

Victoria G. Rand

Carolina Health Informatics Program
The Graduate School
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina 27599

721 West Oak Dr.
Cookeville, Tennessee 38501
(931) 6446035
E-Mail: vrand96@gmail.com

ACADEMIC EXPERIENCE

The University of North Carolina at Chapel Hill	Masters in Biomedical Health Informatics Expected Graduation: July 2018
Tennessee Technological University	B.S. in Biochemistry Graduated May 2017 GPA: 3.62 Distinction in the Major <i>In cursu honorum, Cum Laude</i>
Vanderbilt University Medical Center	Summer 2016 Research Intern in the Osheroff Laboratories
The University of Cambridge – Emmanuel College	Summer 2015 Study abroad through the University of Tennessee Honors College
Cookeville High School	Graduated May 2014 International Baccalaureate Diploma Recipient
Lipscomb University	Summer Scholar 2013 – Pre-Med Focus

ORGANIZATIONAL AFFILIATIONS

National Member, the American Chemical Society (2014- 2017)
National Member, the American Society of Biochemistry and Molecular Biology (2014- 2017)
Member, Tennessee Technological Chem Med Club (2015- 2017)
Member, American Quarter Horse Association (2006- 2017)
Member, Tennessee Quarter Horse Association (2006 – 2017)

RESEARCH

Articles in Process

Victoria G. Rand, Lana Ngo, Patrick Kent, Jeffrey Rice, William R. Carroll, Deidra Gerlach, Elizabeth T. Paphis, Xiaohua Jiang, and Edward C. Lisic, “Cu(II) Propionyl-Thiazole Thiosemicarbazone Complexes: Crystal Structure, Inhibition of Human Topoisomerase IIa and Activity Against Breast Cancer Cells”

*submitted July 7, 2017 for publication to *Polyhedron*

Poster Presentations

Victoria Rand, Jenny Conner, Shawna Simpson, Amanda Koch, and Edward C. Lisic, "Synthesis, NMR characterization, and MIC studies of a New Series of Thiazole-TSC Ligands and their Pd²⁺ and Cu²⁺ metal complexes," Poster Session, American Society of Biochemistry and Molecular Biology, Boston, MA, March 27, 2015- April 1, 2015

Victoria Rand, William Morris, Xiaohua Jiang, and Edward C. Lisic, "Activity of a new series of alpha-(N)-heterocyclic thiosemicarbazone ligands and their Cu(II) complexes against Human Topoisomerase I α ," Poster Session, American Society of Biochemistry and Molecular Biology, San Diego, CA, April 1-6, 2016 (received the Outstanding Research Award for Chemical Biology)

Leys JE, Dunham KE, Oliver J, Schiller EE, Rush EE, Kimrey JT, Proctor M, Reyes M, Mayberry D, Alonge NM, Elmore ER, Rand V, Stephenson K, Walker DM (2016). "Sneaky Sally: detection of terrestrial small-body salamander eDNA and implications for biodiversity conservation of non-aquatic amphibians." Research participant; did not present, Ecological Society of America Conference, Fort Lauderdale, FL, August 7-12, 2016.

Oral Presentations

Victoria Rand, Lana Ngo, Xiaohua Jiang, and Edward C. Lisic, "Synthesis of a new series of alpha-(N)-heterocyclic thiosemicarbazone ligands and their Cu²⁺ + metal complexes: Biological activity against human topoisomerase II α and breast cancer cells." Oral Presentation, American Chemical Society, San Francisco, CA, April 2-6, 2017

Grants

Undergraduate Research and Creative Activity (URECA!) Mini- Grant for Synthesizing a New Series of Thiazole-PTZ Ligands and their Pd²⁺ and Cu²⁺ metal complexes- 2015/2016

URECA! Travel Grant – 2017, 2016, 2015

American Society of Biochemistry and Molecular Biology Undergraduate Affiliates Network Travel Grant- 2016, 2015

Other Works and Laboratory Affiliations

Patent invention disclosure submitted to Tennessee Technological University for research developed in the laboratory of Dr. Edward C. Lisic's in the department of chemistry

Performing drug trial assays in the laboratory of Dr. Xiaohua Jiang at Tennessee Technological University- Fall 2016

Summer 2016 Intern at Vanderbilt University Medical Center working with *Bacillus anthracis* on a drug mechanism study under Dr. Neil Osheroff in the Osheroff Laboratories in the biochemistry department

PROFESSIONAL ACTIVITIES

Professional Activities

- Attended Experimental Biology National Meeting through ASBMB – 2016, 2015
- Attended American Chemical Society National Meeting - 2017

Professional Experience and Development

- Cardiac thoracic surgery shadow under Dr. Timothy Powell- 2014 for 30 hours

- Neuro surgery shadow under Dr. Joseph Jestus- 2014 for 35 hours
- Cookeville Regional Medical Center Pharmacy shadow- 2014 for 60 hours
- Pediatrics shadow under Dr. Jim Batson and Dr. Carrie Loghry- 2016 for 12 hours
- Ear Nose and Throat Clinic under Dr. Grant Rohman- 2016 for 6 hours
- Allergy and Asthma Clinic shadow under Dr. Erin Rohman- 2016 for 25 hours
- OBGYN shadow under Dr. Paige Gernt- 2017 for 15 hours
- Oncology shadow under Dr. Venumadhav Kotla- 2017 for 18 hours
- Weekly Volunteer at Cookeville Pregnancy Clinic- Jan. 2017- Present

Honors and Recognitions

- American Society of Biochemistry and Molecular Biology National Award for Outstanding Research in Chemical Biology- 2016
- Department of Chemistry Inorganic Chemist of the Year Award – 2015/2016
- Department of Chemistry Scholarship Recipient- 2016/2017, 2015/2016, 2014/2015
- University Academic Scholarship Recipient- 2016/2017, 2015/2016, 2014/2015
- International Baccalaureate Full Diploma Recipient- 2014
- Tennessee Quarter Horse Association State All Around Reserve Youth Champion- 2014, 2010
- Tennessee Quarter Horse Association State Event Champion- 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008
- American Quarter Horse Association National Championships 5th place- 2014

Public Service

- Reviewer – *Journal of Creative Inquiry* (under development) - 2016
- Board of Directors, Tennessee Quarter Horse Association, January 2014- January 2017.
- Chairman of the Communications Committee, Tennessee Quarter Horse Association – January 2015- January 2017
- President, Tennessee Quarter Horse Youth Association – January 2014- January 2016
- Volunteer Spanish translator for Washington Avenue Baptist Church Community Harvest Carnival- 2016, 2015, 2014, 2013

Academic Committees & University Service

- Judiciary Council Member, Tennessee Technological University Supreme Court, 2016/2017, 2015/2016
- Fundraising Chair, American Chemical Society local chapter, Fall 2015
- Publicity Coordinator, Golden Helix 5K- 2015
- Treasurer, American Society of Biochemistry and Molecular Biology local chapter- 2015/2016
- University Pre-professional Peer Mentor- 2016/2017, 2015/2016
- Student worker in President Oldham's Office – 2014- 2017
- Student Judge, Tennessee Technological University Golden Impacts Challenge- 2016, 2015