub 2011 Apr 14. PubMed PMID: 21496931.

237: Linhares-Lacerda L, Ribeiro-Alves M, Nogueira AC, Mendes-da-Cruz DA, Magalhães DA, Dardenne M, Passos GA, Savino W. RNA interference-mediated knockdown of CD49e (α5 integrin chain) in human thymic epithelial cells modulates the expression of multiple genes and decreases thymocyte adhesion. BMC Genomics. 2010 Dec 22;11 Suppl 5:S2. doi: 10.1186/1471-2164-11-S5-S2. PubMed PMID: 21210968.

236: Golbert DC, Linhares-Lacerda L, Almeida LG, Correa-de-Santana E, de Oliveira AR, Mundstein AS, Savino W, de Vasconcelos AT. Laminin database: a tool to retrieve high-throughput and curated data for studies on laminins. Nucleic Acids Res. 2011 Jan;39(Database issue):D320-3. doi: 10.1093/nar/gkq1055. Epub 2010 Nov 17. PubMed PMID: 21087995; PubMed Central PMCID: PMC3013663.

235: Savino W, Dardenne M. Nutritional imbalances and infections affect the thymus: consequences on T-cell-mediated immune responses. Proc Nutr Soc. 2010 Nov;69(4):636-43. doi: 10.1017/S0029665110002545. Epub 2010 Sep 22. Review. PubMed PMID: 20860857.

234: Stimamiglio MA, Jiménez E, Silva-Barbosa SD, Alfaro D, García-Ceca JJ, Muñoz JJ, Cejalvo T, Savino W, Zapata A. EphB2-mediated interactions are essential for proper migration of T cell progenitors during fetal thymus colonization. J Leukoc Biol. 2010 Sep;88(3):483-94. doi: 10.1189/jlb.0210079. Epub 2010 May 26. PubMed PMID: 20504947.

233: Savino W, Dardenne M. Pleiotropic modulation of thymic functions by growth hormone: from physiology to therapy. Curr Opin Pharmacol. 2010 Aug;10(4):434-42. doi: 10.1016/j.coph.2010.04.002. Epub 2010 Apr 29. Review. PubMed PMID: 20434952.

232: Pinto-Mariz F, Carvalho LR, de Mello W, Araújo Ade Q, Ribeiro MG, Cunha Mdo C, Voit T, Butler-Browne G, Silva-Barbosa SD, Savino W. Differential integrin expression by T lymphocytes: potential role in DMD muscle damage. J Neuroimmunol. 2010 Jun;223(1-2):128-30. doi: 10.1016/j.jneuroim.2010.03.006. Epub 2010 Apr 10. PubMed PMID: 20382434.

231: Nagib PR, Gameiro J, Stivanin-Silva LG, de Arruda MS, Villa-Verde DM, Savino W, Verinaud L. Thymic microenvironmental alterations in experimentally induced diabetes. Immunobiology. 2010 Dec;215(12):971-9. doi: 10.1016/j.imbio.2010.02.001. Epub 2010 Feb 16. PubMed PMID: 20189263.

230: Savino W. Intrathymic T cell migration is a multivectorial process under a complex neuroendocrine control. Neuroimmunomodulation. 2010;17(3):142-5. doi: 10.1159/000258708. Epub 2010 Feb 4. Review. PubMed PMID: 20134187.

229: Nihei OK, Fonseca PC, Rubim NM, Bonavita AG, Lyra JS, Neves-dos-Santos S, de Carvalho AC, Spray DC, Savino W, Alves LA. Modulatory effects of cAMP and PKC activation on gap junctional intercellular communication among thymic epithelial cells. BMC Cell Biol. 2010 Jan 15;11:3. doi: 10.1186/1471-2121-11-3. PubMed PMID:20078861.

228: Gudo ES, Bhatt NB, Bila DR, Abreu CM, Tanuri A, Savino W, Silva-Barbosa SD, Jani IV. Co-infection by human immunodeficiency virus type 1 (HIV-1) and human T cell leukemia virus type 1 (HTLV-1): does immune activation lead to a faster progression to AIDS? BMC Infect Dis. 2009 Dec 22;9:211. doi: 10.1186/1471-2334-9-211. PubMed PMID: 20028500.

227: Souza-e-Silva H, Savino W, Feijóo RA, Vasconcelos AT. A cellular automata-based mathematical model for thymocyte development. PLoS One. 2009 Dec 9;4(12):e8233. doi: 10.1371/journal.pone.0008233. PubMed PMID: 20011042.

226: Smaniotto S, Mendes-da-Cruz DA, Carvalho-Pinto CE, Araujo LM, Dardenne M, Savino W. Combined role of extracellular matrix and chemokines on peripheral lymphocyte migration in growth hormone transgenic mice. Brain Behav Immun. 2010 Mar;24(3):451-61. doi: 10.1016/j.bbi.2009.11.014. Epub 2009 Dec 3. PubMed PMID: 19948213.

225: Gameiro J, Nagib PR, Andrade CF, Villa-Verde DM, Silva-Barbosa SD, Savino W, Costa FT, Verinaud L. Changes in cell migration-related molecules expressed by thymic microenvironment during experimental Plasmodium berghei infection: consequences on thymocyte development. Immunology. 2010 Feb;129(2):248-56. doi: 10.1111/j.1365-2567.2009.03177.x. Epub 2009 Sep 9. PubMed PMID: 19824923.

224: Macedo C, Evangelista AF, Magalhães DA, Fornari TA, Linhares LL, Junta CM, Silva GL, Sakamoto-Hojo ET, Donadi EA, Savino W, Passos GA. Evidence for a network transcriptional control of promiscuous gene expression in medullary thymic epithelial cells. Mol Immunol. 2009 Oct;46(16):3240-4. doi: 10.1016/j.molimm.2009.08.002. Epub 2009 Aug 31. PubMed PMID: 19720399.

223: de Meis J, Morrot A, Farias-de-Oliveira DA, Villa-Verde DM, Savino W. Differential regional immune response in Chagas disease. PLoS Negl Trop Dis. 2009 Jul 7;3(7):e417. doi: 10.1371/journal.pntd.0000417. Review. PubMed PMID: 19582140.

222: Corrêa-de-Santana E, Paez-Pereda M, Theodoropoulou M, Renner U, Stalla J, Stalla GK, Savino W. Modulation of growth hormone and prolactin secretion in Trypanosoma cruzi-infected mammosomatotrophic cells. Neuroimmunomodulation. 2009;16(3):208-12. doi: 10.1159/000205513. Epub 2009 Feb 27. PubMed PMID: 19246944.

221: Velloso LA, Savino W, Mansour E. Leptin action in the thymus. Ann N Y Acad Sci. 2009 Feb;1153:29-34. doi: 10.1111/j.1749-6632.2008.03973.x. Review. PubMed PMID: 19236325.

220: Mendes-da-Cruz DA, Lepelletier Y, Brignier AC, Smaniotto S, Renand A, Milpied P, Dardenne M, Hermine O, Savino W. Neuropilins, semaphorins, and their role in thymocyte development. Ann N Y Acad Sci. 2009 Feb;1153:20-8. doi: 10.1111/j.1749-6632.2008.03980.x. Review. PubMed PMID: 19236324.

219: Dardenne M, Smaniotto S, de Mello-Coelho V, Villa-Verde DM, Savino W. Growth hormone modulates migration of developing T cells. Ann N Y Acad Sci. 2009Feb;1153:1-5. doi: 10.1111/j.1749- 6632.2008.03977.x. Review. PubMed PMID: 19236321.

218: Savino W, Silva PO, Besedovsky H. Network of bidirectional interactions between the neuroendocrine and immune systems. Preface. Ann N Y Acad Sci. 2009 ;1153:xi. doi: 10.1111/j.1749-6632.2009.04479.x. PubMed PMID: 19236320.

217: Pérez AR, Bottasso O, Savino W. The impact of infectious diseases upon neuroendocrine circuits. Neuroimmunomodulation. 2009;16(2):96-105. doi: 10.1159/000180264. Epub 2009 Feb 11. Review. PubMed PMID: 19212129.

216: Savino W, Jani IV, Fumane J, Buss PM, Leal Mdo C. Local generation of high-quality human resources for health research. Bull World Health Organ. 2008 Dec;86(12):910, A. PubMed PMID: 19142285.

215: Pfister G, Savino W. Can the immune system still be efficient in the elderly? An immunological and immunoendocrine therapeutic perspective. Neuroimmunomodulation. 2008;15(4-6):351-64. doi: 10.1159/000156477. Epub 2008 Nov 26. Review. PubMed PMID: 19047811.

