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A. PROFESSIONAL PREPARATION

Georgia Institute of Technology, Atlanta, Georgia. (BS Applied Biology) 1980-1984.
The Florida State University, Tallahassee, Florida. (MSc Biological Sciences) 1985-1988.
George Mason University, Fairfax, Virginia (PhD Environmental Biology and Public Policy; Molecular Evolution). 1990-1995.
Naos Marine Laboratory, Smithsonian Tropical Research Institute, Panama. Postdoctoral Fellow. 1995-1996.
Division of Biomedical Research, Harbor Branch Oceanographic Institute, Ft. Pierce, FL. Postdoctoral Fellow. 1997-1998.

B. APPOINTMENTS

May 2013 - present. **Professor.** *Halmos College of Natural Sciences and Oceanography, Nova Southeastern University.*
May 2010 - 2015. **Co-Director, MS Biology Program.** *Nova Southeastern University,*
July 2007–May 2013. **Associate Professor. MS Biological Sciences Academic Coordinator NSU**
Guy Harvey Oceanographic Center, Nova Southeastern University,
July 1998 – June 2007. **Assistant Scientist.** *Division of Biomedical Research, Harbor Branch Oceanographic Institution, Ft. Pierce, FL.*
September 1999 – 2007. **Adjunct Faculty.** *Department of Biology, Florida Institute of Technology, Melbourne FL.*
September 1997 - 2007. **Adjunct Faculty.** *Indian River Community College, Ft. Pierce, FL.*

C. SELECTED PUBLICATIONS

Five publications most relevant to proposal

1. GIGA Community of Scientists(COS). 2014. The Global Invertebrate Genomics Alliance (GIGA): Developing Community Resources to Study Diverse Invertebrates. *Journal of Heredity.* 105:1-18.
2. Klaus-Peter Koepfli, Benedict Paten, Agostinho Antunes, Kathy Belov, Carlos Bustamante, Todd Castoe, Hiram Clawson, Andrew Crawford, Dan Distel, Richard Durbin, Dent Earl, Matt Fujita, Tony Gamble, Arthur Georges, , Ian Korf, Robert Kuhn, Denis Larkin, Harris Lewin, **Jose V. Lopez**, Stephen J. O'Brien for the G10KCOS et al 2015. The Genome 10K Project and the State of Vertebrate Genomics: A Way Forward. *Reviews in Animal Genetics.* 3:57–111.
3. **Lopez, J.V.**, Yuhki, N., Modi, W., Masuda, R., O'Brien, S.J. (1994) *Numt*, a recent transfer and tandem amplification of mitochondrial DNA in the nuclear genome of the domestic cat. *J. Mol. Evol.* 39:171-190.
4. Hill, M., Hill, A., Lopez, J., Pomponi, S., J.V., Reed, J., Tarver, Redmond, N., Diaz, M.C., Boury-Esnault, N., Cardenas, P., Reiswig, H., Dohrmann, M., Morrow, C. Rubin, E., Chaves-Fonnegra, A., Patel, J., Formica, D., Danka, E., De Laine, B-O., Pohlmann, D., Richie, S., di Stefano, M., Russell, Z., Peterson, K. J., Pisani, D., Thacker, R., Collins, A. 2013 Nuclear housekeeping genes help resolve demosponge relationships and taxonomy. *PLoS ONE* 8(1): e50437. doi:10.1371/journal.pone.0050437.

5. Lopez, J.V. Peterson, C.L., Willoughby, R., Wright, A.E., Enright, E., Zoladz, S., Pomponi, S.A. 2002. Characterization of genetic markers for in vitro cell line identification of the marine sponge, *Axinella corrugata*. *Journal of Heredity*. 93:27-36.

Five other significant publications

6. Negandhi, K., Blackwelder, P.L, Ereskovsky, A.V., Lopez, J.V. 2010. Florida Reef Sponges Harbor Coral Disease-Associated Bacteria. *Symbiosis* 51: 117 – 129.
7. Cuvelier, M., Vega-Thurber, R., Blackwelder, P., McCarthy, P.J., Lopez, J.V. 2014. Two distinct microbial communities revealed in the sponge *Cinachyrella* . *Frontiers in Microbiology*. Vol URL=http://www.frontiersin.org/Journal/Abstract.aspx?s=53&name=aquatic_microbiology&ART_Doi=10.3389/fmicb.2014.00581.
8. Hoelzel, A.R., **Lopez, J.V.**, Dover, G.A., O'Brien, S.J. (1994) Rapid evolution of a heteroplasmic repetitive region in the mitochondrial control region of carnivores. *J. Mol. Evol.* 39:191-199.
9. Chaves-Fonnegra, A., Feldheim, K.A, Secord, J., Lopez, J.V. 2105 Population structure and dispersal of the coral excavating sponge *Cliona delitrix* *Molecular Ecology* 24: 1447–1466. doi: 10.1111/mec.13134
10. Sfanos, K.A.S., Harmody, D.K., McCarthy, P.J., Dang, P., Pomponi, S.A. and **Lopez, J.V.** 2005. A Molecular Systematic Survey of Cultured Microbial Associates of Deep Water Marine Invertebrates. *System Appl Microbiol.* 28 (3):242-264.

D. SYNERGISTIC ACTIVITIES

- NSF mentor to 8 NSF REU students and >10 NSU undergraduate students
- Invited member to the Southeast Florida Coral Reef Initiative (SEFCRI) Technical Advisory Committee (TAC) - <http://www.southeastfloridareefs.net/about-us/sefcricri-partners/>. Our Florida Reefs
- COSEE Florida Research Experience for Pre-Science Teachers Program mentor – pre-teachers spent one summer in the laboratory
- Our laboratory joined and became a coordinating, processing hub for receiving diverse sponge samples destined for Illumina sequencing through the Earth Microbiome Project (earthmicrobiome.org)
- Founder , consortium organizer and steering committee member of the **Global Invertebrate Genomics Alliance (GIGA)** (<http://GIGA-cos.org>), a community of scientists focused on promoting and coordinating the whole genome and transcriptome sequencing of diverse (non-nematode, non-insect) invertebrates