

BIOGRAPHICAL SKETCH

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NAME Janaina Maria Alves		POSITION TITLE <i>Assistant Professor</i>	
eRA COMMONS USER NAME (credential, e.g., agency login) JANAINAALVES			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of Mogi das Cruzes	Diploma	2000	Biomedical Sciences
University Federal of São Paulo	Master	2004	Infectious Diseases
University Federal of São Paulo	Ph.D.	2009	Molecular Biology/Biochemistry
Universidad Central del Caribe	Post. Doc.	2011	Molecular Biology/Biochemistry

A. PERSONAL STATEMENT

The goal of this project is to evaluate if HAND could be treated using supernatant of neural progenitor cells. Neural progenitor cells are very unique system and we hypothesize that could release neuroprotective factors. My expertise is focused in cellular differentiation and neuroprotection. However, I have experienced clinical research into HIV-HPV to obtain my master degree. During the past years I become more independent and had the possibility to start to mentor undergraduate students due to a RCMI-Grant. Therefore, I believe that I have the expertise, leadership and motivation necessary to participate this project due to different types of training. As a doctoral fellow at University of São Paulo, I carried out experiments involving the peptide bradykinin in neural progenitor cells differentiation. Bradykinin is released in normal conditions but increased secretion is found in pathological conditions.

At Universidad Central del Caribe, I expanded my knowledge and my research area interest. I started a project that consists on the study of the immunomodulatory effect of Imiquimod in the enhancement of the HIV-specific immune response on a DNA vaccination platform, after vaccination of C57BL/6 mice. We hypothesize that Imiquimod, will enhance the immune response of HIV-specific mediated DNA vaccine against HIV antigens.

My project and the department provide the optimal environment for my success into the biomedical research field. Our research group constantly discusses data, for different purposes. Besides, the department and the University supports the developing skills as a junior scientist, providing all necessary resources, advice and support to personnel in the laboratory, which includes undergraduate, graduate students, and technicians. I strongly believe that I can provide proper training for the new students. This will help to enhance our publication record and will generate data to apply for additional funding support. Importantly, we also attend to scientific meetings to present our results and also to. Together with the proper mentorship, I am immerse in an environment that enhances my skills in writing, data analysis, and decision-making processes regarding research strategies to ensure my success as scientists in biomedical research.

B. POSITIONS AND HONORS**Positions and Employment**

2008	<i>Doctoral training</i>	<i>Department of Biochemistry, Universidad Central del Caribe, Bayamón, Puerto Rico</i>
2009-2011	<i>Postdoctoral Fellow</i>	<i>Departments of Biochemistry and Microbiology and Immunology, Universidad Central del Caribe, Bayamón, Puerto Rico</i>
2011-present	<i>Assistant Professor</i>	<i>Department of Microbiology and Immunology, Universidad Central del Caribe, Bayamón, Puerto Rico</i>

Fellowships

2002-2004 Fellowship of Coordenação de Aperfeiçoamento de Pessoal de Nível Superior
Universidade Federal de São Paulo, UNIFESP, Sao Paulo, Brasil.

2005-2009 Fellowship of Coordenação de Aperfeiçoamento de Pessoal de Nível Superior

Teaching Experience:

2004-2005 Clinical Hematology and Immunology, Faculdade Método de São Paulo, São Paulo - Brazil.

2013 Disinfection and sterilization, and Antimicrobials lectures. Medical Microbiology Course, UCC

Professional Memberships:

Society of Neuroscience, membership ID# 210080204

Professional Development Courses:

1. ASCB MAC 8th Annual Jr Faculty and Postdoctoral Fellows Career Development Workshop, Chicago, IL

C. PUBLICATIONS

1. Ferchmin, P.A., Andino, M., Salaman, R.R., **Alves, J.M.**, Velez-Roman, J., Cuadrado, B., Carrasco, M., Torres-Rivera, W., Segarra, A., Martins, A.H., Leec, J. E., Eterović, V.A. (2013). 4R-cembranoid protects against diisopropylfluorophosphate-mediated Neurodegeneration. *NeuroToxicology*. Submitted
2. **Alves, J.M.**, Martins, A.H., Boukli, N. M., Lameu, C., Glaser, T., Oliveira, Y. V., Salaman, R.R., Nascimento, I. C., Casarini, D. E., Ferchmin, P.A., Eterović, V.A., Pesquero, J.B., Ulrich, H. *In Vitro and in Vivo* Myoblast Differentiation into Skeletal Muscle Depends on Kinin-B2 Receptor Activity. (2013). Submitted
3. Martins, A.H.*, **Alves, J.M.***, Perez, D., Carrasco, M., Torres-Rivera, W., Eterović, V.A., Ferchmin, P.A., Ulrich, H. (2012) Kinin B2 Receptor Mediated Neuroprotection after NMDA Excitotoxicity Is Reversed in the Presence of Kinin-B1 Receptor Agonists. *PLoSOne*.;7(2):e30755.* equally contribution.
4. Trujillo, C.A., Schwindt, T.T., Martins, A.H., **Alves, J.M.**, Mello, L.E., Ulrich, H. (2009). Novel perspectives of neural stem cell differentiation: from neurotransmitters to therapeutics. *Cytometry Part A*.; 75: 38-53.
5. Martins, A.H., **Alves, J.M.**, Trujillo, C.A., Schwindt, T.T., Barnabé, G.F., Motta, F.L.T., Guimarães, A.O., Casarini, D.E., Luiz Mello, E.A., Pesquero, J.B., Ulrich, H. (2008). Kinin-B2 receptor expression and activity during differentiation of embryonic neurospheres. *Cytometry Part A*; 73:361-368.
6. Trujillo, C.A., Nery, A.A., **Alves, J.M.**, Martins, A.H., Ulrich, H. (2007) Anti-VEGF aptamer as a therapeutic agent in clinical ophthalmology trials. *Clinical Ophthalmology*, 1, 393-402.
7. Ulrich, H., Trujillo, C.A., Nery, A.A., **Alves, J.M.**, Majumder, P., Resende, R.R., Martins, A.H. (2006). DNA and RNA aptamers: from tools for basic research towards therapeutic applications. *Comb Chem High Throughput Screen*.9: 619-632.
8. Ribeiro, K.M.X., **Alves, J.M.**, Pignatari, S.N., Weckx, L.L.M. (2006). Detection of Human Papilloma Virus in the tonsils of children undergoing tonsillectomy. *The Brazilian Journal of Infectious Diseases*. 10(3):165-168.

Program Director/Principal Investigator (Last, First, Middle):

D. RESEARCH SUPPORT

G12RR03035 (Rodriguez, J)

09/15/2009-06/30/2014

Source: NIH/NCRR/RCMI

Title: UCC Biomedical Research Centers

Subproject Title: Immunomodulator-Mediated Enhancement of anti-HIV Specific Immune Response