214: Machado CM, Ikemori RY, Zorzeto TQ, Nogueira AC, Barbosa SD, Savino W, Schenka AA, Vassallo J, Heinrich JK, Boetcher-Luiz F, Verinaud L. Characterization of cells recovered from the xenotransplanted NG97 human-derived glioma cell line subcultured in a long-term in vitro. BMC Cancer. 2008 Oct 8;8:291. doi: 10.1186/1471-2407-8-291. PubMed PMID: 18840301.

213: Rabinovich GA, Kalergis AM, Zwirner NW, Savino W. Immunology south of the equator in the Americas. Nat Immunol. 2008 Oct;9(10):1087-90. doi: 10.1038/ni1008-1087. Review. PubMed PMID: 18800156.

212: Stimamiglio MA, Silva-Barbosa SD, Domingues MA, Trentin AG, Alvarez-Silva M, Savino W. Is there a role for fibronectin upon true histiocytic lymphoma progression? Int J Oncol. 2008 Sep;33(3):517-24. PubMed PMID: 18695881.

211: Savino W. Neuroimmunomodulatory interactions in the genesis and outcome of autoimmune disease. Neuroimmunomodulation. 2008;15(1):5-6. doi: 10.1159/000135618. Epub 2008 Jul 29. PubMed PMID: 18667794.

210: Ocampo JS, de Brito JM, Corrêa-de-Santana E, Borojevic R, Villa-Verde DM, Savino W. Laminin-211 controls thymocyte--thymic epithelial cell interactions. Cell Immunol. 2008;254(1):1-9. doi: 10.1016/j.cellimm.2008.06.005. Epub 2008 Jul 21. PubMed PMID: 18644586.

209: de F Carvalho V, Campos LV, Farias-Filho FA, Florim LT, Barreto EO, Pirmez C, Savino W, Martins MA, e Silva PM. Suppression of allergic inflammatory response in the skin of alloxan-diabetic rats: relationship with reduced local mast cell numbers. Int Arch Allergy Immunol. 2008;147(3):246-54. doi: 10.1159/000142049. Epub 2008 Jul 2. PubMed PMID: 18594156.

208: Mendes-da-Cruz DA, Smaniotto S, Keller AC, Dardenne M, Savino W. Multivectorial abnormal cell migration in the NOD mouse thymus. J Immunol. 2008 Apr 1;180(7):4639-47. PubMed PMID: 18354187.

207: Silva-Barbosa SD, Butler-Browne GS, de Mello W, Riederer I, Di Santo JP, Savino W, Mouly V. Human myoblast engraftment is improved in laminin-enriched microenvironment. Transplantation. 2008 Feb 27;85(4):566-75. doi: 10.1097/TP.0b013e31815fee50. PubMed PMID: 18347536.

206: Terra-Granado E, Berbert LR, de Meis J, Nomizo R, Martins VR, Savino W, Silva-Barbosa SD. Is there a role for cellular prion protein in intrathymic T cell differentiation and migration? Neuroimmunomodulation. 2007;14(3-4):213-9. Epub 2007 Dec 5. PubMed PMID: 18073517.

205: Oliveira-Silva P, Jurgilas PB, Trindade P, Campello-Costa P, Perales J, Savino W, Serfaty CA. Matrix metalloproteinase-9 is involved in the development and plasticity of retinotectal projections in rats. Neuroimmunomodulation. 2007;14(3-4):144-9. Epub 2007 Dec 5. PubMed PMID: 18073506.

204: Savino W, Dardenne M, Velloso LA, Dayse Silva-Barbosa S. The thymus is a common target in malnutrition and infection. Br J Nutr. 2007 Oct;98 Suppl 1:S11-6. Review. PubMed PMID: 17922946.

203: Savino W. Neuroendocrine control of T cell development in mammals: role of growth hormone in modulating thymocyte migration. Exp Physiol. 2007 Sep;92(5):813-7. Epub 2007 Aug 24. Review. PubMed PMID: 17720747.

202: Ribeiro-Carvalho MM, Lima-Quaresma KRF, Mouço T, Carvalho VF, Mello-Coelho V, Savino W. Triiodothyronine modulates thymocyte migration. Scand J Immunol. 2007 Jul;66(1):17-25. doi: 10.1111/j.1365-3083.2007.01928.x. PubMed PMID: 17587342.

201: Ribeiro-Carvalho MM, Smaniotto S, Neves-Dos-Santos S, Mouço T, Savino W, Mello-Coelho V. Triiodothyronine modulates differential homing of recent thymic emigrants to peripheral lymphoid organs. Scand J Immunol. 2007 Jul;66(1):8-16. doi: 10.1111/j.1365-3083.2007.01910.x. PubMed PMID: 17587341.

200: Lepelletier Y, Smaniotto S, Hadj-Slimane R, Villa-Verde DM, Nogueira AC, Dardenne M, Hermine O, Savino W. Control of human thymocyte migration by Neuropilin-1/Semaphorin-3A-mediated interactions. Proc Natl Acad Sci U S A. 2007 Mar 27;104(13):5545-50. Epub 2007 Mar 16. PubMed PMID: 17369353.

199: Savino W, Villa-Verde DM, Mendes-da-Cruz DA, Silva-Monteiro E, Perez AR, Aoki Mdel P, Bottasso O, Guiñazú N, Silva-Barbosa SD, Gea S. Cytokines and cell adhesion receptors in the regulation of immunity to Trypanosoma cruzi. Cytokine Growth Factor Rev. 2007 Feb-Apr;18(1-2):107-24. Epub 2007 Mar 6. Review. PubMed PMID: 17339126.

198: Silva-Monteiro E, Reis Lorenzato L, Kenji Nihei O, Junqueira M, Rabinovich GA, Hsu DK, Liu FT, Savino W, Chammas R, Villa-Verde DM. Altered expression of galectin-3 induces cortical thymocyte depletion and premature exit of immature thymocytes during Trypanosoma cruzi infection. Am J Pathol. 2007 Feb;170(2):546-56. PubMed PMID: 17255323.

197: Corrêa-de-Santana E, Pinto-Mariz F, Savino W. Immunoneuroendocrine interactions in Chagas disease. Ann N Y Acad Sci. 2006 Nov;1088:274-83. Review. PubMed PMID: 17192573.

196: Savino W. The thymus is a common target organ in infectious diseases. PLoS Pathog. 2006 Jun;2(6):e62. Review. PubMed PMID: 16846255.

195: Fonseca PC, Nihei OK, Savino W, Spray DC, Alves LA. Flow cytometry analysis of gap junction-mediated cell-cell communication: advantages and pitfalls. Cytometry A. 2006 Jun;69(6):487-93. Review. PubMed PMID: 16646046.

194: Mendes-da-Cruz DA, Silva JS, Cotta-de-Almeida V, Savino W. Altered thymocyte migration during experimental acute Trypanosoma cruzi infection: combined role of fibronectin and the chemokines CXCL12 and CCL4. Eur J Immunol. 2006 Jun;36(6):1486-93. PubMed PMID: 16637021.

193: Corrêa-de-Santana E, Paez-Pereda M, Theodoropoulou M, Kenji Nihei O, Gruebler Y, Bozza M, Arzt E, Villa-Verde DM, Renner U, Stalla J, Stalla GK, Savino W. Hypothalamus-pituitary-adrenal axis during Trypanosoma cruzi acute infection in mice. J Neuroimmunol. 2006 Apr;173(1-2):12-22. Epub 2006 Feb 21. PubMed PMID: 16494952.

192: Savino W, Smaniotto S, Dardenne M. Hematopoiesis. Adv Exp Med Biol. 2005;567:167-85. Review. PubMed PMID: 16370140.

191: de Meis J, Mendes-da-Cruz DA, Farias-de-Oliveira DA, Corrêa-de-Santana E, Pinto-Mariz F, Cotta-de-Almeida V, Bonomo A, Savino W. Atrophy of mesenteric lymph nodes in experimental Chagas' disease: differential role of Fas/Fas-L and TNFRI/TNF pathways. Microbes Infect. 2006 Jan;8(1):221-31. Epub 2005 Sep 15. PubMed PMID: 16239119.

190: Barreto EO, Riederer I, Arantes AC, Carvalho VF, Farias-Filho FA, Cordeiro RS, Martins MA, Savino W, e Silva PM. Thymus involution in alloxan diabetes: analysis of mast cells. Mem Inst Oswaldo Cruz. 2005 Mar;100 Suppl 1:127-30. Epub 2005 Jun 14. PubMed PMID: 15962111.

189: Smaniotto S, de Mello-Coelho V, Villa-Verde DM, Pléau JM, Postel-Vinay MC, Dardenne M, Savino W. Growth hormone modulates thymocyte development in vivo through a combined action of laminin and CXC chemokine ligand 12. Endocrinology. 2005 Jul;146(7):3005-17. Epub 2005 Mar 31. PubMed PMID: 15802502.

