

Resume

Name: Fabio R. Santori

Citizenship: USA

Home/Mailing Address: 11 Burnt Swamp Rd
Woodbridge, CT06525
Tel: (203) 389-6202

Email: fsantof01@gmail.com

Language Skills: Fluent in Portuguese, German, Italian and English
Translation grade (written) Portuguese, German and Italian to English and English to Portuguese.
Reading proficient in Spanish and French

Education and professional experience:

1983-1988 B.S. in Biology University of Araras, Araras, Brazil

1988-1991 M. S. in Microbiology
Escola Paulista de Medicina, São Paulo, Brazil
Mentor: Renato Arruda Mortara, Ph.D.

1992-1993 Research technician in Biochemistry
Escola paulista de Medicina, São Paulo, Brazil
Supervisor: Maria Lucia Cardoso de Almeida, Ph.D.

1993-1996 Ph.D. in Microbiology and Immunology
Escola Paulista de Medicina, São Paulo, Brazil
Mentor: Nobuko Yoshida, Ph.D.

1996-1998 Visiting scientist
New York Blood Center, New York, USA
Supervisor: Pablo Rubinstein, M.D., Ph.D.

1998-2003 Assistant Research Scientist
Department of Pathology,
New York University Medical Center, New York, USA
Mentor: Stanislav Vukmanovic, M.D., Ph.D.

2003-2014 Postdoctoral fellow, Skirball Institute of Biomolecular
Medicine, New York, NY 10016, USA
Mentor: Dan R. Littman, M.D., Ph.D.

Awards:

Fellowship Centro de Apoio a Pesquisa (CAPES) (1993-1996)

Fellowship Fundação de Amparo a Pesquisa do Estado de São Paulo (FAPESP)(1996-1998)

Tropical Diseases Research (TDR) training grant WHO – declined in favor of FAPESP grant

NIH-T32 Research Training T32HL007151 (2005-2006).

Translation software experience: I have experience in Microsoft office (Word, Excel, Powerpoint). For translations I worked with the help of Babylon, Google translate and I am training to use SDL Trados.

Publications:

1. ***Santori, F.R.**, Huang, P., van de Pavert, S., Douglass Jr., E.F., Leaver, D., Haubrich, B.A., Keber, R., Lorbek, G., Konijn, T., Rosales, B.N., Horvat, S., Rozman, D., Rahier, A., Nes, W.D., Mebius, R., Rastinejad, F. & Littman, D.R. Natural RORY ligands that regulate the development of lymphoid cells. *Cell Metabolism*. 21(2): 286-297, 2015. * Corresponding author.
2. van de Pavert, S.A., Ferreira, M., Domingues, R.G., Ribeiro, H., Molenaar, R., Moreira-Santos, L., Almeida, F.F., Ibiza, S., Barbosa, I., Goverse, G., Labão-Almeida, C., Godinho-Silva, C., Konijn, T., Schooneman, D., O'Toole, T., Mizze, M.R., Habani, Y., Haak, E., **Santori, F.R.**, Littman, D.R., Schulte-Merker, S., Dzierzak, E., Simas, J.P., Mebius, R.E., Veiga-Fernandes, H. Maternal retinoids control type 3 innate lymphoid cells and set the offspring immunity. *Nature*. 508(7494):123-7, 2014.
3. Lima, F.M., Souza, R.T., **Santori, F.R.**, Santos, M.F., Cortez, D.R., Barros, R.M., Cano, M.I., Valadares, H.M., Macedo, A.M., Mortara, R.A., da Silveira, J.F. Interclonal variations in the molecular karyotype of *Trypanosoma cruzi*: chromosome rearrangements in a single cell-derived clone of the G strain. *PLoS One*. 8(5):e63738, 2013.
4. Huh, J.R., Leung, M.W., Huang, P., Ryan, D.A., Krout, M.R., Malapaka, R.R., Chow, J., Manel, N., Ciofani, M., Kim, S.V., Cuesta, A., **Santori, F.R.**, Lafaille, J.J., Xu, H.E., Gin, D.Y., Rastinejad, F. & Littman, D.R. Digoxin and its derivatives suppress Th17 cell differentiation by antagonizing RORYt activity. *Nature*, 472: 486-490, 2011.
5. Popmihajlov Z., **Santori F.R.**, Gebreselassie, D., Sandler, A.D., Vukmanovic, S. Effective adoptive therapy of tap-deficient lymphoma using diverse high avidity alloreactive T cells. *Cancer Immunol Immunother*. 59(4):629-33, 2010. doi: 10.1007/s00262-009-0805-5.
6. Voo, K.S., Wang, Y.H., **Santori, F.R.**, Boggiano, C., Arima, K., Bover, L., Hanabuchi, S., Khalili, J., Marinova, E., Zheng, B., Littman, D.R., Liu, Y.J. Identification of IL-17-producing FOXP3+ regulatory T cells in humans. *Proc. Nat. Acad. Sci. USA*. 106:4793-8, 2009.
7. Stojakovic, M., Salazar-Fontana, L.I., Tatari-Calderone, Z., Badovinac, V.P., **Santori, F.R.**, Kovalovsky, D., Sant'Angelo, D., Harty, J.T. & Vukmanovic, S. Adaptable TCR avidity thresholds for negative selection. *J. Immunol.*, 181:6770-8, 2008.
8. **Santori, F.R.**, Popmihajlov, Z., Nesic, D., Smith, C., Vollmer, A. & Vukmanovic, S. TCR beta chain that forms peptide-independent alloreactive TCR transfers reduced reactivity with irrelevant peptide/MHC complex *J. Immunol.*, 178(10):6109-14, 2007.
9. Vukmanovic S. & **Santori, F.R.** Self-peptide/MHC and TCR antagonism: physiological role and therapeutic potential. *Cell Immunol.*, 233(2):75-84, 2005.
10. Demaria, S., **Santori, F.R.**, Ng, B., Liebes, L., Formenti, S.C., & Vukmanovic, S. Select forms of tumor cell apoptosis induce dendritic cell maturation. *J. Leukoc. Biol.*, 77(3): 361-8, 2005.
11. **Santori, F.R.** & Vukmanovic S. Delineation of signals required for thymocyte positive selection. *J. Immunol.*, 173(9): 5517-23, 2004a.
12. **Santori, F.R.**, Holmberg, K., Ostrov, D., Gascoigne, N.R.J. & Vukmanovic, S. Distinct footprints of TCR engagement with highly homologous ligands. *J. Immunol.*, 172(12): 7466-7475, 2004b.
13. Dong, Y., Demaria, S., Sun, X., **Santori, F.R.**, Jesdale, B.M., De Groot, A.S., Rom, W.N., & Bushkin, Y. HLA-A2-restricted CD8+ cytotoxic T-cell responses to novel *Mycobacterium tuberculosis* targets superoxide dismutase, alanine dehydrogenase and glutamine synthetase. *Infect. Immun.*, 72(4): 2412-2415, 2004.

