H E L E N T . F R E N C H

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EDUCATION

- Ph.D. Biopsychology & Behavioral Neuroscience (2009-present; expected 2014)
  The Graduate Center & Hunter College of City University of New York, New York NY
- B.A. Psychology, *Cum Laude with Honors in Major* (2003-2007)
  George Mason University, Fairfax VA

SCIENTIFIC RESEARCH EXPERIENCE

Hunter College CUNY: Hauber Laboratory, Department of Psychology, New York, NY:

- Doctoral Thesis (present); Advisor: Mark Hauber, PhD
  - Examining how climate change and environmental variables, including temperature, photoperiod, diet and social cues, have effected female brown-headed cowbird migratory readiness, host-parasitism versus predation, and fecundity.

American Museum of Natural History: Div. of Vertebrate Zoology – Ornithology, NY, NY:

- Doctoral Rotation (01/10 – present); Advisor: Robert Rockwell, PhD
  - 22 years of data on first spring arrival dates of over 77 species of migratory birds' to Winnipeg Manitoba are being compared with climate trends in that region.

Hunter College CUNY: Moller Laboratory, Department of Psychology, New York, NY:

- Doctoral Rotation (09/09 – 12/09); Advisor: Peter Moller, PhD
  - Examined sensory development in electric fish during early development.

National Institute of Mental Health (NIMH), *NIH:* Laboratory of Clinical Science, Bethesda MD:

- Post-Baccalaureate Fellow: Intramural Research Training Award (IRTA) (09/07 – 07/09)
  Advisor: Dennis L. Murphy, MD
  - Ran experiments aiming to further delineate the phenotype of serotonin transporter deficient mice (5-HTT heterozygous & knockout mice), helped mentor undergraduate summer volunteer; contract awarded for 2nd year (typical duration 1 year).

National Cancer Institute (NCI), *NIH:* Div. Cancer Control & Population Sciences, Rockville MD:

- Post-Baccalaureate Fellow: Cancer Research Training Award (CRTA) (06/07 – 09/07)
  Advisor: Shannon M. Lemrow, PhD
  - Worked in collaborative team to co-author publication (Lemrow et al., 2008) characterizing gallbladder cancer incidence among Native Americans in the US.
  - C-Change Summer Intern – participant in auxiliary national cancer internship.

George Mason University: Smith Laboratory, Department of Psychology, Fairfax, VA:

- Psychology Honors Project (05/06 – 05/07)
  Advisor: Robert F. Smith, PhD
  - Researched age-dependent structural changes in dendrites of prefrontal (mPFC) pyramidal neurons following nicotine administration in rats (Bergstrom et al., 2008).

SCIENTIFIC PUBLICATIONS

- **French HT** & Rockwell RF. The effects of climate change on avian species in Europe. [manuscript in preparation for submission to the Nature Knowledge Project].
- Rockwell RF and **French HT**. Changes in Climate & Spring Arrival Dates of Migratory Birds in Winnipeg Manitoba. [manuscript in progress].
- Fox MA, Stein AR, **French HT** and Murphy DL (2010). Functional interactions between 5-HT2A and presynpatic 5-HT1A receptor-based responses in mice genetically deficient in the serotonin 5-HT transporter (SERT). *Br J of Pharmacology*. Feb; 159(4):879-87.
- Fox MA, **French HT**, Laporte JL, Blackler AR and Murphy DL (2009). The serotonin 5-HT 2A receptor agonist TCB-2: A behavioral and neurophysiological analysis. *Psychopharmacology* (Berl). 2010 Sep;212(1):13-23.
- Fox MA, Jensen CL, **French HT**, Stein AR, Huang SJ, Tolliver TJ, Murphy DL (2008). Neurochemical, behavioral, and physiological effects of pharmacologically enhanced serotonin levels in serotonin transporter (SERT)-deficient mice. *Psychopharmacology* (Berl). Dec; 201(2):203-18.
- Lemrow SM, Perdue DG, Stewart SL, Richardson LC, Jim MA, **French HT**, Swan J, Edwards BK, Wiggins C, Dickie L, Espey DK (2008). Gallbladder cancer incidence among American Indians and Alaska Natives, US, 1999-2004. *Cancer*. Sep 1;113(5 Suppl):1266-73.
- Bergstrom HC, McDonald CG, **French HT**, and Smith RF (2008). Continuous nicotine administration produces selective, age-dependent structural alteration of pyramidal neurons from prelimbic cortex. *Synapse*. Jan;62(1):31-9.

ORAL PRESENTATIONS

- **French HT**, Lemrow SM, Perdue DG, Stewart SL, Richardson LC, Jim MA, Swan J, Edwards BK, Wiggins C, Dickie L, Espey DK. Regional Differences in Gallbladder Cancer Incidence and Stage among American Indians and Alaska Natives, 1999-2004. Network for Cancer Control Research among American Indian and Alaska Native Populations (NETWORK), NCI Bethesda MD (04/08).
- **French HT.** Summer at the National Cancer Institute. C-Change Semi-Annual Meeting, Marriott at Metro Center D.C. (10/07).
- **French HT,** Bergstrom HC, McDonald CG, and Smith RF. Chronic nicotine administration induces long-lasting and selective structural alterations in pyramidal neurons from adult rodent medial prefrontal cortex. Defense of honors thesis to committee of three PhDs, GMU Fairfax VA (05/07).

TEACHING EXPERIENCE

Hunter College CUNY:

- Teaching Assistant (08/10-present)
  - Course: Evolution & Behavior (Psychology 160); Undergraduate level
  - Course: Women in Psychology (Psychology 235); Undergraduate level

SELECT ACADEMIC AWARDS & HONORS

National Awards & Honors:

- Ethel Louise Armstrong (ELA) Foundation: Lucille Forier Owen Scholar (08/10-present)
- NSF Graduate Research Fellowship Program(GRFP): Honorable Mention (04/10)