188: Savino W, Cotta-de-Almeida V, van Buul-Offers SC, Koster JG, Dardenne M. Abnormal thymic microenvironment in insulin-like growth factor-II transgenic mice. Neuroimmunomodulation. 2005;12(2):100-12. PubMed PMID: 15785112.

185: Geutskens SB, Nikolic T, Dardenne M, Leenen PJ, Savino W. Defective up-regulation of CD49d in final maturation of NOD mouse macrophages. Eur J Immunol. 2004 Dec;34(12):3465-76. PubMed PMID: 15517611.

185: Planelles L, Carvalho-Pinto CE, Hardenberg G, Smaniotto S, Savino W, Gómez-Caro R, Alvarez-Mon M, de Jong J, Eldering E, Martínez-A C, Medema JP, Hahne M. APRIL promotes B-1 cell-associated neoplasm. Cancer Cell. 2004 Oct;6(4):399-408. PubMed PMID: 15488762.

185: Geutskens SB, Homo-Delarche F, Pleau JM, Durant S, Drexhage HA, Savino W. Extracellular matrix distribution and islet morphology in the early postnatal pancreas: anomalies in the non-obese diabetic mouse. Cell Tissue Res. 2004 Dec;318(3):579-89. Epub 2004 Oct 5. PubMed PMID: 15480796.

184: Ayres-Martins S, Lannes-Vieira J, Farias-De-Oliveira DA, Brito JM, Villa-Verde DM, Savino W. Phagocytic cells of the thymic reticulum interact with thymocytes via extracellular matrix ligands and receptors. Cell Immunol. 2004 May;229(1):21-30. PubMed PMID: 15331325.

183: Smaniotto S, Ribeiro-Carvalho MM, Dardenne M, Savino W, de Mello-Coelho V. Growth hormone stimulates the selective trafficking of thymic CD4+CD8- emigrants to peripheral lymphoid organs. Neuroimmunomodulation. 2004;11(5):299-306. PubMed PMID: 15316240.

182: Geutskens SB, Mendes-da-Cruz DA, Dardenne M, Savino W. Fibronectin receptor defects in NOD mouse leucocytes: possible consequences for type 1 diabetes. Scand J Immunol. 2004 Jul-Aug;60(1-2):30-8. Review. PubMed PMID: 15238071.

181: Fonseca PC, Nihei OK, Urban-Maldonado M, Abreu S, de Carvalho AC, Spray DC, Savino W, Alves LA. Characterization of connexin 30.3 and 43 in thymocytes. Immunol Lett. 2004 Jun 15;94(1-2):65-75. Erratum in: Immunol Lett. 2005 Apr 15;98(1):173-5. PubMed PMID: 15234537.

180: Henriques-Pons A, DeMeis J, Cotta-De-Almeida V, Savino W, Araújo-Jorge TC. Fas and perforin are not required for thymus atrophy induced by Trypanosoma cruzi infection. Exp Parasitol. 2004 May-Jun;107(1-2):1-4. PubMed PMID: 15208031.

179: Cotta-de-Almeida V, Villa-Verde DM, Lepault F, Pléau JM, Dardenne M, Savino W. Impaired migration of NOD mouse thymocytes: a fibronectin receptor-related defect. Eur J Immunol. 2004 Jun;34(6):1578-87. PubMed PMID: 15162427.

178: Savino W, Mendes-Da-Cruz DA, Smaniotto S, Silva-Monteiro E, Villa-Verde DM. Molecular mechanisms governing thymocyte migration: combined role of chemokines and extracellular matrix. J Leukoc Biol. 2004 Jun;75(6):951-61. Epub 2004 Mar 12. Review. PubMed PMID: 15020651.

177: Contreiras EC, Lenzi HL, Meirelles MN, Caputo LF, Calado TJ, Villa-Verde DM, Savino W. The equine thymus microenvironment: a morphological and immunohistochemical analysis. Dev Comp Immunol. 2004 Mar;28(3):251-64. PubMed PMID: 14642891.

176: Cotta-de-Almeida V, Bonomo A, Mendes-da-Cruz DA, Riederer I, De Meis J, Lima-Quaresma KR, Vieira-de-Abreu A, Villa-Verde DM, Savino W. Trypanosoma cruzi infection modulates intrathymic contents of extracellular matrix ligands and receptors and alters thymocyte migration. Eur J Immunol. 2003 Sep;33(9):2439-48. PubMed PMID: 12938220.

175: Mendes-da-Cruz DA, de Meis J, Cotta-de-Almeida V, Savino W. Experimental Trypanosoma cruzi infection alters the shaping of the central and peripheral T-cell repertoire. Microbes Infect. 2003 Aug;5(10):825-32. PubMed PMID: 12919850.

174: Savino W, Ayres Martins S, Neves-dos-Santos S, Smaniotto S, Ocampo JS, Mendes-da-Cruz DA, Terra-Granado E, Kusmenok O, Villa-Verde DM. Thymocyte migration: an affair of multiple cellular interactions? Braz J Med Biol Res. 2003 Aug;36(8):1015-25. Epub 2003 Jul 23. PubMed PMID: 12886455.

173: Nihei OK, Campos de Carvalho AC, Spray DC, Savino W, Alves LA. A novel form of cellular communication among thymic epithelial cells: intercellular calcium wave propagation. Am J Physiol Cell Physiol. 2003 Nov;285(5):C1304-13. Epub 2003 Jul 23. PubMed PMID: 12878492.

172: Savino W, Smaniotto S, Binart N, Postel-Vinay MC, Dardenne M. In vivo effects of growth hormone on thymic cells. Ann N Y Acad Sci. 2003 May;992:179-85. Review. PubMed PMID: 12794057.

171: Abrantes EF, Pires EG, Carvalho AF, Costa FF, Savino W, Reis LF. Identification, structural characterization, and tissue distribution of Tsg-5: a new TNF-stimulated gene. Genes Immun. 2003 Jun;4(4):298-311. PubMed PMID: 12761567.

170: Kuzmenok O, Potapnev M, Potapova S, Smolnikova V, Rzheutsky V, Yarilin AA, Savino W, Belyakov IM. Late effects of the Chernobyl radiation accident on T cell-mediated immunity in cleanup workers. Radiat Res. 2003 Jan;159(1):109-16. PubMed PMID: 12492374.

169: Riederer I, Silva-Barbosa SD, Rodrigues ML, Savino W. Local antilaminin antibody treatment alters the rejection pattern of murine cardiac allografts: correlation between cellular infiltration and extracellular matrix. Transplantation. 2002 Dec 15;74(11):1515-22. PubMed PMID: 12490783.

168: Ribeiro-Carvalho MM, Farias-de-Oliveira DA, Villa-Verde DM, Savino W. Triiodothyronine modulates extracellular matrix-mediated interactions between thymocytes and thymic microenvironmental cells. Neuroimmunomodulation. 2002-2003;10(3):142-52. PubMed PMID: 12481154.

167: Lagrota-Candido J, Vasconcellos R, Cavalcanti M, Bozza M, Savino W, Quirico-Santos T. Resolution of skeletal muscle inflammation in mdx dystrophic mouse is accompanied by increased immunoglobulin and interferon-gamma production. Int J Exp Pathol. 2002 Jun;83(3):121-32. PubMed PMID: 12383191.

166: Savino W. The thymus gland is a target in malnutrition. Eur J Clin Nutr. 2002 Aug;56 Suppl 3:S46-9. Review. PubMed PMID: 12142962.

165: Savino W, Mendes-da-Cruz DA, Silva JS, Dardenne M, Cotta-de-Almeida V. Intrathymic T-cell migration: a combinatorial interplay of extracellular matrix and chemokines? Trends Immunol. 2002 Jun;23(6):305-13. Review. PubMed PMID: 12072370.

164: Riederer I, Silva-Barbosa SD, Savino W. Allogeneic heart graft rejection in mice: correlation between mononuclear cell infiltration and extracellular matrix deposition. Transplant Proc. 2002 Jun;34(4):1076-8. PubMed PMID: 12072281.

163: Villa-Verde DM, Silva-Monteiro E, Jasiulionis MG, Farias-De-Oliveira DA, Brentani RR, Savino W, Chammas R. Galectin-3 modulates carbohydrate-dependent thymocyte interactions with the thymic microenvironment. Eur J Immunol. 2002 May;32(5):1434-44. PubMed PMID: 11981832.

162: Savino W, Postel-Vinay MC, Smaniotto S, Dardenne M. The thymus gland: a target organ for growth hormone. Scand J Immunol. 2002 May;55(5):442-52. Review. PubMed PMID: 11975755.

161: de Mello Coelho V, Villa-Verde DM, Farias-de-Oliveira DA, de Brito JM, Dardenne M, Savino W. Functional insulin-like growth factor-1/insulin-like growth factor-1 receptor-mediated circuit in human and murine thymic epithelial cells. Neuroendocrinology. 2002 Feb;75(2):139-50. PubMed PMID: 11867942.

