

Faculty



Contact Information

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Rank/Discipline

Assistant Professor
Medicinal Chemistry &
Pharmacognosy
Department of Pharmaceutical
Sciences

Education & Specialty Certification

Post-doctoral Associate, UCSD at
Scripps Institution of
Oceanography, 2014-2016;
Ph.D., The Ohio State University,
2014; M.S., UPR Medical
Sciences Campus, 2008; B.S.,
UPR Mayagüez Campus, 2000.

School of Pharmacy
Medical Sciences Campus
University of Puerto Rico

Lynette Bueno Pérez, Ph.D.

Research Areas and Active Projects

The main focus of our research is in the discovery, isolation, identification and structural elucidation of biologically active compounds from the underexplored flora of Puerto Rico. An active project in our laboratory is the exploration of Puerto Rican flora for the discovery of potential new anticancer compounds, with emphasis on neuroblastoma and breast cancer.

Publications

Bueno Pérez, L., and W. Fenical. **2017**. Accessing Marine Microbial Diversity for Drug Discovery. In: I. Kurböke, Editor. *Microbial Resources*. Academic Press/Elsevier, San Diego, CA. (Book Review Chapter, In Print).

Bueno Pérez, L., L. Pan, U. Muñoz Acuña, J. Li, H.-B. Chai, J.C. Gallucci, T.N. Ninh, E.J. Carcache de Blanco, D.D. Soejarto, and A.D. Kinghorn. **2014**. Caeruleanone A, a Rotenoid with a New Arrangement of the D-ring from the Fruits of *Millettia caerulea*. *Org. Lett.* 16:1462-1465.

Bueno Pérez, L., P.C. Still, C.B. Naman, Y. Ren, L. Pan, H.-B. Chai, E.J. Carcache de Blanco, T.N. Ninh, B.V. Thanh, S.M. Swanson, D.D. Soejarto, and A.D. Kinghorn. **2014**. Investigation of Vietnamese Plants for Potential Anticancer Agents. *Phytochem. Rev.* 13:727-739. (Review Article).

Bueno Pérez, L., J. Li, D.D. Lantvit, H.-B. Chai, L. Pan, T.N. Ninh, D.D. Soejarto, S.M. Swanson, D.M. Lucas, and A.D. Kinghorn. **2013**. Bioactive Constituents of *Indigofera spicata*. *J. Nat. Prod.* 76:1498-1504.

Bueno Pérez, L., L. Pan, E.J. Sass, S.V. Gupta, A. Lehman, A.D. Kinghorn, and D.M. Lucas. **2013**. Potentiating Effect of the Flavonolignan (-)-Hydnocarpin in Combination with Vincristine in a Sensitive and P-gp-expressing Acute Lymphoblastic Leukemia Cell Line. *Phytother. Res.* 27:1735-1738.

Lucas, D.M., P.C. Still, **L. Bueno Pérez**, M.R. Grever, and A.D. Kinghorn. **2010**. Potential of Plant Derived Natural Products in the Treatment of Leukemia and Lymphoma. *Curr. Drug Targets* 11:812-822. (Review Article).

Zorco, B.A., **L. Bueno Pérez**, and E.J. Carcache de Blanco. **2010**. Effects of ILTG on DAPK1 Promoter Methylation in Colon and Leukemia Cells. *Anticancer Res.* 30:3945-3950.

Presentations

ORAL PRESENTATIONS

Bueno Pérez, L., and W. Fenical. Discovery of New Active Compounds from Marine Bacteria. Short course entitled, "Discovering Active Compounds from Marine Organisms" offered by the Autonomous University of Baja California Sur, sponsored by The Foundation of Pharmacognosy and Complementary and Alternative Medicine. La Paz, B.C.S., Mexico, April 20-23, 2016; Invited Speaker.

Mayer, A., and **L. Bueno Pérez**. Biotechnology and Pharmacological Development of Marine Compounds. Short course entitled, "Discovering Active Compounds from Marine Organisms" offered by the Autonomous University of Baja California Sur, sponsored by The Foundation of Pharmacognosy and Complementary and Alternative Medicine. La Paz, B.C.S., Mexico, April 20-23, 2016; Invited Speaker.

Bueno Pérez, L. Phytochemical and Biological Evaluation of Two Vietnamese Plants, *Indigofera spicata* and *Millettia caerulea*. Natural Products Affinity Group (NPAG) Seminars, Scripps Institution of Oceanography, University of California San Diego, La Jolla, CA, March 13, 2015; Invited Speaker.

Soejarto, D.D., **L. Bueno Pérez**, L. Pan, S. Swanson, T.N. Ninh, and A.D. Kinghorn. Discovery of Anticancer Agents from Plants of Vietnam. University of Illinois at Chicago Cancer Center Seminar. Chicago, IL, February 13, 2014.

