PATRICK C. STILL, PH.D.
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DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY
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I. OVERVIEW OF CURRICULUM VITAE

A results oriented bio-analytical chemist with a research concentration in organic structure analysis. The use of Nuclear Magnetic Resonance (NMR) to elucidate the structure of organic small molecules is a primary focus of my lab. I am committed to igniting an interest in chemistry in minority undergraduate students to ensure completion of degree programs.

II. EDUCATION

Ph.D., Medicinal Chemistry
The Ohio State University, 2013
Columbus, OH
A. Douglas Kinghorn, D.Sc. Laboratory

B.S. Chemistry, Cum Laude
Virginia Commonwealth University, 2007
Richmond, VA
Sarah Rutan, Ph.D.; Wan-Ling Chiu, Ph.D. Laboratories

III. PUBLICATIONS

Complete List of Published Work in MyBibliography:
http://www.ncbi.nlm.nih.gov/sites/myncbi/1TM6mUnshGsQq/bibliography/50279962/public/?sort=date&direction=ascending

Wan-Ling Chiu, Gerald A. Peters, Germain Levieille, **Patrick C. Still**, Sarah Cousins, Bruce Osborne, and Jeff Elhai (2003). Nitrogen Deprivation Stimulates Symbiotic Gland Development in *Gunnera manicata*. *Plant Physiology* 139:224-230.

David M. Lucas, **Patrick C. Still**, Lynette Bueno Pérez, Michael R. Grever, and A. Douglas Kinghorn (2010). Potential of Plant-Derived Natural Products in the Treatment of Leukemia and Lymphoma. *Current Drug Targets* 11: 812-822. (Invited review article)

Yulin Ren, Min Wei, **Patrick C. Still**, Shunzong Yuan, Youcai Deng, Xiaozhuo Chen, Klaus Himmeldirk, A. Douglas Kinghorn, and Jianhua Yu (2012). Synthesis and Antitumor Activity of Ellagic Acid Peracetate. *ACS Medicinal Chemistry Letters* 3: 631-636.

Patrick C. Still, Bitna Yi, Ryan Pavlovicz, Tatiana F. González-Cestari, Li Pan, Hee-Byung Chai, Tran Hgoc Ninh, Djaja D. Soejarto, Chenglong Li, James R. Fuchs, Dennis McKay, and A. Douglas Kinghorn (2013). Alkaloids from *Microcos paniculata* L. With Cytotoxic and Nicotinic Receptor Antagonistic Activities. *Journal of Natural Products* 76: 243-249.

Lynette Bueno Pérez, **Patrick C. Still**, C. Benjamin Naman, Yulin Ren, Li Pan, Hee-Byung Chai, Esperanza J. Carcache de Blanco, Tran Ngoc Ninh, Bui Van Thanh, Steven M. Swanson, Djaja D. Soejarto, and A. Douglas Kinghorn (2014). Investigation of Vietnamese Plants for Potential Anticancer Agents. *Phytochemistry Reviews* 1-13.

Patrick C. Still, Tyler A. Johnson, and Phillip Crews (2014). Scrutinizing the Scaffolds of Marine Biosynthetics from Different Source Organisms: Gram-Negative Cultured Bacterial Products Enter Center Stage. *Journal of Natural Products* 77: 690-702. (Invited review article)

Christine M. Theodore, Nicholas Lorig-Roach, **Patrick C. Still**, Tyler A. Johnson, Marija Drašković, Joshua A. Schwochert, Cassandra N. Naphen, Mitchell S. Crews, Simone A. Barker, Frederick A. Valeriote , R. Scott Lokey, and Phillip Crews. (2015) Biosynthetic Products from a Nearshore-Derived Gram-Negative Bacterium Enable Reassessment of the Kailuin Depsipeptides. *Journal of Natural Products 78: 441-452.*

Nicholas Lorig-Roach, **Patrick C. Still**, Jennifer E. Compton, Mitchell S. Crews, Gabriel Navarro, Karen Tenney, and Phillip Crews. (2017). Evaluating Nitrogen-Containing Biosynthetic Products Produced by Saltwater Culturing of Several California Littoral Zone Gram-Negative Bacteria. *Journal of Natural Products. 80*: 2304-2310.

