

JONATHAN CACHAT

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EDUCATION

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

Social Neuroscience, Individually Designed Major – May 2008

- 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

Tulane University (New Orleans, LA)

Neuroscience Graduate Program, PhD Student (2009 – 2013)

- A.V.Kalueff Lab; Pharmacology Dept & Neuroscience Program

RESEARCH EXPERIENCE

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

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*

PEER-REVIEWED ARTICLES

- Egan R, Bergner C, Hart R, **Cachat J**, Canavello P, Elegante M, Elkhayat S, Bartels B, Tien A, Tien D, Mohnot S, Beeson E, Glasgow E, Amri H, Zukowska Z, Kalueff A. Understanding behavioral and physiological phenotypes of stress and anxiety in zebrafish. Behav Brain Res 2009; 205: 38-44.
- Tuohimaa P, Keisala T, **Cachat J**, Kalueff A. Vitamin D, nervous system and aging. Psychoneuroendocrinology 2009, in press.
- LaPorte J, Egan R, Hart P, Bergner C, **Cachat J**, Canavello P, Kalueff AV. Qui non proficit, deficit: Experimental models for 'integrative' research of affective disorders. J Affect Disorders 2009, in press.

BOOK CHAPTERS

- Canavello P, Cachat J, Beeson E, Laffoon A, Grimes C, Haymore W, Elegante M, Bartels B, Hart P, Elkhayat S, Tien D, Mohnot S, Amri H, Kalueff AV. Measuring endocrine (cortisol) responses of zebrafish to stress. In: *Zebrafish Neurobehavioral Protocols*. Eds: AV Kalueff and JM Cachat. Humana Press, 2010, in press.
- Canavello P, **Cachat J**, Elkhayat S, Bartels B, Hart P, Elegante M, Beeson E, Laffoon A, Haymore W, Tien D, Tien A, Mohnot S, Kalueff AV. Video-aided analysis of zebrafish locomotion and anxiety-related behavioral responses. In: *Zebrafish Neurobehavioral Protocols*. Eds: AV Kalueff and JM Ca-

chat. Humana Press, 2010, in press.

- **Cachat J**, Canavello P, Elegante M, Bartels B, Elkhayat S, Hart P, Tien A, Tien D, Beeson E, Mohnot S, Laffoon A, Haymore W, Kalueff AV. Modeling stress and anxiety in zebrafish. In: *Zebrafish Models in Neurobehavioral Research*. Eds: AV Kalueff and JM Cachat. Cambridge University Press, UK 2010, in press.

EDITED BOOKS

- *Zebrafish Models in Neurobehavioral Research*. Kalueff AV, **Cachat J** (editors), Cambridge University Press, UK 2010, in press.
- *Zebrafish Neurobehavioral Protocols*. Kalueff AV, **Cachat J** (editors), Humana Press, NYC 2010, in press.

ABSTRACTS & PRESENTATIONS

- Social Neuroscience of Sex; Human Male-Female Similarities and Differences from Neurological Biochemistry to Social Behavior, **Cachat 2008** – Psychology Dept. Symposium – available at www.jcachat.com/socneuroppt.html - May 2008
- Hart P, Bergner C, Egan R, **Cachat J**, Canavello P, Armi H, Glasgow E, Zukowska Z, Kalueff AV. The Correlation of Neural and Physiological Endophenotypes in Zebrafish Models of Stress. 20th Annual Tulane Health Sciences Research Days. Feb 2009.
- Hart P, Bergner C, Egan R, **Cachat J**, Canavello P, Bartels B, Beeson E, Elkhayat S, Elegante M, Mohnot S, Tien D, Tien A, Amri H, Glasgow E, Zhukowska Z, Kalueff A. Zebrafish (*Danio rerio*) models of drug abuse and anxiety. LSU Annual Neuroscience Retreat, March 2009
- Canavello P, **Cachat J**, Bergner C, Egan R, Hart P, Bartels B, Beeson E, Elkhayat S, Elegante M, Mohnot S, Tien A, Tien D, Amri H, Glasgow E, Zukowska Z, Kalueff AV. "Behavioral Pharmacology and Acute Stress Responses in Zebrafish". 12th International Neuroscience "Stress and Behavior" Conference. St. Petersburg. May, 2009.
- **Cachat J**, Canavello P, Bergner C, Egan R, Hart P, Bartels B, Beeson E, Elkhayat S, Elegante M, Mohnot S, Tien D, Tien A, Amri H, Glasgow E, Zukowska A, Soignier R, Kalueff AV. "Modeling Substance Withdrawal Syndrome in Zebrafish (*Danio Rerio*)". 12th International "Stress and Behavior" Conference. St. Petersburg. May, 2009.
- Bergner C, Hart P, Egan R, Canavello P, **Cachat J**, Armi H, Glasgow E, Zukowska Z, Kalueff AV. Neural and Physiological Phenotypes in Zebrafish Models of Stress. 9th World Congress of Biological Psychiatry, Paris, June 2009.
- Tien D, Canavello P, **Cachat J**, Egan R, Hart P, Bergner C, Elegante M, Mohnot S, Elkhayat S, Bartels B, Tien A, Beeson E, Kalueff AV, Soignier D. "Visualizing and interpreting drug-evoked anxiety behaviors in Zebrafish". Society for Neuroscience Conference 2009. Chicago, IL. October, 2009.
- **Cachat J**, Canavello P, Bergner C, Egan R, Hart P, Bartels B, Beeson E, Elkhayat S, Elegante M, Mohnot S, Tien D, Tien A, Glasgow H, Zukowska Z, Amri H, Soignier D, Kalueff, A. "Modeling Withdrawal Anxiety in Zebrafish (*Danio rerio*)". Society for Neuroscience Conference 2009. Chicago, IL. October, 2009.

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 & PATENTS

- 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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Allan V. Kalueff, Ph.D. – Professor of Pharmacology; PI
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504.988.3354 (work)

John T Cacioppo, Ph.D – Director of the Center for Cognitive and Social Neuroscience
The University of Chicago, Chicago, IL 60637
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Last revised: 9/2009