**Nicholas G. Paciaroni – Curriculum Vitae**

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**Education**

2013 – Present Ph.D., Medicinal Chemistry

University of Florida, Gainesville, FL.

2009 – 2013 B.S., Chemistry, *cum laude*

Clemson University, Clemson, SC.

**Research Experience**

2013 – Present Graduate Research Assistant

University of Florida, Department of Medicinal Chemistry, Gainesville, FL.

Advisor: Prof. Robert W. Huigens III

2011 – 2013 Undergraduate Research Assistant

Clemson University, Department of Chemistry, Clemson, SC.

Advisor: Prof. Daniel C. Whitehead

2011 Quality Control Laboratory Technician

Ortec Inc., Piedmont, SC.

Advisor: Dr. Allen Parks

**Publications**

**Paciaroni, N. G.**; Ratnayake, R.; Matthews, J. H.; Norwood IV, V. M.; Arnold, A. C.; Dang, L. H.; Luesch, H.; Huigens III, R. W. “A Tryptoline Ring Distortion Strategy Leads to Complex and Diverse Biologically Active Molecules from the Indole Alkaloid Yohimbine.” *Chem. Eur. J.* **2017**, *23*, 4327.

* *Selected for Chem. Eur. J. cover art*
* *Featured article at UF College of Pharmacy:* <http://pharmacy.ufl.edu/2017/02/01/college-of-pharmacy-researchers-develop-novel-ring-distortion-strategy-to-fight-diseases/>

**Paciaroni, N. G.**; Borrero, N. V.; Rocca, J. R.; Huigens III, R. W. “Rapid Synthesis of Phenazine-1-Carboxylic Acid Derived Small Molecules from Diverse Anilines: Privileged Structures for Discovery.” *J. Org. Med. Chem.* **2015**, *1*, 67.

Garrison, A. T.; Bai, F.; Abouelhassan, Y.; **Paciaroni, N. G.**; Jin, S.; Huigens III, R. W. “Bromophenazine Derivatives with Potent Inhibition, Dispersion and Eradication Activities against *Staphylococcus aureus* Biofilms.” *RSC Adv.* **2015**, *5*, 1120.

**Skills**

* Synthetic organic chemistry
* Heterocyclic chemistry (phenazines, indoles)
* Metal-catalyzed cross couplings
* Advanced NMR spectroscopy
* Hit-to-lead synthesis design
* Medicinal chemistry
* HPLC, LC-MS
* Antiplasmodial agents
* Antiproliferative agents
* Pharmacokinetics

**Presentations and Proceedings**

**Paciaroni, N. G.**; Ratnayake, R.; Perry II, D. L.; Matthews, J. H.; Norwood IV, V. M.; Chakrabarti, D.; Luesch, H.; Huigens III, R. W. “Ring Distortion of Yohimbine Leads to Diverse Biological Discoveries.” Poster presented at the UF College of Pharmacy Faculty Mixer, October 2017.

**Paciaroni, N. G.**; Ratnayake, R.; Perry II, D. L.; Matthews, J. H.; Norwood IV, V. M.; Chakrabarti, D.; Luesch, H.; Huigens III, R. W. “Ring Distortion of Yohimbine Leads to Diverse Biological Discoveries.” Oral presentation at the UF Center for Natural Products, Drug Discovery and Development (CNPD3) Symposium, September 2017.

* *Awarded 1st place in the graduate student oral presentation competition*

**Paciaroni, N. G.**; Ratnayake, R.; Perry II, D. L.; Matthews, J. H.; Norwood IV, V. M.; Chakrabarti, D.; Luesch, H.; Huigens III, R. W. “Ring Distortion of Yohimbine Leads to Diverse Biological Discoveries.” Poster presented at the UF Center for Natural Products, Drug Discovery and Development (CNPD3) Symposium, September 2017.

Perry II, D. L.; **Paciaroni, N. G.**; Norwood IV, V. M.; Roberts, B. F.; Collins, J.; Eldeeb, M.; Chakrabarti, D.; Huigens III, R. W. “Discovery of Novel Antimalarials through Ring Distortion: Teaching Old Drugs New Tricks.” Poster presented at the 28th Molecular Parasitology Meeting, September 2017.

Huigens III, R. W.; Garrison, A. T.; Abouelhassan, Y.; Basak, A.; Yang, H.; Norwood IV, V. M.; Burch G. M.; **Paciaroni, N. G.** “Efforts to Expand Our Antibiotic Arsenal to Eradicate Persistent Bacterial Biofilms.” Poster presented at the 253rd American Chemical Society National Meeting and Exposition, April 2017.

**Paciaroni, N.G.**; Huigens III, R. W. “Tryptoline-Based Ring Distortion of Yohimbine: Rapid Synthesis of Diverse and Complex Compounds.” Poster presented at the UF Graduate Student Research Day, April 2017.

**Paciaroni, N.G.**; Huigens III, R. W. “Tryptoline-Based Ring Distortion of Yohimbine: Rapid Synthesis of Diverse and Complex Compounds.” Poster presented at the UF Center for Natural Products, Drug Discovery, and Development (CNPD3) Symposium, April 2016.

Huigens III, R. W.; Jin, S.; Garrison, A. T.; Bai, F.; **Paciaroni, N. G.**; Borrero, N. V.; Rocca, J. R. “Phenazine Antibiotic Inspired Discovery of Antibacterial and Antibiofilm Agents.” Poster presented at the UF College of Pharmacy Research Showcase, February 2014.

**Awards**

2017 CNPD3 Drug Discovery Symposium oral competition Award

2014 – 2016 Charlotte M. Liberty Fellowship

2013 Clemson University Undergraduate Award in Organic Chemistry

**Professional Societies**

Since 2015 American Association of Pharmaceutical Scientists (AAPS)

Since 2015 American Association of Colleges of Pharmacy (AACP)

Since 2011 Order of Omega

Since 2011 Phi Beta Lambda

**Teaching Experience**

2017 Drug Design 1: Reaction Mechanisms of Diverse Drug Warheads (PHA 6447)

Teaching Assistant, College of Pharmacy, University of Florida

2014 Medicinal Chemistry II (PHA 5438)

Teaching Assistant, College of Pharmacy, University of Florida

2013 Fundamentals of Medicinal Chemistry (PHA 5433)

Teaching Assistant, College of Pharmacy, University of Florida

**Provisional Patents**

Huigens III, R. W.; **Paciaroni, N. G.** “Analogs of Yohimbine and Uses Thereof.” Filed with the University of Florida: Nov. 29, 2016.

**References**

**Prof. Robert W. Huigens III**

Assistant Professor

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**Prof. Aaron Aponick**

Associate Professor

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**Prof. Hendrik Luesch**

Professor, Department Chair

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