

## Research Engineer in Biological Data Analysis

3 years experience in management and project leading

### PROFESSIONAL EXPERIENCE

- October, 2016 to 2017 Research Engineer in Biological Data Analysis, Ph.D. in Neuroscience, Neurofunctional Imaging Group (GIN), IMN, university of Bordeaux, France:
- Aim: Study in population neuroimaging of a new white matter microstructure phenotype
  - Skills: Image analysis (anatomical and diffusion MRI), programming, statistics
  - Project: Program writing, data extraction, phenotype characterization, documentation writing
- October, 2012 to 2015 Research Fellow in Neuroscience, Memory and Behavioral Plasticity Group (GMPc) EA 4259, university of Caen Normandy, France:
- Aim: Study of the involvement of type 7 serotonergic (5-HT<sub>7</sub>) receptor in cognitive functions; a novel target of interest in the treatment of age-related cognitive decline
  - Skills: Molecular and cellular biology; physiology, imaging; animal behavior; aging, memory
  - Project: Specifications writing and experimental protocols, assessments and validations, data collection and analysis, results integration, knowledge promotion
- Research internships:
- February-August, 2014 Research training at the Istituto Superiore di Sanità (Roma, Italy):
- Implication of 5-HT<sub>7</sub> receptors in cognitive processes in rodents
- January-June, 2012 Research training, GMPc (Caen, France) with a grant of congress from IREB
- March-May, 2011 Research training, GMPc (Caen, France)
- March-June, 2010 Training in Image processing, Océ (Créteil, France)
- April-June, 2009 Training in Biomedical imaging, Cyceron (Caen, France)
- Other:
- 2004 to 2007 Communications operator, 18<sup>th</sup> regiment, Bretteville-sur-Odon, France

### TRAINING

- October, 2015 Ph.D. student in Neuroscience, GMPc, “*Doctor Europaeus*” (Caen, France); teaching at the university department of pharmacy of Caen (3 years)
- June, 2012 Master 2 Biology, Health, specialty “Neuroscience”, *magna cum laude*, university department of Medicine of Caen, France
- June, 2010 Professional Bachelor’s degree program, Image acquisition and processing, *cum laude*, I.U.T. of Caen, France
- June, 2009 Higher National Diploma, Physics, option Materials and testing in physics-chemistry (M.C.P.C.), I.U.T. of Caen, France
- July, 2003 A-levels equivalent, sciences, Saint-Thomas d’Aquin High School, Flers, France

### SPECIAL SKILLS

- Informatics Image processing (SPM 12, FreeSurfer, FSL, ImageJ, GIMP); statistics (JMP, StatView, Prism, R); programming languages (Bash, C, Java), Matlab
- Management Project leading, trainee and team management, teaching skills (lecture, seminar, practical work)
- Communication Written (scientific articles, reports, posters); oral (internationals, nationals); scientific popularization

### HOBBIES

Guitar, reading, jogging, cooperation games, cooking

## Research works

### WRITTEN COMMUNICATIONS with reading committee

- International journal articles:

- 2017 *Beaudet G., Jozet-Alves C., Asselot R., Schumann-Bard P., Freret T., Boulouard M., Païzanis E.* Deletion of the serotonin receptor type 7 disrupts the acquisition of allocentric but not in egocentric navigation strategies in mice. **Behavioral Brain Research** 320:179-185, doi 10.1016/j.bbr.2016.12.006
- 2016 *Beaudet G., Valable S., Bourguine J., Lelong-Boulouard V., Lanfumey L., Freret T., Boulouard M., Païzanis E.* Long-lasting effects of chronic intermittent alcohol exposure in adolescent mice on object recognition and hippocampal neuronal activity. **Alcoholism: Clinical and Experimental Research** Vol 40, No 12, 2591-2603, doi 10.1111/acer.13256
- 2015 *Beaudet G., Bouet V., Jozet-Alves C., Schumann-Bard P., Dauphin F., Païzanis E., Boulouard M., Freret T.* Spatial memory deficit across aging: current insights of the role of 5-HT<sub>7</sub> receptors. **Frontiers in Behavioral Neuroscience** doi: 10.3389/fnbeh.2014.00448
- 2014 *Freret T., Païzanis E., Beaudet G., Gusmao-Montaigne A., Nee G., Dauphin F., Bouet V., Boulouard M.* Modulation of 5-HT<sub>7</sub> receptor: effect on object recognition performances in mice. **Psychopharmacology** 231:393–400 doi 10.1007/s00213-013-3247-x

- National journal articles:

- 2012 *Beaudet G., Coudrais R., Valable S., Freret T., Lelong-Boulouard V., Bourguine J., Schumann-Bard P., Boulouard M., Païzanis E.* Alcool et boissons énergisantes : quelles conséquences mnésiques et neurobiologiques ? **IREB 2012** (Cahiers de l'IREB n°21 pp57-62)

### ORAL COMMUNICATIONS

- 2013 5-HT<sub>7</sub> receptors are positively implicated in episodic-like memory performances in adult and aged mice. **Symposium normal and pathological aging**, Caen, France
- 2013 Alcool et boissons énergisantes : quelles conséquences mnésiques et neurobiologiques ? **21<sup>st</sup> IREB congress**, Paris, France
- 2012 Conséquences mnésiques et neurobiologiques d'une consommation associée d'alcool et de boissons énergisantes. **4<sup>th</sup> scientific day of the university department of pharmacy of Caen Normandy**, France