IV. RESEARCH POSITIONS HELD

UNIVERSITY OF CALIFORNIA, SANTA CRUZ, NIH POSTDOCTORAL FELLOW 05/2013-05/2015 (PHILLIP CREWS LABORATORY) – MARINE NATURAL PRODUCTS

- Specialization in chromatographic isolation of natural products from marine derived gram-negative bacteria and sponges.
- **Planned and contributed to the writing of a National Institutes of Health (NIH) Center for Advancing Natural Products Innovation and Technology (CANPIT) research grant focused on innovation in natural products drug discovery programs.**
- Facilitated UCSF Sandler Neuroscience Center collaboration to find compounds from gram-negative bacteria with potential as glucagon-like peptide-1 receptor (GLP-1R) agonists.
- Served as instructor for 30 undergraduate students in the Minority Baccalaureate Bridge to the Biomedical Sciences Program (ACCESS).

Key Accomplishments:

- **Awarded the National Institutes of Health (NIH) Postdoctoral Research Fellowship (PA-12-149), University of California, Santa Cruz (2013) in the amount of $129,969.00, which resulted in one invited review article, one in-press research article, and the mentoring of six undergraduate chemists.**
- Awarded the Carl Storm Underrepresented Minority Travel Fellowship to attend the Gordon Research Conference in Ventura, CA (2014) in the amount of $800.00, which resulted in a poster presentation of research results, and communication with research collaborators.
- Invited to Howard University (HU), Washington, DC (August 2014) to present research proposal to harness HUGIN NGO for the discovery of new bioactive chemical compounds.

THE OHIO STATE UNIVERSITY COLLEGE OF PHARMACY, RAYMOND DOSKOTCH GRADUATE FELLOW 05/2007-04/2013 (A. DOUGLAS KINGHORN LABORATORY) – PLANT NATURAL PRODUCTS

- Researched the potential of plant-derived compounds from the rainforests of Vietnam as potential anti-cancer and CNS active therapeutics.
- Planned and assisted in the writing of NIH grant proposals including program-project P01 funding opportunities.
- Conducted recitation sessions in Biochemistry I, II (461); Medicinal Chemistry I (601); Drug Design I (711); and Isolation Techniques in Research (789).
- Ph.D. thesis dissertation title: Cytotoxic alkaloids from *Microcos paniculata* with activity at neuronal nicotinic receptors (Medicinal Chemistry, 2013)

Key Accomplishments:

- **Selected for participation in the Mary Frances Picciano Dietary Supplement Research Practicum at the National Institutes of Health, Office of Dietary Supplements, Bethesda, MA, to review toxicological evaluations, exposure assessments, food safety, and conformity with the Food Safety Modernization Act (FSMA) which resulted in an in-depth perspective on the need to standardize and control dietary supplement ingredients.**

- Presented an oral lecture at the 2012 International Congress on Natural Products Research (ICNPR) in New York, NY.

DAVID F. INGRAHAM UNDERGRADUATE FELLOW IN ANALYTICAL CHEMISTRY, VIRGINIA COMMONWEALTH UNIVERSITY 05/2003-05/2007 (SARAH RUTAN LABORATORY) – CHEMOMETRICS

- Researched effects of nitrogen starvation on the *Gunnera-Nostoc* symbiosis.
- **Quantified flavonoids in *Gunnera manicata* L. using HPLC-DAD detection and chemometric methods implemented in the MatLab® programming environment.**

Key Accomplishments:
- Presented research at the Richmond Chromatography Group monthly discussion section.

V. FIELD-SPECIFIC EDITORIAL POSITIONS

AMERICAN CHEMICAL SOCIETY (ACS) PUBLICATIONS, JOURNAL OF NATURAL PRODUCTS CENTRAL OFFICE, COLUMBUS, OH 2009-2010

- Operated the American Chemical Society (ACS) Paragon Plus manuscript submission system for publication of peer-reviewed manuscripts.
- Assigned submitted manuscripts to associate editors based on instructions by the Editor-in-Chief.

Key Accomplishments:
- Selected for attendance at the 2010 Graduate Student/Postdoc, American Chemical Society (ACS) Summer Institute for Technology Development in Washington, DC and presented a proposal for a cross-platform compatible format for chemical structures to be developed by ACS using cloud- computing.

NATURAL PRODUCT REPORTS, ROYAL SOCIETY OF CHEMISTRY, REVIEWER, 2016

- Served as manuscript reviewer for Natural Products Reports in the area of NMR spectroscopy and general structure elucidation.

Key Accomplishments:
- Provided feedback on one manuscript in the period from January 2016 to October 2017.

JOURNAL OF NATURAL PRODUCTS, AMERICAN CHEMICAL SOCIETY (ACS) PUBLICATIONS, REVIEWER, 2017

- Served as manuscript reviewer for J. Nat. Prod. in the area of NMR spectroscopy and general structure elucidation.

Key Accomplishments:
- Provided feedback on one manuscript in the period from January 2017 to October 2017.