160: Silva-Barbosa SD, Riederer I, Savino W. Laminin-mediated interactions in heart graft rejection. Transplantation. 2001 Jul 15;72(1):172-3. PubMed PMID: 11468556.

159: Dalmau SR, Freitas CS, Savino W. The "early' CD4+CD8+ stage of thymocte differentiation hallmarks the end of a strong positive correlation between extracellular matrix receptor expression and protein tyrosine phosphorylation. Cell Mol Biol (Noisy-le-grand). 2001 Feb;47(1):75-86. PubMed PMID: 11292262.

158: Bisaggio RD, Nihei OK, Persechini PM, Savino W, Alves LA. Characterization of P2 receptors in thymic epithelial cells. Cell Mol Biol (Noisy-le-grand). 2001 Feb;47(1):19-31. PubMed PMID: 11292255.

157: Savino W, Smaniotto S, De Mello-Coelho V, Dardenne M. Is there a role for growth hormone upon intrathymic T-cell migration? Ann N Y Acad Sci. 2000;917:748-54. Review. PubMed PMID: 11268403.

156: Silva-Barbosa SD, Savino W. The involvement of laminin in anti-myocardial cell autoimmune response in murine Chagas disease. Dev Immunol. 2000;7(2-4):293-301. Review. PubMed PMID: 11097219.

1553: Savino W, Dalmau SR, Dealmeida VC. Role of extracellular matrix-mediated interactions in thymocyte migration. Dev Immunol. 2000;7(2-4):279-91. Review. PubMed PMID: 11097218.

154: Savino W, Dardenne M. Neuroendocrine control of thymus physiology. Endocr Rev. 2000 Aug;21(4):412-43. Review. PubMed PMID: 10950159.

153: Werneck CC, Cruz MS, Silva LC, Villa-Verde DM, Savino W, Mourão PA. Is there a glycosaminoglycan-related heterogeneity of the thymic epithelium? J Cell Physiol. 2000 Oct;185(1):68-79. PubMed PMID: 10942520.

152: Nihei OK, de Carvalho AC, Savino W, Alves LA. Pharmacologic properties of P(2Z)/P2X(7 )receptor characterized in murine dendritic cells: role on the induction of apoptosis. Blood. 2000 Aug 1;96(3):996-1005. PubMed PMID: 10910915.

151: Nihei OK, Savino W, Alves LA. Procedures to characterize and study P2Z/P2X7 purinoceptor: flow cytometry as a promising practical, reliable tool. Mem Inst Oswaldo Cruz. 2000 May-Jun;95(3):415-28. Review. PubMed PMID: 10800201.

150: Alves LA, Nihei OK, Fonseca PC, Carvalho AC, Savino W. Gap junction modulation by extracellular signaling molecules: the thymus model. Braz J Med Biol Res. 2000 Apr;33(4):457-65. Review. PubMed PMID: 10775311.

149: Lagrota-Cândido J, Canella I, Savino W, Quirico-Santos T. Expression of extracellular matrix ligands and receptors in the muscular tissue and draining lymph nodes of mdx dystrophic mice. Clin Immunol. 1999 Nov;93(2):143-51. PubMed PMID: 10527690.

148: Villa-Verde DM, Calado TC, Ocampo JS, Silva-Monteiro E, Savino W. The conveyor belt hypothesis for thymocyte migration: participation of adhesion and de-adhesion molecules. Braz J Med Biol Res. 1999 May;32(5):569-72. PubMed PMID: 10412568.

147: Cirne-Lima EO, Savino W. Automated technique to evaluate thymocyte adhesion to thymic epithelial cells. Tissue Cell. 1998 Dec;30(6):644-50. PubMed PMID: 10036789.

146: Dalmau SR, Freitas CS, Savino W. Upregulated expression of fibronectin receptors underlines the adhesive capability of thymocytes to thymic epithelial cells during the early stages of differentiation: lessons from sublethally irradiated mice. Blood. 1999 Feb 1;93(3):974-90. PubMed PMID: 9920847.

145: Werneck CC, Oliveira-Dos-Santos AJ, Silva LC, Villa-Verde DM, Savino W, Mourão PA. Thymic epithelial cells synthesize a heparan sulfate with a highly sulfated region. J Cell Physiol. 1999 Jan;178(1):51-62. PubMed PMID: 9886490.

144: Savino W, Arzt E, Dardenne M. Immunoneuroendocrine connectivity: the paradigm of the thymus-hypothalamus/pituitary axis. Neuroimmunomodulation. 1999 Jan-Apr;6(1-2):126-36. Review. PubMed PMID: 9876243.

143: Alves LA, Coutinho-Silva R, Savino W. Extracellular ATP: a further modulator in neuroendocrine control of the thymus. Neuroimmunomodulation. 1999 Jan-Apr;6(1-2):81-9. Review. PubMed PMID: 9876238.

142: Freitas CS, Dalmau SR, Kovary K, Savino W. Epidermal growth factor modulates fetal thymocyte growth and differentiation. Dev Immunol. 1998;5(3):169-82. PubMed PMID: 9851357; PubMed Central PMCID: PMC2275986.

141: De Mello-Coelho V, Savino W, Postel-Vinay MC, Dardenne M. Role of prolactin and growth hormone on thymus physiology. Dev Immunol. 1998;6(3-4):317-23. Review. PubMed PMID: 9814605.

140: Cirne-Lima EO, Savino W. Repeated in vivo hydrocortisone treatment promotes a dual modulation of cytokeratin expression by mouse thymic epithelial cells. Neuroimmunomodulation. 1998 Nov-Dec;5(6):328-31. PubMed PMID: 9762015.

139: Freitas CS, Dalmau SR, Savino W. Epidermal growth factor (EGF) modulates fetal thymocyte growth and differentiation: partial reversal by insulin, mimicking by specific inhibitors of EGF receptor tyrosine kinase activity, and differential expression of CD45 phosphatase isotypes. J Immunol. 1998 Oct 1;161(7):3384-92. PubMed PMID: 9759855.

138: de Mello-Coelho V, Gagnerault MC, Souberbielle JC, Strasburger CJ, Savino W, Dardenne M, Postel-Vinay MC. Growth hormone and its receptor are expressed in human thymic cells. Endocrinology. 1998 Sep;139(9):3837-42. PubMed PMID: 9724037.

137: Alves LA, de Carvalho AC, Savino W. Gap junctions: a novel route for direct cell-cell communication in the immune system? Immunol Today. 1998 Jun;19(6):269-75. Review. PubMed PMID: 9639992.

136: Seixas SL, Lagrota-Căndido J, Savino W, Quirico-Santos T. [The importance of mdx mouse in the physiopathology of Duchenne's muscular dystrophy]. Arq Neuropsiquiatr. 1997 Sep;55(3B):610-7. Portuguese. PubMed PMID: 9629415.

135: Savino W, Villa-Verde DM, Alves LA, Dardenne M. Neuroendocrine control of the thymus. Ann N Y Acad Sci. 1998 May 1;840:470-9. Review. PubMed PMID: 9629273.

134: Savino W, Vermeulen M, Dardenne M, Lepault F. The thymic extracellular matrix in genetically engineered mice. Immunol Today. 1998 Mar;19(3):144-5. PubMed PMID: 9540277.

133: Silva-Barbosa SD, Cotta-de-Almeida V, Riederer I, De Meis J, Dardenne M, Bonomo A, Savino W. Involvement of laminin and its receptor in abrogation of heart graft rejection by autoreactive T cells from Trypanosoma cruzi-infected mice. J Immunol. 1997 Jul 15;159(2):997-1003. PubMed PMID: 9218622.

132: de Mello-Coelho V, Villa-Verde DM, Dardenne M, Savino W. Pituitary hormones modulate cell-cell interactions between thymocytes and thymic epithelial cells. J Neuroimmunol. 1997 Jun;76(1-2):39-49. PubMed PMID: 9184631.

131: Dalmau SR, Freitas CS, Savino W. Radio- and chemoprotection of bone marrow cells by opposite cell cycle-acting cytokines. Leuk Res. 1997 Feb;21(2):93-9. Review. PubMed PMID: 9112424.

130: Cotta-de-Almeida V, Bertho AL, Villa-Verde DM, Savino W. Phenotypic andfunctional alterations of thymic nurse cells following acute Trypanosoma cruzi infection. Clin Immunol Immunopathol. 1997 Feb;82(2):125-32. PubMed PMID: 9000480.

129: Colomb E, Savino W, Wicker L, Peterson L, Dardenne M, Carnaud C. Genetic control of giant perivascular space formation in the thymus of NOD mice. Diabetes. 1996 Nov;45(11):1535-40. PubMed PMID: 8866558.