POSTER COMMUNICATIONS

- International congresses:

- 2014 *Beaudet G., Freret T., Delaunay V., Nee G., Paizanis E., Boulouard M.* 5-HT<sub>7</sub> receptors knock-out young mice display normal episodic-like and working memories **9<sup>th</sup> Federation of European Neuroscience Societies congress**, Milan, Italy
- 2013 *Beaudet G., Brehin M., Freret T., Nee G., Delaunay V., Boulouard M., Paizanis E.* Disruption of 5-HT<sub>7</sub> receptors accelerates age-related episodic-like memory decline. **European Congress of Neuropsychopharmacology workshop**, Nice, France
- 2012 *Beaudet G., Valable S., Freret T., Lelong-Boulouard V., Bourguine J., Schumann-Bard P., Boulouard M., Paizanis E.* Exposition of adolescent mice to chronic intermittent alcohol induces persistent mnesic deficits, hippocampal molecular but no morphological changes. **16<sup>th</sup> LARC-Neurosciences congress**, Portsmouth, United-Kingdoms
- 2012 *Beaudet G., Valable S., Freret T., Lelong-Boulouard V., Bourguine J., Schumann-Bard P., Boulouard M., Paizanis E.* Persistent mnesic episodic-like deficits, increased neuronal hippocampal activity but no volume changes in adolescent mice exposed to chronic intermittent alcohol. **8<sup>th</sup> Federation of European Neuroscience Societies congress**, Barcelona, Spain

- National congresses:

- 2015 *Beaudet G., Jozet-Alves C., Freret T., Schumann-Bard P., Bouet V., Dauphin F., Paizanis E., Boulouard M.* 5-HT<sub>7</sub> receptors are strongly implicated in allocentric navigation strategy in mice. **19<sup>th</sup> Pharmacological and Therapeutics French Society congress**, Caen, France
- 2015 *Beaudet G., Jozet-Alves C., Chrétien M., Freret T., Schumann-Bard P., Bouet V., Dauphin F., Paizanis E., Boulouard M.* Le rôle des récepteurs de la sérotonine 5-HT<sub>7</sub> dans la navigation spatiale chez la souris. **13<sup>rd</sup> Doctoral School days**, Rouen, France
- 2013 *Beaudet G., Freret T., Delaunay V., Nee G., Paizanis E., Boulouard M.* 5-HT<sub>7</sub> receptors disruption accelerates age-related early episodic-like memory and subsequent working memory decline. **17<sup>th</sup> LARC-Neurosciences congress**, Rouen, France
- 2013 *Beaudet G., Brehin M., Freret T., Nee G., Delaunay V., Boulouard M., Paizanis E.* 5-HT<sub>7</sub> knock-out mice display early deficits in episodic-like memory. **11<sup>th</sup> Doctoral School day**, Caen, France
- 2013 *Beaudet G., Coudrais R., Valable S., Freret T., Lelong-Boulouard V., Bourguine J., Schumann-Bard P., Boulouard M., Paizanis E.* Alcool et boissons énergisantes : quelles conséquences mnésiques et neurobiologiques ? **37<sup>th</sup> French Language Neuropsychology Society Spring days**, Caen, France
- 2012 *Beaudet G., Valable S., Freret T., Lelong-Boulouard V., Bourguine J., Schumann-Bard P., Boulouard M., Paizanis E.* Adolescent mice exposed to chronic intermittent alcoholization are subjected to persistent mnesic deficits and increased neuronal hippocampal activity, but no morphological changes. **6<sup>th</sup> Chemistry, Biology and Health Norman Meeting**, Caen, France
- 2012 *Beaudet G., Valable S., Freret T., Schumann-Bard P., Boulouard M., Paizanis E.* Chronic intermittent alcohol exposure leads to persistent mnesic episodic-like deficits in alcohol-preferring C57BL/6J adolescent mice, and increased neuronal hippocampal activity without any morphological changes. **7<sup>th</sup> Physiology, Pharmacology, Therapeutic congress**, Dijon, France

## TEACHING

- 2014-2015      **Lectures and seminars:** nervous system physiology.  
**Practical works:** nervous, cardiovascular, urinary, endocrinal and digestive systems physiology.  
*University department of pharmacy of Caen Normandy*
- 2013-2014      **Lectures and seminars:** nervous system physiology.  
**Practical works:** nervous, cardiovascular, urinary, endocrinal and digestive systems physiology.  
*University department of pharmacy of Caen Normandy*
- 2012-2013      **Practical works:** nervous, cardiovascular, urinary, respiratory systems physiology; pharmacology.  
*University department of pharmacy of Caen Normandy*

## GRANTS

- 2014              **Congress grant** from Tebu-Bio for the *9<sup>th</sup> Federation of European Neuroscience Societies congress*, Milan, Italy
- 2012              **Congress grant** from IREB for the *8<sup>th</sup> Federation of European Neuroscience Societies congress*, Barcelona, Spain

## REFERENTS

- Michel BOULOUARD**      PhD - Dpharm, Memory and Behavioral Plasticity Group (GMPc) EA 4259, F-14032 Caen, France: michel.boulouard@unicaen.fr
- Thomas FRERET**              PhD, Memory and Behavioral Plasticity Group (GMPc) EA 4259, F-14032 Caen, France: thomas.freret@unicaen.fr