

## CURRICULUM VITAE

September, 2014

### **ANDRE RAGNAUTH**

12-02 30<sup>th</sup> Drive, Apt 2A  
Astoria, NY 11102-3846  
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### **Academic appointments:**

Assistant Medical Professor 2008 - present Department of Pharmacology, Physiology & Neuroscience  
Sophie Davis - CUNY Medical School  
City University of New York

Assistant Professor 2008 - present Neuropsychology Doctoral Program (Adjunct Professor)  
Queens College,  
City University of New York.

Assistant Professor 2004 - 2010 Department of Neurology  
James J. Peters Veterans Affairs Medical Center,  
Bronx, NY.

Assistant Professor 2004 - 2008 Department of Pharmacology and Systems Therapeutics  
Mt. Sinai School of Medicine,  
New York, NY.

### **Education:**

2000 Ph.D. Laboratory of Opioid Pharmacology (neuropsychopharmacology)  
Neuropsychology  
Graduate School,  
City University of New York, and

Laboratory of Neurobiology & Behavior (neurobiology)  
The Rockefeller University,  
New York, NY.

1995 M.Phil. Psychology  
Queens College, City University of New York

1994 BA Psychology & Anthropology (Magna Cum Laude)  
Queens College, City University of New York

### **Postdoctoral training:**

2004 – 2008 Senior Postdoctoral Fellow (neurobiology & behavior – Autism)  
Mentor: Dr. Eric Hollander, M.D. (Psychiatry/Neurology)  
Mt. Sinai School of Medicine, NY

2000 – 2004 Senior Postdoctoral Fellow (biophysics & behavior – oxytocin)  
Laboratory of Neurobiology & Behavior  
The Rockefeller University, NY

### **Predocctoral training:**

1997 – 2000 Research Scientist (graduate student)  
Laboratory of Neurobiology & Behavior  
The Rockefeller University, NY

### **Honors/awards:**

Jan 2010 – Dec 2010 **Dept. of Defense Autism Pilot Grant**  
(Co-Investigator with Dr. Derek SanAngelo – MSKCC)

Sept 2008 – Aug 2010 **CCNY/MSKCC Cancer Research Grant**  
(Co-Investigator, with Drs. Karen Hubbard & Tim Ahles)

Sept 2004 – Dec 2007 **Founding Director, Phenotyping Core Facility**  
Research Center Development Funding  
Mt. Sinai School of Medicine, NY.  
(founder, Translational Research Core Facility, MSSM)

June 2001 – Aug 2004 **NIMH Minority Postdoctoral Grant,**  
Laboratory of Neurobiology & Behavior,  
The Rockefeller University, NY.

Aug 1997 - June 2000 **Graduate Assistant Fellowship,**  
Graduate School, City University of New York,

May 1997 - Dec 2000 **Graduate Research Scientist**  
Laboratory of Neurobiology & Behavior,  
The Rockefeller University, NY.

Sept 1995 – Aug 1999 **Teaching Fellowship,**  
Graduate School, City University of New York,  
Neuropsychology Sub-program

Mar 1995 - Dec 1995 **NIH-Fogarty Minority International Fellowship Award**  
Uganda and Kenya, East Africa

Oct 1991 – June 1994 **Who's Who Among Students in American Universities & Colleges.**  
1990 **Member, Veterans of Foreign Wars**  
New York Chapter

**Teaching activities:**

January 2008 – current: Assistant Medical Professor  
Department of Pharmacology, Physiology and Neuroscience,  
Sophie Davis School of Biomedical Education, CUNY.  
Course: Neuropsychiatry (Drug Abuse & Addiction/Opioids) # MED 59900  
Course: Pharmacology (Drug Abuse & Addiction/Opioids) # PA 32202  
Course: Intro. To Drug Abuse & Addiction (CCNY) #MED 10000  
[Course Director]  
Course: Neuropharmacology (Drug Abuse & Addiction/Opioids) # BIOL 79304

January 1997 – June 2001: Adjunct Lecturer  
Department of Psychology, CW Post College, LIU, NY  
Course: Clinical Psychopharmacology (Graduate)  
Course: Neurophysiology (Graduate)

Sep 1996 – June 2000: Adjunct Lecturer  
Department of Psychology, Brooklyn College, CUNY  
Course: Physiological Psychology (Undergraduate)