128: Savino W, Silva-Barbosa SD. Laminin/VLA-6 interactions and T cell function. Braz J Med Biol Res. 1996 Sep;29(9):1209-20. PubMed PMID: 9181065.

127: Alves LA, Coutinho-Silva R, Persechini PM, Spray DC, Savino W, Campos de Carvalho AC. Are there functional gap junctions or junctional hemichannels in macrophages? Blood. 1996 Jul 1;88(1):328-34. PubMed PMID: 8704191.

126: Lagrota-Cândido JM, Villa-Verde DM, Vanderlei FH Jr, Savino W. Extracellular matrix components of the mouse thymus microenvironment. V. Interferon-gamma modulates thymic epithelial cell/thymocyte interactions via extracellular matrix ligands and receptors. Cell Immunol. 1996 Jun 15;170(2):235-44. PubMed PMID: 8660823.

125: Persechini PM, Coutinho-Silva R, Alves LA, Campos-de-Carvalho AC, Savino W. The P2Z purinoceptor: an open question in the immune system. Immunol Today. 1996 Jun;17(6):292-4. PubMed PMID: 8962635.

124: Coutinho-Silva R, Alves LA, de Carvalho AC, Savino W, Persechini PM. Characterization of P2Z purinergic receptors on phagocytic cells of the thymic reticulum in culture. Biochim Biophys Acta. 1996 Apr 26;1280(2):217-22. PubMed PMID: 8639696.

123: Savino W, Dardenne M, Carnaud C. The conveyor belt model for intrathymic T-cell migration. Immunol Today. 1996 Feb;17(2):97-8. PubMed PMID: 8808058.

122: Coutinho-Silva R, Alves LA, Savino W, Persechini PM. A cation non-selective channel induced by extracellular ATP in macrophages and phagocytic cells of the thymic reticulum. Biochim Biophys Acta. 1996 Jan 12;1278(1):125-30. PubMed PMID: 8611600.

120: Tendler M, Brito CA, Vilar MM, Serra-Freire N, Diogo CM, Almeida MS, Delbem AC, Da Silva JF, Savino W, Garratt RC, Katz N, Simpson AS. A Schistosoma mansoni fatty acid-binding protein, Sm14, is the potential basis of a dual-purpose anti-helminth vaccine. Proc Natl Acad Sci U S A. 1996 Jan 9;93(1):269-73. PubMed PMID: 8552619.

120: Dardenne M, Savino W. Interdependence of the endocrine and immune systems. Adv Neuroimmunol. 1996;6(4):297-307. Review. PubMed PMID: 9183514.

119: Savino W, de Mello-Coelho V, Dardenne M. Control of the thymic microenvironment by growth hormone/insulin-like growth factor-I-mediated circuits. Neuroimmunomodulation. 1995 Nov-Dec;2(6):313-8. Review. PubMed PMID: 8840333.

118: Villa-Verde DM, Mello-Coelho V, Lagrota-Cândido JM, Chammas R, Savino W. The thymic nurse cell complex: an in vitro model for extracellular matrix-mediated intrathymic T cell migration. Braz J Med Biol Res. 1995 Aug;28(8):907-12. Review. PubMed PMID: 8555994.

117: Savino W, Dardenne M. Immune-neuroendocrine interactions. Immunol Today. 1995 Jul;16(7):318-22. Review. PubMed PMID: 7576063.

116: Quirico-Santos T, Ribeiro MM, Savino W. Increased deposition of extracellular matrix components in the thymus gland of MDX mouse: correlation with the muscular lesion. J Neuroimmunol. 1995 Jun;59(1-2):9-18. PubMed PMID: 7797624.

115: Alves LA, Campos de Carvalho AC, Cirne Lima EO, Rocha e Souza CM, Dardenne M, Spray DC, Savino W. Functional gap junctions in thymic epithelial cells are formed by connexin 43. Eur J Immunol. 1995 Feb;25(2):431-7. PubMed PMID: 7875205.

114: Freitas CS, Lyra JS, Dalmau SR, Savino W. In vivo and in vitro expression of tenascin by human thymic microenvironmental cells. Dev Immunol. 1995;4(2):139-47. PubMed PMID: 9700363.

113: Leite De Moraes MC, Touraine P, Gagnerault MC, Savino W, Kelly PA, Dardenne M. Prolactin receptors and the immune system. Ann Endocrinol (Paris). 1995;56(6):567-70. Review. PubMed PMID: 8787345.

112: Dardenne M, Savino W. Prolactin-mediated cellular interactions in the thymus. Ann N Y Acad Sci. 1994 Nov 25;741:100-7. Review. PubMed PMID: 7825796.

111: Dardenne M, Savino W. Control of thymus physiology by peptidic hormones and neuropeptides. Immunol Today. 1994 Nov;15(11):518-23. Review. PubMed PMID: 7802921.

110: Andrade CG, Savino W, Abrahamsohn PA, Zorn TM. Distribution of desmoplakin I/II in endometrial cells of mice in the artificially induced decidua. Tissue Cell. 1994 Oct;26(5):639-47. PubMed PMID: 9437243.

109: Seixas SI, Wajsenzon IJ, Savino W, Quirico-Santos T. Altered deposition of extracellular matrix components in the skeletal muscle and lymph node of the MDX dystrophic mouse. Braz J Med Biol Res. 1994 Sep;27(9):2229-40. PubMed PMID: 7787807.

108: Cavalcanti Júnior GB, Savino W, Pombo-de-Oliveira MS. CD44 expression in T-cell lymphoblastic leukemia. Braz J Med Biol Res. 1994 Sep;27(9):2259-66. PubMed PMID: 7540475.

107: Diogo CM, Mendonça MC, Savino W, Katz N, Tendler M. Immunoreactivity of a cytokeratin-related polypeptide from adult Schistosoma mansoni. Int J Parasitol. 1994 Aug;24(5):727-32. PubMed PMID: 7523323.

106: Vieira JL, de Souza LR, Savino W. Conceptual aspects of the thymic microenvironment. Immunol Today. 1994 Apr;15(4):192-3. PubMed PMID: 7515245.

105: Villa-Verde DM, Lagrota-Candido JM, Vannier-Santos MA, Chammas R, Brentani RR, Savino W. Extracellular matrix components of the mouse thymus microenvironment. IV. Modulation of thymic nurse cells by extracellular matrix ligands and receptors. Eur J Immunol. 1994 Mar;24(3):659-64. PubMed PMID: 7510239.

104: Leite de Moraes MD, Minoprio P, Dy M, Dardenne M, Savino W, Hontebeyrie-Joskowicz M. Endogenous IL-10 and IFN-gamma production controls thymic cell proliferation in mice acutely infected by Trypanosoma cruzi. Scand J Immunol. 1994 Jan;39(1):51-8. PubMed PMID: 8290893.

103: Alves LA, de Carvalho AC, Parreira-Martins L, Dardenne M, Savino W. Intrathymic gap junction-mediated communication. Adv Exp Med Biol. 1994;355:155-8. PubMed PMID: 7709816.

102: Savino W, Carnaud C, Dardenne M. Characterization of giant perivascular spaces in the thymus of the nonobese diabetic mouse. Adv Exp Med Biol. 1994;355:143-5. PubMed PMID: 7709813.

101: Lyra JS, Madi K, Maeda CT, Savino W. Thymic extracellular matrix in human malnutrition. J Pathol. 1993 Nov;171(3):231-6. PubMed PMID: 8277371.

100: Lannes-Vieira J, Chammas R, Villa-Verde DM, Vannier-dos-Santos MA, Mello-Coelho V, de Souza SJ, Brentani RR, Savino W. Extracellular matrix components of the mouse thymic microenvironment. III. Thymic epithelial cells express the VLA6 complex that is involved in laminin-mediated interactions with thymocytes. Int Immunol. 1993 Nov;5(11):1421-30. PubMed PMID: 8260456.

099: Villa-Verde DM, de Mello-Coelho V, Farias-de-Oliveira DA, Dardenne M, Savino W. Pleiotropic influence of triiodothyronine on thymus physiology. Endocrinology. 1993 Aug;133(2):867-75. PubMed PMID: 8344222.

098: Dalmau SR, Freitas CS, Savino W. A modified assay for measuring thymocyte co-stimulatory activity. Mem Inst Oswaldo Cruz. 1993 Jul-Sep;88(3):419-25. PubMed PMID: 8107604.

097: Gagnerault MC, Touraine P, Savino W, Kelly PA, Dardenne M. Expression of prolactin receptors in murine lymphoid cells in normal and autoimmune situations. J Immunol. 1993 Jun 15;150(12):5673-81. PubMed PMID: 8515082.

096: Cirne-Lima EO, van Ewijk W, Savino W. Cortical and medullary phenotypes within a mouse thymic epithelial cell line. In Vitro Cell Dev Biol Anim. 1993 Jun;29(6):443-5. doi: 10.1007/BF02639375. PubMed PMID: 27519742.

