JUNIOR GONZALES, PhD

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EDUCATION

2011-2017 **Ph.D. in Chemistry**, The Graduate Center of The City University of New York, CUNY

2015-2016 **Certificate in Clinical Research,** Weill Cornell Medical College, USA

2008-2011 **B.A., Chemistry,** Hunter College, CUNY, USA

Thesis: Phytochemical and Pharmacological Analysis of leonurus leonetis

Parallel Research Project: Synthesis and 5-HT_{2A} Receptor Binding Profile of Novel (\pm)

Nantanine Analogs

PROFESSIONAL EXPERIENCE

2011-Present Supramolecular Photonics, Chemistry Graduate Researcher

Department of Chemistry of Hunter College-CUNY

Laboratory of Dr. Michael Drain

New York, New York

2010-2011 Medicinal Chemistry Research Assistant

Department of Chemistry of Hunter College-CUNY

Laboratory of Dr. Wayne Harding

New York, New York

2010 Crystallography Research Assistant

Center of Molecular Cardiology, College of Physicians and Surgeons

Columbia University, Laboratory of Dr. Filippo Mancia

New York, New York

2009 Biochemistry Research Assistant

Center of Molecular Cardiology, College of Physicians and Surgeons

Columbia University, Laboratory of Andrew Marks, MD

New York, New York

2008 DEP Research Assistant

Department of Environmental Protection (DEP) Wards Island Wastewater Treatment Plant

Wards Island, New York

2006-2007 Analytical Chemistry Research Assistant

Queensborough Community College, Chemistry Department Research with Dr. Paris Svoronos and Dr. Joseph Bertorelli

Bayside, New York

PROFESSIONAL APPOINTMENTS

2015-present Adjunct Assistant Professor – Undergraduate Organic Chemistry I

Department of Chemistry of Borough of Manhattan Community College (CUNY)

New York, New York

08/2013 Adjunct Faculty (Lecturer) – Undergraduate Organic Chemistry I

Department of Chemistry of Passaic County Community College

Paterson, New Jersey

2012-present Adjunct Assistant Professor, Introduction to Organic Chemistry

Organic Chemistry I and II Laboratories

Physical Chemistry (Substitute)

Department of Chemistry of Hunter College

New York, New York

FELLOWSHIPS, TRAINEESHIPS AND FUNDING

2015-2017	Clinical and Translational Science Center (CTSC) Fellowship (\$27000.00 per year)
2014-2015	NFS, Integrative Graduate Education & Research Traineeship–IGERT Traineeship (\$15000.00)
2012-2015	NIH, Research Initiative for Scientific Enhancement – RISE Fellowship (\$42000.00)
2012	Ford Fellowship (Applied) and Louis Stoke Fellowship (Applied and Interviewed)
2008-2010	NIH, Minority Access to Research Careers – MARC Fellowship (\$25000.00)
2006-2007	NIH, Research Initiative for Minority Students – RIMS Fellowship (\$2000.00)

AWARDS

The Morgan Scholarship

2010 The Belle Vader Mascots Award for Undergraduate Research

2009 The ABRCMS Award for The Best Poster Presentation

BIBLIOGRAPHY

PEER-REVIEWED PUBLICATIONS

- 1. "New Aporphinoid 5-HT_{2A} and α_{1A} Antagonists via Structural Manipulations of Nantenine." Chaudhary, S.; Ponnala, S.; LeGendre, O.; **Gonzales, J. A.**; Navarro, H. A.; Harding, W. W. *Bioorg Med Chem* **2011**, 18, (15), 5562-75.
- 2. "Evaluation of structural effects on 5-HT2A receptor antagonism by aporphines: identification of a new aporphine with 5-HT2A antagonist activity." Ponnala, S.; **Gonzales, J. A.**; Kapadia, N.; Navarro, H. A.; Harding, W. W. *Bioorg Med Chem* **2014**, 10, (15), 5562-75.
- 3. "Facile synthesis of chlorin bioconjugates by a series of click reactions." **Gonzales, J.**, Bhupathiraju, N. V., Perea, W., Chu, H., Berisha, N., Bueno, V., Dodic, N., Rozenberg, J., Greenbaum, N. L., Drain, C. M., Chem Commun (Camb), **2017**. **53**(26): p. 3773-3776.
- 4. "Divergent Synthesis of two New Chlorins under Thermal and Microwave Conditions." **Gonzales, J.**; Bhupathiraju, N. V. S. D. K., Man, W., Hart, D., Maranan, M., Drain, M. C. *Tet. Lett.* (2017, under preparation).
- 5. "Synthesis of chlorin-folic acid conjugates for PET imaging." **Gonzales, J.**; Bhupathiraju, N. V. S. D. K., Carney, B., Hart, D., Maranan, M., Drain, M. C. *Bioconjugate Chem.* (2017, under preparation).