June 1997 – June 2000: Adjunct Lecturer  
Department of Psychology, Queens College, CUNY  
Courses: Behavioral Neuroscience (Undergraduate)  
Principles of Drug Action (Undergraduate)  
Motivation: A Neuroscience Perspective (Undergraduate)

**CCNY/University Activities:**

2014 – present	Liason, HarlemBiospace, StartUp NY, with CCNY
2013 – present	Liason, HarlemBiospace, Biotech Incubator (founding member), with CUNY
2013 – present	Liason, Department of the Navy, SeaPerch Underwater Robotics Technology Development, with Grove School of Engineering, CCNY
2011	Faculty Member, Strategic Planning Team, Planning Committee, Sophie Davis, CCNY.
20011	Member, Faculty Hiring Committee, Psychology Department, CCNY.
20010	Member, Faculty Hiring Committee, Cognitive Neuroscience PhD. program, Psychology Department, CCNY.
2010	Member, Student Academic Progress Committee, Sophie Davis School of Biomedical Education, CCNY
2009	Member, Faculty Hiring Committee, Dept. of Physiology/Pharmacology/Neuroscience, Sophie Davis School of Biomedical Education, CCNY.
2009 - present	Member, Admission Committee, Sophie Davis School of Biomedical Education, CCNY.
2009 - present	Student Faculty Advisor/Member City College Veterans Association
2008	Member, Institutional Animal Care and Use Committee (IACUC), CCNY.
2008 - present	Mentor, BS/MD students, SDSBE, (currently 3 students, total 21)
2008 - present	Mentor, CCNY undergrad students, (currently 3 students, total 14)

### **Military Service:**

June 1992 – May 2004	<b>United States Army, Reserve Component</b> Ft. Totten, New York. Meritorious Service Medal (5 Oak leaves clusters) Army Achievement Medal (1 Oak leaves cluster)
February 1987 - June 1992	<b>United States Army, Active Component</b> Iraq TO Veteran Medal for the Liberation of Kuwait Southwest Asia Service Medal Armed Forces Expeditionary Medal Army Commendation Medal Army Achievement Medal (2 Oak leaves clusters) Meritorious Service Medal (6 Oak leaves clusters) Honorable Discharge

### **Publications:**

#### **Book/Chapters:**

1. Maria Fernanda Gomez, João V. Nunes, **Andre Ragnauth** (2011). *Substance Abuse*, in The Behavioral Sciences and Health Care. Hogrefe Publishing; ed. Sahler O.J., Carr, J.E., Frank, J., Nunes, J. 3rd, revised and expanded edition.