095: Cirne-Lima EO, van Ewijk W, Savino W. Cortical and medullary phenotypes within a mouse thymic epithelial cell line. In Vitro Cell Dev Biol Anim. 1993 Jun;29A(6):443-5. PubMed PMID: 7687242.

094: Savino W, Villa-Verde DM, Lannes-Vieira J. Extracellular matrix proteins in intrathymic T-cell migration and differentiation? Immunol Today. 1993 Apr;14(4):158-61. Review. PubMed PMID: 8499075.

093: Dardenne M, Boukaiba N, Gagnerault MC, Homo-Delarche F, Chappuis P, Lemonnier D, Savino W. Restoration of the thymus in aging mice by in vivo zinc supplementation. Clin Immunol Immunopathol. 1993 Feb;66(2):127-35. PubMed PMID: 8453784.

092: Savino W, Carnaud C, Luan JJ, Bach JF, Dardenne M. Characterization of the extracellular matrix-containing giant perivascular spaces in the NOD mouse thymus. Diabetes. 1993 Jan;42(1):134-40. PubMed PMID: 8093603.

091: Dardenne M, Pléau JM, Savino W, Prasad AS, Bach JF. Biochemical and biological aspects of the interaction between thymulin and zinc. Prog Clin Biol Res. 1993;380:23-32. Review. PubMed PMID: 7681212.

090: De Souza LR, Savino W. Modulation of cytokeratin expression in the hamster thymus: evidence for a plasticity of the thymic epithelium. Dev Immunol. 1993;3(2):137-46. PubMed PMID: 7507745.

089: De Souza LR, Trajano V, Savino W. Is there an interspecific diversity of the thymic microenvironment? Dev Immunol. 1993;3(2):123-35. PubMed PMID: 7507744.

088: Goya RG, Gagnerault MC, De Moraes MC, Savino W, Dardenne M. In vivo effects of growth hormone on thymus function in aging mice. Brain Behav Immun. 1992 Dec;6(4):341-54. PubMed PMID: 1490029.

087: Villa-Verde DM, Defresne MP, Vannier-dos-Santos MA, Dussault JH, Boniver J, Savino W. Identification of nuclear triiodothyronine receptors in the thymic epithelium. Endocrinology. 1992 Sep;131(3):1313-20. PubMed PMID: 1505466.

086: Leite-de-Moraes MC, Hontebeyrie-Joskowicz M, Dardenne M, Savino W. Modulation of thymocyte subsets during acute and chronic phases of experimental Trypanosoma cruzi infection. Immunology. 1992 Sep;77(1):95-8. PubMed PMID: 1398769.

085: Timsit J, Savino W, Safieh B, Chanson P, Gagnerault MC, Bach JF, Dardenne M. Growth hormone and insulin-like growth factor-I stimulate hormonal function and proliferation of thymic epithelial cells. J Clin Endocrinol Metab. 1992 Jul;75(1):183-8. PubMed PMID: 1619008.

084: Lannes-Vieira J, Cirne-Lima EO, Savino W. Hydrocortisone modulates cytokeratin and extracellular matrix expression by the thymic microenvironment. Ann N Y Acad Sci. 1992 Apr 15;650:81-4. PubMed PMID: 1376575.

083: Dardenne M, Savino W. Neuroendocrine circuits controlling the physiology of the thymic epithelium. Ann N Y Acad Sci. 1992 Apr 15;650:85-90. Review. PubMed PMID: 1318665.

082: dos Santos RR, Rossi MA, Laus JL, Silva JS, Savino W, Mengel J. Anti-CD4 abrogates rejection and reestablishes long-term tolerance to syngeneic newborn hearts grafted in mice chronically infected with Trypanosoma cruzi. J Exp Med. 1992 Jan 1;175(1):29-39. PubMed PMID: 1730921.

081: Tendler M, Pinto RM, Lima Ade O, Savino W, Katz N. Vaccination in murine schistosomiasis with adult worm derived antigens--II. Protective and immune response in inbred mice. Mem Inst Oswaldo Cruz. 1992;87 Suppl 1:281-6. PubMed PMID: 1343796.

080: Savino W, de Moraes Mdo C, Barbosa SD, Da Fonseca EC, De Almeida VC, Hontebeyrie-Joscowicz M. Is the thymus a target organ in infectious diseases? Mem Inst Oswaldo Cruz. 1992;87 Suppl 5:73-8. Review. PubMed PMID: 1342720.

079: Dardenne M, Kelly PA, Bach JF, Savino W. Identification and functional activity of prolactin receptors in thymic epithelial cells. Proc Natl Acad Sci U S A. 1991 Nov 1;88(21):9700-4. PubMed PMID: 1946390; PubMed Central PMCID: PMC52786.

078: Lannes-Vieira J, Dardenne M, Savino W. Extracellular matrix components of the mouse thymus microenvironment: ontogenetic studies and modulation by glucocorticoid hormones. J Histochem Cytochem. 1991 Nov;39(11):1539-46. PubMed PMID: 1918928.

077: Lannes-Vieira J, van der Meide PH, Savino W. Extracellular matrix componentes of the mouse thymic microenvironment. II. In vitro modulation of basement membrane proteins by interferon-gamma: relationship with thymic epithelial cell proliferation. Cell Immunol. 1991 Oct 15;137(2):329-40. PubMed PMID: 1909934.

076: Villa-Verde DM, Defresne MP, Greimers R, Dardenne M, Savino W, Boniver J. Induction of thymocyte proliferation by supernatants from a mouse thymic epithelial cell line. Cell Immunol. 1991 Aug;136(1):113-21. PubMed PMID: 1905586.

075: Tendler M, Pinto RM, Lima Ade O, Savino W, Katz N. Vaccination in murine schistosomiasis with adult worm-derived antigens: variables influencing protection in outbred mice. Int J Parasitol. 1991 Jun;21(3):299-306. PubMed PMID: 1910017.

0742: Savino W, Boitard C, Bach JF, Dardenne M. Studies on the thymus in nonobese diabetic mouse. I. Changes in the microenvironmental compartments. Lab Invest. 1991 Mar;64(3):405-17. PubMed PMID: 2002657.

073: Leite de Moraes MC, Hontebeyrie-Joskowicz M, Leboulenger F, Savino W, Dardenne M, Lepault F. Studies on the thymus in Chagas' disease. II. Thymocyte subset fluctuations in Trypanosoma cruzi-infected mice: relationship to stress. Scand J Immunol. 1991 Mar;33(3):267-75. PubMed PMID: 1672774.

072: Da Costa SC, Calabrese KS, Bauer PG, Savino W, Lagrange PH. Studies of the thymus in Chagas' disease: III. Colonization of the thymus and other lymphoid organs of adult and newborn mice by Trypanosoma cruzi. Pathol Biol (Paris). 1991 Feb;39(2):91-7. PubMed PMID: 1901987.

071: Ribeiro-dos-Santos R, Pirmez C, Savino W. Role of autoreactive immunological mechanisms in chagasic carditis. Res Immunol. 1991 Feb;142(2):134-7. Review. PubMed PMID: 1678200.

070: Savino W, Vieira JL. Is there a role for extracellular matrix in thymus physiology and pathology? Mem Inst Oswaldo Cruz. 1991;86 Suppl 3:91-7. Review. PubMed PMID: 1845252.

069: Villa-Verde DM, Savino W. Thymic "nurse" cells express extracellular matrix proteins. Mem Inst Oswaldo Cruz. 1991;86 Suppl 3:109-10. PubMed PMID: 1845234.

068: Dos Santos RR, Laus JL, Mengel JO, Savino W. Chronic chagasic cardiopathy: role of CD4 T cells in the anti-heart autoreactivity. Mem Inst Oswaldo Cruz. 1990 Jul-Sep;85(3):367-9. PubMed PMID: 2134712.

067: Savino W. The thymic microenvironment in infectious diseases. Mem Inst Oswaldo Cruz. 1990 Jul-Sep;85(3):255-60. Review. PubMed PMID: 2134700.

066: Pirmez C, Oliveira-Neto MP, Grimaldi Júnior G, Savino W. Immunopathology of American cutaneous leishmaniasis. Modulation of MHC class II gene products by keratinocytes before and after glucantime therapy. Mem Inst Oswaldo Cruz. 1990 Apr-Jun;85(2):203-9. PubMed PMID: 2128362.

065: Savino W, Ban E, Villa Verde DM, Dardenne M. Modulation of thymic endocrine function, cytokeratin expression and cell proliferation, by hormones and neuropeptides. Int J Neurosci. 1990 Apr;51(3-4):201-4. PubMed PMID: 1703996.