14. Vukmanović S, **Santori FR**. Cooperation or sabotage? Self-peptide-MHC complexes influence T-cell responses to antigens. *Trends Immunol.*, 24(9):472, 2003.
15. Chen, Y., Dabovic, B., Colarossi, C., **Santori, F.R.**, Lilic, M., Vukmanovic, S. & Rifkin, D.B. Growth retardation as well as spleen and thymus involution in latent TGF- β binding protein (Ltbp)-3 null mice. *J. Cell Physiol.*, 196(2): 319-25, 2003.
16. Vukmanovic, S. Neubert, T.A. & **Santori, F.R.** Could T cell receptor antagonism explain associations between Major Histocompatibility Complex genes and disease? *Trends Mol. Med.* 9(4): 139-46, 2003.
17. **Santori, F.R.**, Brown, S.M., Vukmanovic, S. Genomics- based identification of self-ligands with T cell receptor-specific biological activity. *Immunol. Rev.*; 190: 146-160, 2002a.
18. Lilic M., **Santori, F.R.**, Nielson, E.G., Frey, A.B., Vukmanovic, S. The role of fibroblasts in positive selection of T cells. *J. Immunol.*, 169(9):4945-50, 2002.
19. **Santori F.R.**, Kieper W., Brown S., Lu Y., Neubert T., Johnson K., Naylor S., Vukmanovic S., Hogquist K., Jameson S. Rare, structurally homologous self-peptides promote thymocyte positive selection. *Immunity*, 17(2):131-142, 2002b.
20. **Santori, F.R.**, Arsov, I., Lilic, M. & Vukmanovic, S. Editing autoreactive TCR enables efficient positive selection. *J. Immunol.*; 169(4):1729-34, 2002c.
21. Nesic, D., Maric, M., **Santori, F.R.** & Vukmanovic, S. Factors influencing the patterns of T lymphocyte allorecognition. *Transplantation*; 73(5):797-803, 2002.
22. **Santori, F.R.**, Brown, S., Lu, Y., Neubert, T. & Vukmanovic, S. Positive selection induced by a self peptide with TCR antagonist activity. (*Cutting Edge*) *J. Immunol.*; 167(11):6092-5, 2001a.
23. Vukmanovic, S., Lilic, M., **Santori, F.R.**, Demaria, S. & Kulig, K. Peptide loading of nascent MHC class I molecules. *Arch. Immunol. Ther. Exp (Warsz)*; 49(3):195-201, 2001.
24. **Santori, F.R.**, Arsov, I. & Vukmanovic, S. Modulation of CD8⁺ T cell response to antigen by levels of self MHC class I. *J. Immunol.*; 166(9):5416-21, 2001b.
25. Nesic, D., **Santori, F.R.** & Vukmanovic, S. $\alpha\beta$ TCR⁺ cells are a minimal fraction of peripheral CD8⁺ pool in MHC Class I-deficient mice. *J. Immunol.*, 165(4): 1896-1901, 2000.
26. **Santori, F.R.**, Dorta, M.L., Juliano, L., Juliano, M.A, da Silveira, J.F., Ruiz, R.C. & Yoshida, N. Identification of a domain of *Trypanosoma cruzi* metacyclic trypomastigote surface molecule gp82 required for attachment and invasion of mammalian cells. *Mol. Biochem. Parasitol.*, 78(1-2): 209-216, 1996.
27. **Santori, F.R.**, Paranhos-Bacalla, G.S., Franco da Silveira, J., Yamauchi, L.M., Araya, J.E. & Yoshida, N. A recombinant protein based on *Trypanosoma cruzi* metacyclic trypomastigote 82 kDa antigen that induces an effective immune response to acute infection. *Infect. Immun.* 64(4): 1093-1099, 1996.