

CURRICULUM VITAE
Etienne Vachon-Preseau

Northwestern University, department of physiology
303 E. Chicago
Chicago, IL USA H2J 3X2
etienne.vachon.presseau@gmail.com

Education

- 2013-present **Post doc in pain neuroimaging**, Northwestern University; Under the supervision of Vania Apkarian.
Project: Brain imaging, placebo response in chronic back pain patients
- 2013 **Research training fellow in social neuroscience** (6 months), Laval University; Under the supervision of Philip Jackson.
Project: Brain imaging, training, empathy
- 2007-2013 **PhD in psychology in pain neuroimaging**, Université de Montréal; Under the supervision of Pierre Rainville.
Project: Brain imaging, stress hormones and empathy in chronic back pain patients and healthy individuals
- 2006-2007 **M.Sc. in psychology in single cell recording**, Université de Montréal; Under the supervision of Jean-Paul Guillemot and Franco Lepore.
Project: The development of the representation of the auditory space in the superior colliculus of the rat.
- 2001-2005 **B.S. with honors in psychology**, Université du Québec à Montréal; Honors under the supervision of André Achim.
Project: Neurofeedback in children with attention deficit and hyperactivity disorder

Expertise and interest

- Brain imaging tools (SPM, FSL)
- Brain volumetry, DTI, graph theory
- Chronic pain
- Neuroendocrinology

Training awards

- 2013-2016 Ranked top 3% within the Canadian Institutes of Health Research (CIHR) 2013 fellowship competition to complete a postdoc fellow under the supervision of Vania Apkarian. (150 000 \$ / 3 years).

Etienne Vachon-Presseau

- 2008-2011 Research award by the *Fonds de la recherche en santé du Québec (FRSQ)* to complete a PhD under the supervision of Pierre Rainville. (60 000 \$ / 3 years) (Declined in 2008-2010 and accepted in 2011).
- 2008-2010 Research award with highest distinction (Banting Scholarship) by the Canadian Institutes of Health Research (CIHR) to complete a PhD under the supervision of Pierre Rainville. (70 000 \$ / 2 years).
- 2006-2008 Research award by the Natural Sciences and Engineering Research Council of Canada (NSERC) to complete a master degree (Msc) under the supervision of Franco Lepore and Jean-Paul Guillemot. (35 000 \$ / 2 years).
- 2006-2008 Research award by the *Fonds de recherche sur la nature et les technologies (FQRNT)* to complete a master degree (Msc) under the supervision of Franco Lepore and Jean-Paul Guillemot. (30 000 \$ / 2 years) (Declined).

Awards and Prizes

- 2007 Prize JANSSEN-ORTHO for the best oral presentation at the *16^e Journée scientifique du Centre de Recherche en Neuropsychologie Et Cognition*. (500 \$)
- 2010 Prize BRAIN VISION for the best poster presentation at the *18^e Journée scientifique du Centre de Recherche en Neuropsychologie Et Cognition* (500 \$).
- 2012 Travel award by Quebec pain society to present my work at Society for Neuroscience 2012 (New-Orlean; 1000 \$)
- 2011-2012 Scholarship from the *Université de Montréal* to complete a PhD under the supervision of Pierre Rainville (12 000).
- 2013 Prize BRUNO CARDU for the best scientific paper (Brain, 2013) at the *18^e Journée scientifique du Centre de Recherche en Neuropsychologie Et Cognition* (500 \$).

Funding

- 2013-2018 Beyond pain subjectivity: A neuroimaging investigation of multidimensional pain-responses and their related function; Operating grant from the Canadian Institutes of Health Research (CIHR).
Role: Co-Investigator
Principal Investigator : Pierre Rainville;
Amount : 689 014 \$

Teaching

- 2008-2010 Teacher assistant at Université de Montréal for the class of History of psychology.

Etienne Vachon-Presseau

- 2011 Invited teacher at Université de Montréal in the class of pain and orofacial dysfunction (Gary Duncan).
- 2013 Invited teacher at Université du Québec à Trois-Rivières in the class of human neuroanatomy (Louis DeBeaumont).

Peer review activities

- Cerebral Cortex
- Pain
- Arthritis and Rheumatism
- NeuroImage
- European Journal of Pain
- The Spanish journal of psychology
- Yonsei Journal of Medicine
- Emotion
- abstracts reviewer for Human Brain Mapping annual meeting (2013)

Invited speaker

2013 The Consortium d'imagerie en neurosciences et santé mentale de Québec (CINQ), Laval University, Qc, Canada

List of publications

1. **Vachon-Presseau E**, Roy M, Martel MO, Albouy G, Sullivan MJ, Jackson PL, Rainville P. (2013) The two sides of pain communication: effects of pain expressiveness on vicarious brain responses revealed in chronic back pain patients. *The journal of pain*, Nov;14(11):1407-15.
2. Marcoux L.A., Michon P.E., Voisin J.I., Lemelin S., **Vachon-Presseau E.**, Jackson P.L. (2013) The modulation of somatosensory resonance by psychopathic traits and empathy. *Frontiers in Human Neuroscience*. Jun (19), 7:274.
3. **Vachon-Presseau, E.**, Martel, M.O., Roy, M., Caron, E., Albouy, G., Marin, M.F., Plante, I., Sullivan M.J., Lupien, S.J., & Rainville P. (2013) Acute stress contributes to individual differences in pain-related brain activity in healthy and chronic pain patients. *The Journal of Neuroscience*, Apr 17; 33 (16), 6826-6833.
4. **Vachon-Presseau E.**, Roy M., Martel M.O., Caron E., Marin M.F., Chen J. Albouy G., Plante, I., Sullivan M.J., Lupien S.J., & Rainville P. (2013) The stress model of chronic pain: evidence from basal cortisol and hippocampal structure and function in humans *Brain*, 136 (Pt 3), 815-27.
5. **Vachon-Presseau E.**, Roy M., Martel M.O., Albouy G., Chen J., Budell L., Sullivan M.J., Jackson P.L., & Rainville P. (2012) Brain processing of sensory and emotional-

