Chad R. Camp

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EDUCATION

Emory University, Atlanta, GA August 2016-Present
Doctor of Philosophy in Molecular and Systems Pharmacology

- Dissertation Advisor: Dr. Stephen F. Traynelis

Emory University, Atlanta, GA August 2014-May 2016
Master of Public Health in Environmental Health

- Thesis Title: "Hexabromocyclododecane – a brominated flame retardant – and its potential for cognitive impairment in the cerebral cortex and hippocampus."
- Thesis Advisor: Dr. W. Michael Caudle
- Cumulative GPA: 3.74

University of Georgia, Athens, GA August 2009-August 2013
Bachelor of Science in Biology

- Cumulative GPA: 3.51, Graduated *Cum Laude*

RESEARCH EXPERIENCE

Dissertation Research, Department of Pharmacology – Emory University
Electrophysiology Lab | Principle Investigator: Dr. Stephen F. Traynelis March 2017-Present

- Use whole-cell patch clamp technique on mouse hippocampal brain slices to investigate the role of astrocytic involvement glutamatergic signaling

PhD Lab Rotations, Department of Pharmacology – Emory University
Electrophysiology Lab | Principle Investigator: Dr. Stephen F. Traynelis June 2016-August 2016

- Performed whole-cell patch clamp recordings to test efficacy of subunit selective NMDA receptor allosteric modulator in mouse hippocampal brain slices

Behavioral Pharmacology Lab | Principle Investigator: Dr. David Weinshenker August 2016-December 2016

- Optimized immunohistochemical staining technique to probe various tau protein isoforms in mouse, rat, and human brain tissue samples

Biochemistry Lab | Principle Investigator: Dr. John R. Hepler January 2017-March 2017

- Performed transfections and co-immunoprecipitation experiments from HEK293 cells to elucidate the SUMOylation state of the RGS14 protein

Master's Research, Department of Environmental Health - Emory University
Neurotoxicology Lab | Principle Investigator: Dr. Mike Caudle May 2015 – May 2016

- Performed novel research on an emerging brominated flame retardant, hexabromocyclododecane, and its effect on synaptic proteins in the cerebral cortex and hippocampus in a male mouse model
- Used Western Blotting and immunohistochemistry techniques to probe for over 25 proteins unique to glutamatergic and GABAergic neurotransmission

Analytical Chemistry Lab | Principle Investigator: Dr. Dana B. Barr July 2014 – May 2015

- Extracted and isolated various environmental toxicants – heavy metals, pesticides, flame retardants, plasticizers – from human biological samples
- Injected samples into HPLC-MS/MS or GC-MS for analysis and concentration quantification

PUBLICATIONS

1. Pham-Lake C., Aronoff E.B., **Camp C.R.**, Vester A., Peters S.J., and Caudle W.M. (2017). Impairment in the mesohippocampal dopamine circuit following exposure to the brominated flame retardant, HBCDD. *Environmental and Toxicological Pharmacology*. PMID: 28214749.

INVITED CONFERENCES

Georgia Environmental Health Association, Augusta, GA July 2016

- Presented Master's thesis work regarding HBCDD and its effect on synaptic protein expression in the hippocampal and frontal cortex

PRESENTATIONS

Emory University, "Alzheimer's Disease and Aluminum: An Uncommon Connection" March 2015
Presented in biomarkers course

- Proposed a hypothetical research plan to investigate aluminum levels in the brains of Alzheimer's patients

Emory University, "HBCDD and its Potential for Cognitive Impairment" October 2015
Presented to Environmental Health faculty members

- Thesis project proposal describing public health relevance, research design methodology, and data analysis plan

SCHOLARSHIPS AND AWARDS

Zell B. Miller Scholarship, University of Georgia August 2009 – August 2013
Full tuition reimbursement for academic achievement

Dean's List, University of Georgia Spring 2013
Semester GPA above 3.5

Presidential Scholar, University of Georgia Spring 2012
Semester GPA of 4.0

Dean's List, University of Georgia Fall 2010
Semester GPA above 3.5