#### **Journal Articles**

1. Bodnar, R.J., Glass, M.J., **Ragnauth, A.**, Cooper, M.L. General, mu, and kappa opioid antagonists in the nucleus accumbens alter food intake under deprivation, glucoprivic, and palatable conditions. *Brain Research*, **700**: 205-212, 1995.
2. **Ragnauth, A.**, Ruegg, H., Bodnar, R.J. Evaluation of opioid receptor subtype antagonist effects in the ventral tegmental area upon food intake under deprivation, glucoprivic, and palatable conditions. *Brain Research*, **767**: 8-16, 1997.
3. Burdick, K., Yu, W.-Z., **Ragnauth, A.**, Moroz, M., Pan, Y.X., Rossi, G.C., Pasternak, G.W. Bodnar, R.J. Antisense mapping of opioid receptor clones: effects upon 2-deoxy-D-glucose-induced hyperphagia. *Brain Research*, **794**: 359-363, 1998.
4. Spinella, M., Znamensky, V., Moroz, M., **Ragnauth, A.**, Bodnar, R.J. Actions of NMDA and cholinergic receptor antagonists in the rostral ventromedial medulla upon  $\beta$ -endorphin analgesia elicited from the ventrolateral periaqueductal gray. *Brain Research* **829**: 151-159, 1999.
5. **Ragnauth, A.**, Moroz M., Bodnar, R.J. Multiple opioid receptors mediate feeding elicited by mu and delta opioid receptor subtype agonists in the nucleus accumbens shell in rats. *Brain Research* **876**: 76-87, 2000.
6. **Ragnauth, A.**, Znamensky, V., Moroz, M., Bodnar, R.J. Analysis of dopamine receptor antagonism upon feeding elicited by mu and delta opioid agonists in the shell region of the nucleus accumbens. *Brain Research* **877**: 65-72, 2000.
7. **Ragnauth, A.**, Schuller, A., Morgan, M., Chan, J., Ogawa, S., Pintar, J., Bodnar, R.J., Pfaff, D.W. Female Preproenkephalin knockout mice display altered emotional responses. *Proc Nat Acad Sci.*, **98** (4): 1958-1963, 2001.
8. Znamensky, V., Echo, J., Lamonte, N., Christian, G., **Ragnauth, A.**, Bodnar, R.J. GABA receptor subtype antagonists differentially alter opioid-induced feeding in the shell-region of the nucleus accumbens in rats. *Brain Research*, **906**: 84-91, 2001.
9. Kow, L. -M, Vasudevan, N., Devidze, N., **Ragnauth, A.**, Pfaff, D.W. Mechanisms of steroid hormone actions on hypothalamic nerve cells: Molecular and biophysical studies relevant for hormone dependent behaviors. In *Hormones and the Brain (Research and Perspectives in Endocrine Interactions)*, ed. Kordon et.al., Springer-Verlag, Berlin-Heidelberg, November, 2004.
10. **Ragnauth, A.**, Goodwillie, A., Brewer, C., Ogawa, S., Muglia, L., Pfaff, DW, Kow, L.-M. Vasopressin stimulates ventromedial hypothalamic neurons with oxytocin receptors in oxytocin gene knockout male and female mice. *Neuroendocrinology*, **80** (2):92-9, 2004.
11. Kow, L.-M., Devidze, N., **Ragnauth, A.**, Ogawa, S., Mong, J.A., Pfaff, DW. Mechanisms for sexual differences in rodent behaviors: Electrophysiological and molecular biological findings. *Jpn J Physiol*, **54** S-40, 2004.
12. **Ragnauth, A.**, Moy, V., Brewer, C., Kow, L.-M., Ogawa, S., Pfaff, D.W. Female oxytocin gene knockout (OTKO) mice in a semi-natural environment (SNE) exhibit altered aggressive behaviors. *Genes, Brain & Behavior*, **4** (4):229-39, 2005.
13. Cataldo G, Bernal S, Markowitz A, Ogawa S, Ragnauth, A., Pfaff DW, Bodnar, R.J. Organizational manipulation of gonadal hormones and systemic morphine analgesia in female rats: effects of adult ovariectomy and estradiol replacement. *Brain Research*, **1059** (1):13-9, 2005.

14. Rodriguiz R.M., Gadnidge K., **Ragnauth A.**, Dorr N., Yanagisawa M, Wetsel, W.C., and Devi L.A.. Animals lacking endothelin converting enzyme-2 are deficient in learning and memory. Genes Brain and Behavior, Nov, 2007 [epub. available online].
15. Juni, A., Klein, G., Kowalczyk, B., **Ragnauth, A.**, Kest, B. Sex differences in hyperalgesia during morphine infusion: Effect of gonadectomy and estrogen treatment. Neuropharmacology, April 2008 Jun;54(8):1264-70.
16. Elder, G.A., **Ragnauth, A.**, Dorr, N. Franciosi, S., Schmeidler, J., Haroutunian, V., and Buxbaum, J.D. (2008). Increased locomotor activity in mice lacking the low-density lipoprotein receptor. *Behavioral Brain Research*, **22**;191(2):256-65.
17. Banerjee SP, **Ragnauth, A.**, Chan CY, Agovic MS, Sostris V, Jashanmal I, Vidal L, Friedman EF (2012). Neuropharmacological actions of Taurine. *Amino Acid*. Accepted for publication.

