

EDUCATION

B.S. **Denison University** (Granville, OH)

Social Neuroscience, Individually Designed Major – May 2008 (3.17/4.0)

- Senior Thesis: "*The Social Neuroscience of Sex; Human Male-Female Similarities and Differences from Neurological Biochemistry to Social Behavior*" – Dr. Susan Kennedy, Dr. Kristina Mead, Dr. Frank Hassebrock

Methodologies

RESEARCH EXPERIENCE

Post-Baccalaureate Research Assistant, Tulane University Medical School, Pharmacology Dept – Jan 2009 – Present

Allan V. Kalueff, Tulane University (New Orleans, LA)

- Designing and performing studies in animal models for neurological and affective disorders. Pharmacological research in mice, zebrafish and *C. elegans* investigating interactions between environmental stress and drug action.
- Data collection and statistical analysis of experiments
- Peer-reviewed and drafted manuscripts for scientific journals
- Mentored and oversaw daily activities for undergraduates involved in laboratory research.

Research Assistant, Center for Cognitive and Social Neuroscience – Summer 2007

John T. Cacioppo, Adam Waytz; University of Chicago (Chicago, IL)

- Assisted with social neuroscience research on anthropomorphism; administered, developed and analyzed survey and computer based experiments, aided with fMRI designs
- Extensive literature review on social and religious sentiments in scientific context

Northwestern University (Evanston, IL)

Digital Media Arts-Production – Summer 2004

- Project: *Progressions*

Research Skills

- Gross brain dissection (mouse, zebrafish)
- DNA and RNA isolation/purification
- Genotyping
- Quantitative Polymerase Chain Reaction
- Enzyme-linked Immunosorbent Assay
- Nanospectrophotometry
- Gel electrophoresis
- Mouse model:
 - Husbandry (feeding, sexing, housing, anesthesia)
 - Drug administration, blood sampling
 - Behavioral phenotyping of anxiety and depression (Open field, Tail suspension, Forced swim tests)
- Zebrafish model:
 - Husbandry (feeding, monitoring tank equipment, raising, anesthesia)
 - Behavioral phenotyping for measures of stress and anxiety
- Statistical analysis:
 - Parametric and non-parametric tests
 - Data entry and graph creation

ABSTRACTS & PRESENTATIONS

- Bergner, C.L., Hart, P.C., Egan, R.J., Canavello, P., Cachat, J., Armi, H., Glasgow, E., Zukowska, Z., Kalueff, A.V. Neural and Physiological Phenotypes in Zebrafish Models of Stress. 9th World Congress of Biological Psychiatry. June 28th - July 2nd 2009.
- Hart, P.C., Bergner, C.L., Egan, R.J., Cachat, J., Canavello, P., Bartels, B., Beeson, E., Elkhayat, S., Elegante, M., Monhot, S., Tein, D., Tein, A., Amri, H., Glasgow, E., Zhukowska, Z., Kalueff, A. Zebrafish (*Danio rerio*) models of drug abuse and anxiety. LSU Annual Neuroscience Retreat, March 2009.

- Hart, P.C., Bergner, C.L., Egan, R.J., Cachat, J., Canavello, P., Armi, H., Glasgow, E., Zukowska, Z., Kalueff, A.V. The Correlation of Neural and Physiological Endophenotypes in Zebrafish Models of Stress. 20th Annual Tulane Health Sciences Research Days. Feb 2009.
- Social Neuroscience of Sex; Human Male-Female Similarities and Differences form Neurological Biochemistry to Social Behavior, Cachat 2008 – Psychology Dept. Symposium – available at www.jcachat.com/socneuroppt.html - May 2008

UNIVERSITY SERVICE & LEADERSHIP DEVELOPMENT

- 2007 - 2008 President, Interfraternal Council (IFC), Denison University; Granville, OH
 2005 - 2008 Social Chair & Derby Days Chair, Sigma Chi (Mu) Denison University; Granville, OH

AWARDS & COPYRIGHTS

- Dialectical Model of Human Nature – USA Patent (6.2008)
- Award of Distinction – Dialectical Model of Human Nature – Denison University, Dept. Of Philosophy – May 2008

ATTENDED CONFERENCES

- Music & The Brain – Cleveland Clinic – June 2008
- Neuroscience Medical Innovations Summit – Cleveland Clinic – November 2006

REFERENCES

Susan Kennedy, Ph.D. – Academic & Senior Research Advisor; Neuroscience
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 740.587.6676 (work)

Allan V. Kalueff, Ph.D. – Professor of Pharmacology; PI
 Tulane University; New Orleans, LA 70112
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John T Cacioppo, Ph.D – Director of the Center for Cognitive and Social Neuroscience
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