064: Kuvibidila S, Dardenne M, Savino W, Lepault F. Influence of iron-deficiency anemia on selected thymus functions in mice: thymulin biological activity, T-cell subsets, and thymocyte proliferation. Am J Clin Nutr. 1990 Feb;51(2):228-32. PubMed PMID: 2305709.

063: Savino W, Gagnerault MC, Bach JF, Dardenne M. Neuroendocrine control of thymic hormonal production. II. Stimulatory effects of endogenous opioids on thymulin production by cultured human and murine thymic epithelial cells. Life Sci. 1990;46(23):1687-97. PubMed PMID: 2192215.

062: Timsit J, Safieh B, Gagnerault MC, Savino W, Lubetzki J, Bach JF, Dardenne M. [Increase of circulating levels of thymulin in hyperprolactinemia and acromegaly]. C R Acad Sci III. 1990;310(1):7-13. French. PubMed PMID: 2105144.

061: Dardenne M, Savino W, Nabarra B, Bach JF. Male BXSB mice develop a thymic hormonal dysfunction with presence of intraepithelial crystalline inclusions. Clin Immunol Immunopathol. 1989 Sep;52(3):392-405. PubMed PMID: 2667822.

060: Savino W, Leite-de-Moraes MC, Hontebeyrie-Joskowicz M, Dardenne M. Studies on the thymus in Chagas' disease. I. Changes in the thymic microenvironment in mice acutely infected with Trypanosoma cruzi. Eur J Immunol. 1989 Sep;19(9):1727-33. PubMed PMID: 2507328.

059: Nabarra B, Manganella G, Savino W. Differential diagnosis between undifferentiated tumor and thymoma by electron microscopy and immunohistochemical labelling. Pathol Res Pract. 1989 Aug;185(2):257-63; discussion 264-6. PubMed PMID: 2678036.

058: Dardenne M, Savino W, Gagnerault MC, Itoh T, Bach JF. Neuroendocrine control of thymic hormonal production. I. Prolactin stimulates in vivo and in vitro the production of thymulin by human and murine thymic epithelial cells. Endocrinology. 1989 Jul;125(1):3-12. PubMed PMID: 2737149.

057: Timsit J, Savino W, Boitard C, Bach JF. The role of class II major histocompatibility complex antigens in autoimmune diabetes: animal models. J Autoimmun. 1989 Jun;2 Suppl:115-29. PubMed PMID: 2789059.

056: Fonseca EC, Lannes-Vieira J, Villa-Verde DM, Savino W. Thymic extracellular matrix in Down's syndrome. Braz J Med Biol Res. 1989;22(8):971-4. PubMed PMID: 2534476.

055: Savino W, Cirne-Lima EO, Soares JF, Leite-de-Moraes Mdo C, Ono IP, Dardenne M. Hydrocortisone increases the numbers of KL1+ cells, a discrete thymic epithelial cell subset characterized by high molecular weight cytokeratin expression. Endocrinology. 1988 Nov;123(5):2557-64. PubMed PMID: 2458915.

054: Savino W, Dardenne M. Immunohistochemical studies on a human thymic epithelial cell subset defined by the anti-cytokeratin 18 monoclonal antibody. Cell Tissue Res. 1988 Oct;254(1):225-31. PubMed PMID: 2461804.

053: Savino W, Dardenne M. Developmental studies on expression of monoclonal antibody-defined cytokeratins by thymic epithelial cells from normal and autoimmune mice. J Histochem Cytochem. 1988 Sep;36(9):1123-9. PubMed PMID: 2457046.

052: Savino W, Emonard H, Grimaud JA. Thymic extracellular matrix in myasthenia gravis. II. Immunohistochemical evidence for increased type I collagen degradation. J Neuroimmunol. 1988 Jun;18(3):223-30. PubMed PMID: 3366881.

051: Dardenne M, Savino W, Bach JF. Modulation of thymic endocrine function by thyroid and steroid hormones. Int J Neurosci. 1988 Apr;39(3-4):325-34. Review. PubMed PMID: 3045036.

050: Moura-Campos LC, Savino W. Morphometrical analysis of the thymus from mice submitted to low temperature. Acta Anat (Basel). 1988;132(1):9-11. PubMed PMID: 3400425.

049: Savino W, Bartoccioni E, Homo-Delarche F, Gagnerault MC, Itoh T, Dardenne M. Thymic hormone containing cells--IX. Steroids in vitro modulate thymulin secretion by human and murine thymic epithelial cells. J Steroid Biochem. 1988;30(1-6):479-84. PubMed PMID: 3386277.

048: Savino W, Takacs L, Monostori E, Dardenne M. Phenotypic changes of the subseptal thymic epithelium in myasthenia gravis. Thymus. 1988-1989;12(2):111-6. PubMed PMID: 2471300.

047: Papiernik M, Lehuen A, Savino W. Definition of a differentiation antigen on the surface of phagocytic cells of thymic reticulum which is down-regulated by interferon gamma. Cell Immunol. 1987 Apr 1;105(2):280-9. PubMed PMID: 2436808.

046: Dardenne M, Savino W, Feutren G, Bach JF. Stimulatory effects of cyclosporin A on human and mouse thymic epithelial cells. Eur J Immunol. 1987 Feb;17(2):275-9. PubMed PMID: 3556386.

045: Lang P, Moritz S, Savino W, Rostoker G, Dardenne M. Role of suppressor cells and thymic hormone function in the early and late phases of murine graft-versus-host reactions. Transplant Proc. 1987 Feb;19(1 Pt 3):2692-4. PubMed PMID: 2978896.

044: Takacs L, Savino W, Monostori E, Ando I, Bach JF, Dardenne M. Cortical thymocyte differentiation in thymomas: an immunohistologic analysis of the pathologic microenvironment. J Immunol. 1987 Feb 1;138(3):687-98. PubMed PMID: 2433328.

043: Cohen-Kaminsky S, Berrih-Aknin S, Savino W, Dardenne M. Immunodetection of the thymic epithelial P19 antigen in cultures of normal and pathological human thymic epithelium. Thymus. 1987;9(4):225-38. PubMed PMID: 3313829.

042: Dardenne M, Savino W, Bach JF. Thymomatous epithelial cells and skeletal muscle share a common epitope defined by a monoclonal antibody. Am J Pathol. 1987 Jan;126(1):194-8. PubMed PMID: 2433946.

041: Savino W, Dardenne M. Thymic hormone-containing cells. VIII. Effects of colchicine, cytochalasin B, and monensin on secretion of thymulin by cultured human thymic epithelial cells. J Histochem Cytochem. 1986 Dec;34(12):1719-23. PubMed PMID: 3782779.

040: Lang P, Dardenne M, Savino W, Moritz S, Shearer G. Cytotoxic T cell response and thymic hormonal dysfunction in graft-vs-host mice. J Immunol. 1986 Mar 15;136(6):1999-2004. PubMed PMID: 2419420.

039: Kaiserlian D, Savino W, Uriel J, Hassid J, Dardenne M, Bach JF. The wasted mutant mouse. II. Immunological abnormalities in a mouse described as a model of ataxia-telangiectasia. Clin Exp Immunol. 1986 Mar;63(3):562-9. PubMed PMID: 2423278.

038: Dardenne M, Savino W, Duval D, Kaiserlian D, Hassid J, Bach JF. Thymic hormone-containing cells. VII. Adrenals and gonads control the in vivo secretion of thymulin and its plasmatic inhibitor. J Immunol. 1986 Feb 15;136(4):1303-8. PubMed PMID: 3456002.

037: Savino W, Dardenne M, Marche C, Trophilme D, Dupuy JM, Pekovic D, Lapointe N, Bach JF. Thymic epithelium in AIDS. An immunohistologic study. Am J Pathol. 1986 Feb;122(2):302-7. PubMed PMID: 3511724.

036: Savino W, Itoh T, Imhof BA, Dardenne M. Immunohistochemical studies on the phenotype of murine and human thymic stromal cell lines. Thymus. 1986;8(4):245-56. PubMed PMID: 3798526.

035: Savino W, Dardenne M. Analysis of thymic epithelial cell proliferation in vitro by combining bromodeoxyuridine and keratin labeling in an immunofluorescence assay. J Immunol Methods. 1985 Dec 17;85(1):221-6. PubMed PMID: 2416845.

034: Savino W, Durand D, Dardenne M. Immunohistochemical evidence for the expression of the carcinoembryonic antigen by human thymic epithelial cells in vitro and in neoplastic conditions. Am J Pathol. 1985 Dec;121(3):418-25. PubMed PMID: 3907364.

033: Dardenne M, Savino W, Berrih S, Bach JF. A zinc-dependent epitope on the molecule of thymulin, a thymic hormone. Proc Natl Acad Sci U S A. 1985 Oct;82(20):7035-8. PubMed PMID: 2413455.