MARINE DRUGS, MULTIDISCIPLINARY DIGITAL PUBLISHING INSTITUTE, REVIEWER, 2016-2017

- Served as manuscript reviewer for Mar. Drugs. in the area of NMR spectroscopy and general structure elucidation.

Key Accomplishments:
- Provided feedback on two manuscripts in the period from December 2016 to October 2017.

VI. RESEARCH FUNDING AWARDED

- **American Society of Plant Biologists Summer Research Grant**, Richmond, VA (2005) - $5000.00
- **David F. Ingraham Fellowship in Chemistry**, VCU Department of Chemistry, Richmond, VA (2006) - $3000.00
- **National Capital Area Federation of Garden Clubs Scholarship**, Washington, DC (2006-2007) - $4000.00
- **Raymond Doskotch Fellowship in Natural Products Chemistry**, The Ohio State University College of Pharmacy, Columbus, OH (2010) – *supported one year of graduate education*
- **American Society of Pharmacognosy Graduate Student Travel Award**, New York, NY (2012) - $800.00
- **National Institutes of Health (NIH) Postdoctoral Research Fellowship (PA-12-149)**, University of California, Santa Cruz (2013) - $129,969.00
- **Carl Storm Underrepresented Minority Travel Fellowship**, Gordon Research Conference, Ventura, CA (2014) - $800.00
- **Faculty Sponsored Research and Creative Activity Support Program Award** (Extramural Grant Proposal submission), California State University, Dominguez Hills, Carson, CA (2016) - $5500.00
- **Faculty Resources Grant, Graduate Writing Institute for Excellence (GWIE)** California State University, Dominguez Hills, (2016) – *provided support for graduate student, Mr. Anthony J. Diaz during the Spring 2016 academic term*
- **California State University Program for Education and Research in Biotechnology (CSUPERB), Presidents' Commission Scholar Award**, Mentor for Ms. Mahsa Madinehei, *Screening Natural Products for Inhibitors of Histone Demethylases from Plants.* Carson, CA (2017) - $8000.00
- California State University Program for Education and Research in Biotechnology (CSUPERB), California State University, **NSF iCorp microgrant** (2017) - $1,000.00
- **Research, Scholarship and Creative Activity Grant (RSCA)**, *NMR Methods in the Elucidation of Compounds from Plants.* California State University, Dominguez Hills, Carson, CA (2017) - $5500.00
- **Norris Foundation Summer Mini-Grant**, College of Natural and Behavior Sciences, *Screening Natural Products for Inhibitors of Histone Demethylase in Brain Glioma Cells.* California State University, Dominguez Hills, Carson, CA (2017) - $3,000.00
- **1SC2 GM122721-01** *Discovery of Natural Products from Botanical Sources*, National Institutes of Health (NIH), National Institute of General Medical Sciences (NIGMS) (2017-2020) - $438,000.00

VII. SCIENTIFIC ORAL AND POSTER PRESENTATIONS

Chiu,W.L., Peters, G.A., Levieille, G., **Still, P.C.**, Cousins,S., Osborne, B., and Elhai, J. (2004). The Role of Flavonoids in the *Gunnera-Nostoc* Symbiosis. University of Maryland Plant Molecular Biology Symposium (ATRIUM–*Arabidopsisthaliana* Research Initiative at University of Maryland). College Park, MD, USA. (poster presentation)

Still, P.C., Rutan, S.C., and Chiu, W.L. (2006). Chemical Profiling and Quantitation in the *Gunnera manicata* Stem Gland. Virginia Commonwealth University Department of Chemistry Graduate Poster Session. Richmond, VA, USA. (poster presentation)

Still, P.C., Pan, Li, Ninh, T.N., Soejarto, D.D., Chai, H., Fuchs, J.R. Carcache de Blanco, E.J., and Kinghorn, A.D. (2011). 52nd Annual Meeting of the American Society of Pharmacognosy. San Diego, CA, USA. (poster presentation)

Still, P.C., Yi, B., Pavlovicz, R., González-Cestari, T. F., Pan, L., Chai, H.-B., Ninh, T. H., Soejarto, D. D., Li, C., Fuchs, J. R., McKay, D., Kinghorn, A. D. Alkaloids From *Microcos paniculata* With Cytotoxic and Non-competetive Nicotinic Receptor Antagonistic Activities. International Congress on Natural Products Research (ICNPR) (2012) New York, NY. (oral presentation)

Still, P.C. Chemical Look-a-Likes Across Sponges, Bacteria, and Plants: An Old Concept Inspires New Research. American Chemical Society Western Regional Meeting (2014) Santa Clara, CA. (oral presentation)