PATENTS

Patent Nº **62/251,828**

Chlorins and Phthalocyanines for Biological Applications

PROFESSIONAL PRESENTATIONS (TALKS)

- 01. **Gonzales**, **J. 2017**. Facile Synthesis of Chlorin Bioconjugates by a series of click reactions, Hunter College-Chemistry Department, (Thesis Defense Seminar), New York, NY, Mar. (2017)
- 02. **Gonzales, J. 2017**. Photosensitizer Chlorin Drug for Diagnostic and PDT Treatment of Dengue, Weill Cornell Medical College, (Research in progress Lunch Series), New York, NY, Feb. (2017)
- 03. **Gonzales, J. 2016**. Synthesis of Chlorin using microwaves for applications in nanomedicine, Borough of Manhattan Community College Seminar Day, New York, NY, Apr. (2016)
- 04. **Gonzales, J. 2015**. How to Read a Scientific Paper, Hunter College of The City University of New York, Talk to Undergraduates, New York, NY, Feb, (2015)
- 05. **Gonzales, J. 2014**. Chlorins for Diagnostic, Imaging and Therapy of Cancer, Graduate Center of The City University of New York, Seminar Day, New York, NY, Dec, (2014)

RESEARCH PRESENTATIONS

Trnaslational Science 2017, Association for Clinical and Translational Science. Washington, DC "Synthesis of a NH-chlorin, NMe-chlorin and a chlorin dimer using a distinct ylide"	Apr. (2017)
Gordon Conferences, Salve Regina University, New Port, Rhode Island "Divergent Synthesis of Chlorins with Distinct Azomethine Ylide Formation"	Jun. (2016)
50 th National ACS, Western Regional Meeting (WRM), Boston, Massachusetts "Preparation of Chlorins for Biomedical Applications"	Aug. (2015)

CHI 14 (Cambridge Healthech Institute Conference), San Diego, California	
"Design and Synthesis of Soluble Chlorins for Detection, Imaging and target-therapy of Cancer"	Apr. (2014)

ABRCMS 10 (Annual Biomedical Research Conference for Minority Students), Charlotte, North Car	rolina
"Purification and Crystallization of Integral Membrane Proteins, the NYCOMPS project"	Nov. (2010)

14th Annual Conference of The National Hispanic Medical Association, Washington, DC	
"Nitrosylation of Type 2 Ryanodine Receptor in Arrhythmia post- ischemia Reperfusion"	Mar. (2010)

ABRCMS 09 (Annual Biomedical Research Conference for Minority Students), Phoenix, Arizona	
"The Role of Type 2 Ryanodine Receptor in Arrhythmia post- ischemia Reperfusion"	Nov. (2009)

57 th Undergraduate Research Symposium (URS) ACS, PACE University, New York	
"Phytochemical Analysis of Rhytidophyllum Tomentosum and Leonurus Leonetis"	May (2009)

42 nd National ACS, Western Regional Meeting (WRM) Las Vegas, Nevada	
"Ionization Constant of Carboxylic Acids using Low-Field NMR"	Sep. (2008)

236th National ACS (American Chemical Society) Philadelphia, Pennsylvania	Aug. (2008)
"Determination of the Ionization Constant of Carboxylic Acids with Freezing Point Measurement	ts"

EXTRACURRICULAR ACTIVITIES:

2010-2016	MBRS Admission Committee Member
2008	Tutor for Minority Students at Borough of Manhattan Community College

REFERENCES:

Dr. Michael Drain (Hunter College, cdrain@hunter.cuny.edu) Dr. Wayne Harding (Hunter College, wayne.harding@hunter.cuny.edu) Andrew Marks, MD (Columbia University, arm42@columbia.edu)