

Logan T. Neel

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EDUCATION

- Auburn University, Harrison School of Pharmacy**, Auburn, AL Fall 2016-Present
Doctorate of Philosophy, Medicinal Chemistry
GPA: 3.7
Dissertation: Cannabinoid receptor 2 (CB₂) is a potential therapeutic target for neuropathic and inflammatory pain. Modeling program, Schrodinger, was utilized in order to computationally model the CB₂ receptor in order to design selective CB₂ agonists.
- Virginia Commonwealth University**, Richmond, VA Fall 2011-Fall 2015
Bachelor of Science, Chemistry
GPA: 3.7

RESEARCH EXPERIENCE

- Auburn University Harrison School of Pharmacy**, Auburn, AL. Summer 2016
Department of Medicinal Chemistry
Dr. Forrest Smith Lab
- Acquired basic knowledge of NMR and GC/MS instrumentation
 - Assisted in organic synthesis of amino alkyl indoles
 - Acquired knowledge in computational chemistry programs, Pymol and Sybyl
 - Attended Medicinal Chemistry II lectures as observer
- Auburn University Harrison School of Pharmacy**, Auburn, AL. Summer 2015
Department of Pharmacology
Dr. David Riese Lab
- Acquired basic wet lab techniques
 - Worked with cell culture
 - Assisted in programming Beckman 4000 robot to run automatic simulations and ELISAs
 - Manipulated DNA sequences
 - Learned how to make LB agar plates for growth of bacteria
 - Learned appropriate disposal of pharmaceutical drugs and waste

AWARDS AND HONORS

Dean's List (Fall 2011-Fall 2015)

CERTIFICATIONS AND TRAINING

Laboratory safety (2016-present)
Biological Safety (2016-present)
Introduction to Hydrofluoric Acid (2016-present)
Introduction to potentially explosive chemicals (2016-present)
Introduction to water reactive chemicals (2016-present)

Pyrophoric Liquids Safety (2016-present)
Chemical Fume Hood (2016-present)
Protecting Children: Identifying and Reporting Sexual Misconduct (2016-present)
Pharmacy Technician (2015)

TEACHING/MENTORING EXPERIENCE

Graduate Teaching Assistant

Auburn University Harrison School of Pharmacy, Auburn, Al.

- Contemporary Aspects of Pharmacy Practice (CAPP) Lab
- Integrated Learning Experience (ILE) Lab

Fall 2016- Spring 2018
Fall 2018-Present

Teaching Assistant

Virginia Commonwealth University, Department of Biology, Richmond, Va.

- Cellular and Molecular Biology
- Biochemistry I

Spring 2015, Fall 2015
Fall 2015

PROFESSIONAL ORGANIZATIONS AND ACTIVITIES

American Association of Pharmaceutical Scientists, Phi Sigma Pi National Honor Fraternity,
The National Society of Collegiate Scholars, American Chemical Society, Omicron Delta Kappa

VOLUNTEER WORK

Volunteer for Newnan Coweta Humane Society (2018-present)

Volunteer for Lee County Humane Society (2016)

Assisted in mission work at Hunting Ridge Church (2015)

Fundraising for children to Attend Camp Kesem (2015)

Assisted in Virginia Home 5K marathon (2014)

Fundraising school supplies for Teach for America (2014)

Assisted in Weight Loss Challenge for Culpepper Regional Hospital (2014)

Assisted in cleaning the Hollywood Cemetery (2013)

Assisted in scrapbooking for St. Jude's (2013)

Coached Upward Cheerleading (2013)

LEADERSHIP ROLES

Integrated Learning Experience (ILE) Lab

Lead graduate teaching assistant

Fall 2018

American Association of Pharmaceutical Scientists

Auburn Chapter Executive Board

Historian

Fall 2018

PRESENTATIONS

R. L. Cullum, L. M. Lucas, J. T. Piazza, J. I. Senfeld, L. T. Neel, R. B. Gupta, A. E. David, D. J. Riese II. AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, August 23, 2017. Poster Presentation. "Characterization of putative ErbB4 antagonists: Targeted melanoma drug discovery"

L. M. Lucas, R. L. Cullum, J. I. Senfeld, M. H. Harris, J. T. Piazza, L. T. Neel, R. B. Gupta, A. E. David, D. J. Riese II. Department of Drug Discovery, & Development Seminar, January 16, 2018. Oral Presentation. "Studies of the Specificity and Mechanism of Action of Inhibitors of ErbB4-Induced Proliferation: Putative Targeted Melanoma Therapeutics"

L. M. Lucas, R. L. Cullum, J. I. Senfeld, M. H. Harris, J. T. Piazza, L. T. Neel, R. B. Gupta, A. E. David, D. J. Riese II. This Is Research: Student Symposium 2018, March 26, 2018. Poster Presentation. "Characterization of selective and nonselective inhibitors of ErbB4 Signaling: Putative targeted melanoma therapeutics"

ACCEPTED PUBLICATIONS AND ABSTRACTS

DeRuiter, J., Smith, F., Abiedalla, Y., **Neel, L.**, Clark, C.R.; GC-MS and GC-IR Analysis of regioisomeric cannabinoids related to 1-(5-fluoropentyl)-3-(1-naphthoyl)-indole; *Forensic Chemistry*, (2018); 10: 48-57.

Thaxton-Weissenfluh, A., Belal, T.S., DeRuiter, J., Smith, F., Abiedalla, Y., **Neel, L.**, Abdel-Hay, K.M., Clark, C.R.; GC-MS and GC-IR Analyses of the methoxy-1-n-pentyl-3-(1-naphthoyl)-indoles: regioisomeric designer cannabinoids; *Journal of Chromatographic Science*, (2018); 1-10.

Cullum, R.L., Lucas, L.M., Piazza, J., Senfeld, J., **Neel, L.T.**, Gupta, R., Allan, D. Riese, D.J.; Abstract A159: Characterization of putative ErbB4 antagonists: targeted melanoma drug discovery; (2018).

Cullum, R.L., Piazza, J., Senfeld, J., **Neel, L.T.**, Gupta, R., Allan, D., Riese, D.J.; Abstract 1245: Screening methodologies for the discovery of small molecule melanoma therapeutics targeted at the ErbB4 receptor tyrosine kinase. *Cancer Research*, (2017); 77:1245.