Bueno Pérez, L., L. Pan, D.D. Lantvit, T.N. Ninh, H.-B. Chai, J.C. Gallucci, S.M. Swanson, D.D. Soejarto, and A.D. Kinghorn. Isolation of Rotenoids from the Fruits of *Millettia caerulea*. 2013 Annual Meeting of the American Society of Pharmacognosy. St. Louis, MO, July 13–July 17, 2013. (*Planta Med.* **2013**, *79*, CL17); Invited Speaker.

Kinghorn, A.D., **L. Bueno Pérez**, P.C. Still, C.B. Naman, Y. Ren, L. Pan, H.-B. Chai, E.J. Carcache de Blanco, T.N. Ninh, B.V. Thanh, S.M. Swanson, and D.D. Soejarto. Investigating Vietnamese Plants for

Potential Anticancer Agents. 2013 Phytochemical Society of Europe Meeting. Naples, Italy, June 25-June 28, 2013. (*Phytochem. Rev.* **2014**, *13*, 727-739).

POSTER PRESENTATIONS

Soejarto, D.D., **L. Bueno Pérez**, L. Pan, S.M. Swanson, T.N. Ninh, and A.D. Kinghorn. Discovery of Anticancer Lead Compounds from Plants of Vietnam. 55th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, August 2-August 6, 2014.

Soejarto, D.D., **L. Bueno Pérez**, L. Pan, S.M. Swanson, T.N. Ninh, A.D. Kinghorn. Discovery of Anticancer Lead Compounds from Plants of Vietnam. College of Pharmacy Research Day, The Ohio State University, Columbus, OH, April 2, 2014.

Bueno Pérez, L., L. Pan, D.D. Lantvit, T.N. Ninh, H.-B. Chai, J.C. Gallucci, S.M. Swanson, D.D. Soejarto, and A.D. Kinghorn. Isolation of Rotenoids from the Fruits of *Millettia caerulea*. Chemistry-Biology Interface Program Career Development Conference, University of Illinois at Urbana-Champaign, Urbana, IL, June 5-June 7, 2013. The 46th Annual Mid-Atlantic Graduate Student Symposium (MAGSS), Columbus, OH, June 9-June 11, 2013.

Bueno Pérez, L., L. Pan, D.D. Lantvit, T.N. Ninh, H.-B. Chai, J.C. Gallucci, S.M. Swanson, D.D. Soejarto, and A.D. Kinghorn. Rotenoid Constituents from *Millettia caerulea*. College of Pharmacy Research Day, The Ohio State University, Columbus, OH, April 4, 2013. Chemistry-Biology Interface Program Symposium, The Ohio State University, Columbus, OH, April 16, 2013. The Ohio State University James National Cancer Institute Comprehensive Cancer Center (NCI-CCC) Symposium, Columbus, OH, April 26, 2013.

Bueno Pérez, L., J. Li, H.-B. Chai, L. Pan, T.N. Ninh, D.D. Soejarto, D.M. Lucas, and A.D. Kinghorn. Potential Cancer Chemotherapeutic Agents from *Indigofera spicata*. 8th Joint Meeting AFERP, ASP, GA, PSE, and SIF, New York, NY, July 28-August 1, 2012. (*Planta Med.* **2012**, *78*, 1188).

Bueno Pérez, L., L. Pan, T.N. Ninh, H.-B., Chai, D.D. Soejarto, D.M. Lucas, and A.D. Kinghorn. Cytotoxicity-guided Isolation of Flavonoids and Rotenoids from *Indigofera spicata*. The Ohio State University James National Cancer Institute Comprehensive Cancer Center (NCI-CCC) Symposium, Columbus, OH, March 8, 2012. Chemistry-Biology Interface Program Symposium, The Ohio State University, Columbus, OH, May 15, 2012. College of Pharmacy Research Day, The Ohio State University, Columbus, OH, May 17, 2012.

Bueno Pérez, L., L. Pan, E. Sass, S.V. Gupta, R.B. Edwards, A.D. Kinghorn, and D.M. Lucas. Natural Product Cytotoxicity Evaluation in an Acute Lymphoblastic Leukemia Cell Line Overexpressing P-glycoprotein. Chemistry-Biology Interface Program Symposium, The Ohio State University, Columbus, OH, May 3, 2011. 52nd Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, July 30-August 3, 2011.

MEDIA PRESENTATIONS

Bueno Pérez, L. Interview on a Natural Products Video for the College of Pharmacy, The Ohio State University, Columbus, OH, February 2013.

Bueno Pérez, L. Student Profile in the *Script* Magazine of the College of Pharmacy, The Ohio State University, Columbus, OH, October 2012.