Still, P.C., Niadj, L., Milian-Lobo, L., Valeriote, F., Shamloo, M., Whistler, J., and Crews, P. Amalgamating Neurobiological Experimental Design with *Agelas*-Derived Cyclobutane Alkaloids to Study GRCR Receptor Modulation (2014). Gordon Research Conference on Marine Natural Products. Ventura, CA, USA. (poster presentation)

Still, P.C. Structurally Diverse Natural Products in Drug Discovery (2017). Southern California Users of Magnets (SCUM), April 2017 Meeting, USC Medical Center (invited talk)

VIII. RESEARCH SYMPOSIA ATTENDED

- Southern California Users of Magnets (SCUM), April 2017 Meeting, USC Medical Center (2017)
- Gordon Research Conference on Marine Natural Products, Ventura, CA (2015)
- American Chemical Society (ACS) Western Regional Meeting, Santa Clara, CA (2013)
- The Mary Francis Picciano Dietary Supplement Research Practicum, NIH, Washington, DC (2012)
- 52nd Annual American Society of Pharmacognosy Meeting, San Diego, CA (2011)
- 51st Annual American Society of Pharmacognosy Meeting, St. Petersburg, FL (2010)
- 4th Interim Meeting, American Society of Pharmacognosy, Oxford, MS (2008)
- Richmond Chromatography Discussion Group Symposium (2006)
- Proctor & Gamble Undergraduate Research Colloquium (2006)
- Harvard University Molecular Biology Research Symposium (2005)
- University of Maryland Plant Molecular Biology Symposium (2004)

IX. RESEARCH HONORS RECEIVED

- American Chemical Society (ACS) Publications Certificate of Innovation, Washington, DC Summer (2010)
- Raymond Doskotch Fellowship in Natural Products Chemistry, Division of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, The Ohio State University (2010)
- American Society of Pharmacognosy Graduate Student Travel Award, New York, NY (2012)
- National Institutes of Health (NIH) Postdoctoral Research Fellowship (PA-12-149), University of California, Santa Cruz (2013)
- Faculty Resources Grant, California State University, Dominguez Hills, *Graduate Writing Institute for Excellence (GWIE) Research Assistant Support* (2016)

X. PROFESSIONAL AFFILIATIONS

- American Chemical Society (ACS)
- American Society of Pharmacognosy (ASP)
- National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE)
- National Association of Advisors for the Health Professions, Inc. (NAAHP)
- National Association of Medical Minority Educators, Inc. (NAMME)

XI. TEACHING ACHIEVEMENTS

- **Faculty mentor for undergraduate research in the California State University Program for Education and Research in Biotechnology (CSUPERB):** Mentored Presidents' Commission Scholar Award recipient, Ms. Mahsa Madinehei in the grant funded proposal, *Screening Natural Products for Inhibitors of Histone Demethylases from Plants.* (2017)

- **Submitted grant proposal for Jean Dreyfus Lectureship for Undergraduate Institutions:** A proposal to establish an undergraduate lectureship series in the Chemistry Department. (2017)

XII. PROFESSIONAL REFERENCES

Dr. Phillip Crews
Distinguished Professor of Chemistry
University of California, Santa Cruz Santa Cruz, CA 95060
831-459-2603
Length of acquaintance is two years.
Dr. Crews served as my postdoctoral advisor at UC Santa Cruz.

Dr. A. Douglas Kinghorn, DSc
Jack L. Beal Professor and Chair
The Ohio State University
College of Pharmacy
Columbus, OH 43210
614-247-8094
Length of acquaintance is five years.
Dr. Kinghorn served as my Ph.D. thesis advisor at The Ohio State University.

Dr. Esperanza J. Carcache de Blanco
Associate Professor
The Ohio State University
College of Pharmacy
Columbus, OH 43210
614-247-7815
Length of acquaintance is five years.
Dr. Carcache de Blanco served on my Ph.D. defense committee at The Ohio State University.

Dr. Karl Werbovetz
Professor and Chair
The Ohio State University
College of Pharmacy
Columbus, OH 43210
614-292-5499
Length of acquaintance is five years.
I served as a teaching assistant in Dr. Werbovetz's Biochemistry II (Metabolism) courses within the College of Pharmacy.

Dr. Nicole C. Kwiek
Clinical Assistant Professor
The Ohio State University
College of Pharmacy
Columbus, OH 43210
614-688-5951
Length of acquaintance is five is 5 years.
I served as a teaching assistant in Dr. Kwiek's Biochemistry course within the College of Pharmacy.