### **Published Abstracts:**

1. **Ragnauth, A.**, Glass, M.J. and Bodnar, R.J. Mu and kappa opioid antagonists selectively alter deprivation, glucoprivic and sucrose intake in the nucleus accumbens of rats. Soc. Neurosci. Abstr. **21**: 363, 1995.
2. Cole, J.L., Leventhal, L., Rossi, G.C., Pan, X.Y., **Ragnauth, A.**, Yu, W. Pasternak, G.W. and Bodnar, R.J. Selective reductions in body weight and ingestive responses by antisense oligodeoxynucleotides against different regions of the MOR-1 clone. Soc. Neurosci. Abstr. **21**: 362, 1995.
3. **Ragnauth, A.**, Ruegg, H. and Bodnar, R.J. Modification of deprivation, glucoprivic and palatable intake following opioid receptor subtype antagonists in the ventral tegmental area of rats. Soc. Neurosci. Abstr. **22**: 455, 1996.
4. **Ragnauth, A.**, Moroz, M. and Bodnar, R.J. Pharmacological characterization of  $\mu$  opioid-induced feeding elicited from the nucleus accumbens of rats. Soc. Neurosci. Abstr., **23**: 689, 1997.
5. **Ragnauth, A.**, Schuller, A., Chan, J., Ogawa, S., Bodnar, R.J., Pintar, J. and Pfaff, D.W. Female preproenkephalin knockout mice display altered emotional responses. Soc. Neurosci. Abstr. **24**: 1356, 1998.
6. Burdick, K, Yu, W.Z., **Ragnauth, A.**, Moroz, M., Pan, X.Y., Rossi, G.C., Pasternak, G.W. and Bodnar, R.J. Antisense mapping of opioid receptor clones: effects upon 2-deoxy-D-glucose hyperphagia. Soc. Neurosci. Abstr. **24**: 1356, 1998.
7. Spinella, M, Znamensky, V., Moroz, M., **Ragnauth, A.**, and Bodnar, R.J. Actions of NMDA and cholinergic receptor antagonists in the rostral ventromedial medulla upon  $\beta$ -endorphin analgesia elicited from the ventrolateral periaqueductal gray. Soc. Neurosci. Abstr. **25**: 1437, 1999.
8. **Ragnauth, A.**, Znamensky, V. and Bodnar, R.J. Dopamine receptor subtype antagonism alters  $\mu$  opioid agonist-induced feeding in the rat nucleus accumbens. Soc. Neurosci. Abstr. **25**: 1883, 1999.
9. Echo, JA, Znamensky, V., Lamonte, N., **Ragnauth, A.** and Bodnar, R.J. Ingestive interactions between AMPA excitatory amino acid receptors and  $\mu$  opioid receptors in the nucleus accumbens shell in rats. Soc. Neurosci. Abstr. **26**: 993, 2000.

10. Krzanowska, EK., Znamensky, V., **Ragnauth, A.**, Ogawa, S. Pfaff, D.W. and Bodnar, R.J. Neonatal gonadectomy alters patterns of sex differences in morphine analgesia elicited from the periaqueductal gray in rats. Soc. Neurosci. Abstr. 26: 436, 2000.
11. Kow, L.-M., **Ragnauth, A.**, Brewer, C., Ogawa, S., Pfaff, D.W. Arginine vasopressin (AVP) stimulates oxytocin-responsive neurons in the hypothalamus of oxytocin (OT) gene knockout (OTKO) mice. Soc. Neurosci. Abstr. 27. 2001.
12. **Ragnauth, A.**, Moy, V., Brewer, C., Kow, L.-M., Ogawa, S., Pfaff, D.W. Female oxytocin gene knockout (OTKO) mice in a semi-natural environment (SNe) exhibit altered aggressive behaviors. Soc. Neurosci. Abstr. 27. 2001.
13. Choleris, E., **Ragnauth, A.**, Kow, L.-M., Pfaff, DW. Functional Genomics of Oxytocin in the Mouse Brain. World Congress on Neurohypophysial Hormones. Kyoto Prefectural University of Medicine, Kyoto, Japan. Invited lecture, September, 2003.
14. Devidze, N., Choleris, E., **Ragnauth, A.**, Ogawa, S., Pfaff, D.W. Semi-natural housing affects social recognition and open field activity in wild type and oxytocin knockout mice. Soc. Neurosci. Abstr. 34. 2004.
15. Cataldo, G., Bernal, S., Markowitz, A., Ogawa, S., **Ragnauth, A.**, Pfaff, D.W., Bodnar, R.J. Organizational and activational gonadal hormone interactions modulating central and systemic morphine analgesia in female rats. Soc. Neurosci. Abstr. 34. 2004.
16. Juni, A., **Ragnauth, A.**, Kest, B., Klein, G., Kowalczyk, B. Sex differences in morphine and morphine-3-glucuronide hyperalgesia. Soc. Neurosci. Abstr. 34. 2004.
17. Chowdhury, F., Duran, C. Akter, N. Hubbard, K., Sostre, V. **Ragnauth, A.** Cognitive Consequences of Chemotherapeutic Agents on Rats: A Model For Human Cancer Patients. International Cognition and Cancer Task Force. Paris, France. March, 2012.
18. Banerjee SP, **Ragnauth A**, Chan CY, Agovic MS, Sostris V, Jashanmal I, Vidal L, Friedman EF. Neuropharmacological actions of Taurine. 18<sup>th</sup> Annual International Taurine Meeting. Marrakesh, Morocco. April, 2012.