- communicative information from which vicarious pain is perceived. *NeuroImage*, (63), 1, 54-62.
6. Mailhot J.P., **Vachon-Presseau E.**, Jackson P.L., & Rainville P. (2012) Empathy traits modulate vicarious effects of dynamic pain expressions on spinal nociception, facial responses and acute pain. *European Journal of Neuroscience* (35) 2 271-278.
 7. Kunz M., Chen J., Lautenbacher S., **Vachon-Presseau E.**, Rainville P. (2011) Cerebral regulation of facial expression of pain. *The Journal of Neuroscience* (31) : 8730-8738.
 8. **Vachon-Presseau E.**, Martel M.O., Roy M., Caron E., Jackson P., & Rainville P. (2011). The multilevel organization of vicarious pain responses: effects of pain cues and empathy trait on spinal nociception and acute pain. *Pain* (152) : 1525-1531.
 9. Martin A., **Vachon-Presseau E.**, Pageau, C., Lepore F., Guillemot JP. (2010) Coding sound direction in noisy environment in the superior colliculus of the rat. *Neuroscience letters* 470 (1) 28-32.
 10. **Vachon-Presseau E.**, Martin A., Lepore F., Guillemot JP. (2009). Development of the Representation of Auditory Space in the Superior Colliculus of the Rat. *European Journal of Neuroscience* (29) 3 652-660.
 11. **Vachon-Presseau E.**, Achim A., Benoit-Lajoie A. (2009). Direction of SMR and Beta Change with Attention in Adults. *Journal of Neurotherapy* (13) 1 22-29.
 12. **Vachon-Presseau E.**, & Henry L. (2008). The Influences of Associative Cortices on Cross Modal Integration in the Superior Colliculus. *The Journal of Neuroscience* (28) 1787-1788.

Selected International Presentations

- **Vachon-Presseau E.**, Roy, M., Kunz, M., Martel, M.O., Sullivan M.J., Wager TD., Jackson, P.L., & Rainville P. (2013) Inverted medial prefrontal response during pain facial expression in chronic pain patients. Society for Neuroscience (San Diego, USA). 268.07/VV12.
- **Vachon-Presseau E.**, Martel, M.O., Roy, M., Marin, M.F., Caron, E., Chen J Albouy, G., Sullivan M.J., Lupien S.J. & Rainville P. (2013) Acute stress contributes to individual differences in pain-related brain activity in healthy and chronic pain patients. Cognitive Neuroscience Society (San Francisco). Poster H117.
- **Vachon-Presseau E.**, Martel, M.O., Roy, M., Marin, M.F., Caron, E., Chen J Albouy, G., Sullivan M.J., Lupien S.J. & Rainville P. (2012) Increased stress hormones are associated with functional changes in the limbic system in chronic back pain. Society for Neuroscience (New-Orlean, USA). 181.08/II20.

- **Vachon-Preseau E.**, Martel M.O., Roy M., Budell L., Sullivan M.J, Jackson P.L, & Rainville P (2011). Pain behaviors in patients with chronic back pain predict their perception of pain in others: an fMRI study. Society for Neuroscience (Washington, USA). SfN abstract 382.07/QQ32.
- **Vachon-Preseau E.**, Roy M., Martel M.O., Budell L., Chen J., Albouy G., Caron E., Sullivan M.J, Jackson P.L, & Rainville P (2011). The neural correlates of pain perceived through sensory or emotive cues. International Brain Research Organization (Florence, Italy). IBRO abstract C222.
- **Vachon-Preseau E.**, Martel M.O., Roy, M., Caron, E., Jackson, P., & Rainville, P. (2010). Vicarious pain is multi-level: Determining the influence of empathy traits on spinal nociception, autonomic responses and acute pain. Society for Neuroscience (San Diego, USA). SfN abstract 79.12/TT06.
- **Vachon-Preseau E.**, Martel M.O., Roy, M., Sullivan M.J., Jackson, P., & Rainville, P. (2010). Effects of chronic pain and pain behaviors on the sensitivity to the pain of others. Cognitive Neuroscience Society. (Montréal, Canada). CNS abstract A12.
- **Vachon-Preseau E.**, Martel M.O., Roy, M., Kunz, M., Jackson, P., & Rainville, P. (2009). The observation of pain in others modulates spinal nociception and pain unpleasantness. Society for Neuroscience (Chicago, USA). SfN abstract 653.12/Z10.
- **Vachon-Preseau E.**, Martin A., Prévost F., Robert N., Tremblay M-E., Guillemot FY., Lepore F. & Guillemot J-P. (2007) Development of the representation of auditory space in the superior colliculus. Society for Neuroscience (San Diego, USA). SfN abstract 103073.

References

Vania Apkarian

a-apkarian@northwestern.edu

Phillip Jackson

Philip.Jackson@psy.ulaval.ca

Pierre Rainville

pierre.rainville@umontreal.ca

Jean-Paul Guillemot

guillemot.jean-paul@uqam.ca