032: Savino W, Manganella G, Verley JM, Wolff A, Berrih S, Levasseur P, Binet JP, Dardenne M, Bach JF. Thymoma epithelial cells secrete thymic hormone but do not express class II antigens of the major histocompatibility complex. J Clin Invest. 1985 Sep;76(3):1140-6. PubMed PMID: 2413072.

031: Berrih S, Savino W, Cohen S. Extracellular matrix of the human thymus: immunofluorescence studies on frozen sections and cultured epithelial cells. J Histochem Cytochem. 1985 Jul;33(7):655-64. PubMed PMID: 3891843.

030: Nicolas JF, Savino W, Reano A, Viac J, Brochier J, Dardenne M. Heterogeneity of thymic epithelial cell (TEC) keratins--immunohistochemical and biochemical evidence for a subset of highly differentiated TEC in the mouse. J Histochem Cytochem. 1985 Jul;33(7):687-94. PubMed PMID: 2409128.

029: Quere P, Savino W, Dardenne M, Bach MA. Early expression in (NZB X DBA/2)F1 hybrids of thymus dysfunction and abnormal antibody production inherited from the NZB parent. Eur J Immunol. 1985 Feb;15(2):112-7. PubMed PMID: 3871696.

028: Savino W, Gastinel LN, Wolff A, Dardenne M, Bach JF. [Immunochemical characterization of molecules identified in human thymic epithelium by anti-thymulin monoclonal antibodies]. C R Acad Sci III. 1985;301(11):577-9. French. PubMed PMID: 3936598.

027: Savino W, Dardenne M. Thymic hormone-containing cells VI. Immunohistologic evidence for the simultaneous presence of thymulin, thymopoietin and thymosin alpha 1 in normal and pathological human thymuses. Eur J Immunol. 1984 Nov;14(11):987-91. PubMed PMID: 6389155.

026: Savino W, Berrih S, Dardenne M. Thymic epithelial antigen, acquired during ontogeny and defined by the anti-p19 monoclonal antibody, is lost in thymomas. Lab Invest. 1984 Sep;51(3):292-6. PubMed PMID: 6433106.

025: Savino W, Huang PC, Corrigan A, Berrih S, Dardenne M. Thymic hormone-containing cells. V. Immunohistological detection of metallothionein within the cells bearing thymulin (a zinc-containing hormone) in human and mouse thymuses. J Histochem Cytochem. 1984 Sep;32(9):942-6. PubMed PMID: 6379040.

024: Kaiserlian D, Savino W, Hassid J, Dardenne M. Studies of the thymus in mice bearing the Lewis lung carcinoma. III. Possible mechanisms of tumor-induced thymic atrophy. Clin Immunol Immunopathol. 1984 Sep;32(3):316-25. PubMed PMID: 6331932.

023: Dardenne M, Savino W, Bach JF. Autoimmune mice develop antibodies to thymic hormone: production of anti-thymulin monoclonal autoantibodies from diabetic (db/db) and B/W mice. J Immunol. 1984 Aug;133(2):740-3. PubMed PMID: 6539799.

022: Savino W, Berrih S. Thymic extracellular matrix in myasthenia gravis. Lancet. 1984 Jul 7;2(8393):45-6. PubMed PMID: 6145968.

021: Dardenne M, Savino W, Wade S, Kaiserlian D, Lemonnier D, Bach JF. In vivo and in vitro studies of thymulin in marginally zinc-deficient mice. Eur J Immunol. 1984 May;14(5):454-8. PubMed PMID: 6609827.

020: Berrih S, Savino W, Azoulay M, Dardenne M, Bach JF. Production of anti-thymulin (FTS) monoclonal antibodies by immunization against human thymic epithelial cells. J Histochem Cytochem. 1984 Apr;32(4):432-8. PubMed PMID: 6200531.

019: Savino W, Wolf B, Aratan-Spire S, Dardenne M. Thymic hormone containing cells. IV. Fluctuations in the thyroid hormone levels in vivo can modulate the secretion of thymulin by the epithelial cells of young mouse thymus. Clin Exp Immunol. 1984 Mar;55(3):629-35. PubMed PMID: 6584256.

018: Dardenne M, Debray-Sachs M, Savino W, Bach JF. [Production of monoclonal autoantibodies inhibiting the secretion of insulin by the islets of Langerhans]. C R Acad Sci III. 1984;298(18):523-6. French. PubMed PMID: 6432224.

017: Auger C, Monier JC, Savino W, Dardenne M. Localization of thymulin (FTS-Zn) in mouse thymus. Comparative data using monoclonal antibodies following different plastic embedding procedures. Biol Cell. 1984;52(2):139-46. PubMed PMID: 6241489.

016: Debray-Sachs M, Dardenne M, Sai P, Savino W, Quiniou MC, Boillot D, Gepts W,Assan R. Anti-islet immunity and thymic dysfunction in the mutant diabetic C57BL/KsJ db/db mouse. Diabetes. 1983 Nov;32(11):1048-54. PubMed PMID: 6357903.

015: Kaiserlian D, Savino W, Bach JF. Studies of the thymus in mice bearing the Lewis lung carcinoma. I. Thymic natural killer cell activity in 3LL tumor-bearing mice. Cell Immunol. 1983 Aug;80(1):187-97. PubMed PMID: 6872007.

014: Kaiserlian D, Savino W, Dardenne M. Studies of the thymus in mice bearing the Lewis lung carcinoma. II. Modulation of thymic natural killer activity by thymulin (FTS-Zn) and the antimetastatic effect of zinc. Clin Immunol Immunopathol. 1983 Aug;28(2):192-204. PubMed PMID: 6688208.

013: Savino W, Dardenne M, Bach JF. Thymic hormone containing cells. III. Evidence for a feed-back regulation of the secretion of the serum thymic factor (FTS) by thymic epithelial cells. Clin Exp Immunol. 1983 Apr;52(1):7-12. PubMed PMID: 6683135; PubMed Central PMCID: PMC1535586.

012: Savino W, Dardenne M, Bach JF. Thymic hormone containing cells. II. Evolution of cells containing the serum thymic factor (FTS or thymulin) in normal and autoimmune mice, as revealed by anti-FTS monoclonal antibodies. Relationship with Ia bearing cells. Clin Exp Immunol. 1983 Apr;52(1):1-6. PubMed PMID: 6345030.

011: Dardenne M, Savino W, Gastinel LN, Nabarra B, Bach JF. Thymic dysfunction in the mutant diabetic (db/db) mouse. J Immunol. 1983 Mar;130(3):1195-9. PubMed PMID: 6571875.

010: Papiernik M, Nabarra B, Savino W, Pontoux C, Barbey S. Thymic reticulum in mice. II. Culture and characterization of nonepithelial phagocytic cells of the thymic reticulum: their role in the syngeneic stimulation of thymic medullary lymphocytes. Eur J Immunol. 1983 Feb;13(2):147-55. PubMed PMID: 6601009.

009: Savino W, Dardenne M, Papiernik M, Bach JF. Thymic hormone-containing cells. Characterization and localization of serum thymic factor in young mouse thymus studied by monoclonal antibodies. J Exp Med. 1982 Aug 1;156(2):628-33. PubMed PMID: 7047671;

008: Savino W, Santa-Rosa GL. Histophysiology of thymic epithelial reticular cells. Arch Histol Jpn. 1982 May;45(2):139-44. Review. PubMed PMID: 6751281.

007: Dardenne M, Pleau JM, Savino W, Bach JF. Monoclonal antibody against the serum thymic factor (FTS). Immunol Lett. 1982 Feb;4(2):79-83. PubMed PMID: 7037626.

006: Savino W, de Moura-Campos LC, Santa-Rosa GL. Cold as an agent to induce thymic involution in the golden hamster. Anat Anz. 1982;152(3):239-43. PubMed PMID: 7158803.

005: Savino W, Santa-Rosa GL. The thymus gland in the loricariidean catfish *Harttia sp*. Dev Comp Immunol. 1982 Spring;6(2):375-80. PubMed PMID: 7095236.

004: Savino W. The elastic system in the thymus of the opossum *Didelphis marsupialis aurita*. Anat Anz. 1982;151(1):70-3. PubMed PMID: 7072974.

003: Fuks MA, Santa Rosa GL, Savino W, Goulart EG. The responses to *Schistosoma mansoni* of infected mice and non-infected mice following parabiosis. I--Histological aspects. An Microbiol (Rio J). 1982;27:129-38. PubMed PMID: 6765355.

002: Savino W. Microtubules in thymic lymphocytes of the opossum *Didelphis marsupialis*. Thymus. 1981 Feb;2(4-5):297-8. PubMed PMID: 6972107.

001: Savino W, Santa-Rosa GL. Autofluorescence and fluorochrome-staining of Hassall's bodies in rabbits. Rev Bras Pesquisas Med Biol. 1978 Oct;11(4-5):283-6. PubMed PMID: 82983.