### **Invites/lectures/presentations:**

1. Kow, L. –M., **Ragnauth, A.**, Pfaff, D.W. Mechanisms of steroid hormone action on developing and adult hypothalamic nerve cells: Molecular and biophysical studies relevant for Hormone-dependent behaviors. Ipsen Foundation Symposium, Paris, France. Dec, 2003.
2. Kow, L. –M., Devidze, N., **Ragnauth, A.**, Ogawa, S., Mong, J., Pfaff, D.W. Mechanisms of sexual differences in rodent behaviors: Electrophysiological and molecular biological findings. Physiological Society of Japan. Kyoto, Japan, May, 2004.
3. **Ragnauth, A.** Autism: Is there a role for Oxytocin? National Alliance for Autism Research. New York, NY, May, 2005.
4. Banerjee, S.P., **Ragnauth, A.**, Chan, C., Agovic, M.S., Sostre, V., Jashanmal, I., Vidal, L. and Friedman, E. Neuropharmacological actions of taurine. The 18th International Taurine Meeting. Marrakech, Morocco. April 2012.

5. Muritala, M., Chowdhury, F., Akhter, N., Nyarko, Y., McGinn, J.T., Duran, C., Razzaki, T., Rodriguez, R., Ramji, K., Kurivilla, A., Rutyna, M., Vidal, L., Curiale, A., Schmidt, M., Chan, C.Y., Hubbard, K., Sostre, V., Friedman, E.F., Jashanamal, I., Banerjee, S.P., **Ragnauth, A.** Taurine may be a neuroprotective molecule in rats. International Cognition and Cancer Taskforce. Seattle, WA, February 2014.

6. **Ragnauth, A.**, Rodriguez, R., Moait, M., Muritala, M., Jacques, F., Rutyna, M., Okolo, A., Schmidt, J.M., Maranda, M., Friedman, E.F., Banerjee, S. P. Neuropsychopharmacological actions of taurine: recent advances. The 19th International Taurine Meeting. Krakow, Poland. May 2014.

### **Extra-curricular activities:**

- |                |   |
|----------------|---|
| 2007 - present | Board of Directors: Origins Health Strategy Group, Union County, NJ (non-profit organization, educating the public about the role of genetics and health).  |
| 2004 - present | On-call Science Advisor: Profit Planners Inc. NY, NY (for-profit business, providing advisement solutions to businesses & individuals regarding diverse investment opportunities).  |
| 2004           | Completed "From Idea to IPO," a Science to Business course presented at the New York Academy of Sciences (organized by Dr. Eric Staeva-Vieira).   |
| 2002 - 2003    | Organizing Committee, The Rockefeller University Neuroscience Conference, Shelby White and Leon Levy Center for Mind, Brain and Behavior, Mohonk Mountain Center, New Paltz, New York. (Assistant to Dr. Torsten Wiesel). |
| 2002 - present | On-call Science Advisor: Geometry Group. NY, NY (for-profit business, providing scientific solutions to governments, businesses & individuals regarding investment opportunities in the sciences).                        |
| 2002 - 2004    | Chair, Postdoctoral Association, The Rockefeller University. (Co-ordinate with Dr. Thomas Sakmar and Dr. Paul Nurse).   |
| 2001 - 2004    | Organizer / Coordinator - Biomedical Lecture series, The Rockefeller University. (Co-ordinate with Dr. Kevin O'Donovan).  |
| 2001           | Postdoctoral Association Exploratory / Founding Committee, The Rockefeller University. (Co-ordinate with Dr. Arnold Levine).  |
| 1997 -2000     | Doctoral Students Admissions Committee, Neuropsychology, The Graduate School, CUNY.   |
| 1995 - 2000    | Doctoral Students Association Representative, Neuropsychology, The Graduate School, CUNY  |
| 1993 - 1994    | President, Anthropology Society, Queens College.  |