

**PUBLICATIONS DES MEMBRES DU GRSNC**  
**2008**

**Articles**

1. Abi Farah, C., I. Nagakura, D. Weatherill, X. Fan, and W. Sossin (2008). A physiological role for phosphatidic acid in the translocation of the novel protein kinase C APLII in Aplysia neurons. *Mol. Cell Biol.*, 28: 4719-4733.
2. Ajemian, R., A. Green, D. Bullock, L. Sergio, J. Kalaska, and S. Grossberg (2008). Assessing the function of motor cortex: single-neuron models of how neural response is modulated by limb biomechanics. *Neuron*, 58 (3): 414-428.
3. Alary, F., R. Goldstein, M. Duquette, C.E. Chapman, P. Voss, and F. Lepore (2008). Tactile acuity in the blind: a psychophysical study using a two-dimensional angle discrimination task. *Exp Brain Res*, 187 (4): 567-594.
4. Alaverdashvili, M., H. Leblond, S. Rossignol, and I.Q. Whishaw (2008). Cineradiographic (video X-ray) analysis of skilled reaching in a single pellet reaching task provides insight into relative contribution of body, head, oral, and forelimb movement in rats. *Behav Brain Res*, 192 (2): 232-247.
5. Antri, M., F. Auclair, J. Albrecht, N. Djeudjang, and R. Dubuc (2008). Serotonergic modulation of sensory transmission to brainstem reticulospinal cells. *Eur J Neurosci*, 28 (4): 655-667.
6. Ase, A.R., T.A. Reader, R. Hen, and L. Descarries (2008). Regionally selective changes in neurotransmitter receptors in the brain of the 5-HT<sub>1B</sub> knockout mouse. *J Chem Neuroanat*, 35: 356-363.
7. Barrière, G., H. Leblond, J. Provencher, and S. Rossignol (2008). Prominent role of the spinal central pattern generator in the recovery of locomotion after partial spinal cord injuries. *J Neurosci*, 28 (15): 3976-3987.
8. Bengio, Y. (2008). Neural net language models. *Scholarpedia*, 3 (1): 3881.
9. Bengio, Y. and J.S. Senecal (2008). Adaptive importance sampling to accelerate training of a neural probabilistic language model. *IEEE Trans Neural Netw*, 19 (4): 713-722.
10. Beuter, A., R. Hernandez, R. Rigal, J. Modolo, and P.J. Blanchet (2008). Postural sway and effect of levodopa in early Parkinson's disease. *Can J Neurol Sci*, 35 (1): 65-68.
11. Birca, A., L. Carmant, A. Lortie, P. Vannasing, and M. Lassonde (2008). Gamma frequency SSVEP components differentiate children with febrile seizures from normal controls. *Epilepsia*, 49 (11): 1946-1949.
12. Blanchet, P.J., R. Popovici, F. Guitard, P.H. Rompre, C. Lamarche, and G.J. Lavigne (2008). Pain and denture condition in edentulous orodyskinesia: comparisons with tardive dyskinesia and control subjects. *Mov Disord*, 23 (13): 1837-1842.
13. Bouvier, D., A.T. Corera, M.E. Tremblay, M. Riad, M. Chagnon, K.K. Murai, E.B. Pasquale, E.A. Fon, and G. Doucet (2008). Pre-synaptic and post-synaptic localization of EphA4 and EphB2 in adult mouse forebrain. *J Neurochem*, 106 (2): 682-695.

14. Carmant, L. (2008). Assessing ketosis: approaches and pitfalls. *Epilepsia*, 49 Suppl 8: 20-22.
15. Carmant, L. (2008). Assessing ketosis: approaches and pitfalls. *Epilepsia*, 49 Suppl 8: 20-22.
16. Castellucci, V.F. (2008). Animal models and behaviour: their importance for the study of memory. *Prog Brain Res*, 169: 269-275.
17. Chatel-Chaix, L., K. Boulay, A.J. Mouland, and L. Desgroseillers (2008). The host protein Staufen1 interacts with the Pr55Gag zinc fingers and regulates HIV-1 assembly via its N-terminus. *Retrovirology*, 5: 41.
18. Chong, M., M. Liao, and P. Drapeau (2008). The vesicular integral protein-like gene is essential for development of a mechanosensory system in zebrafish. *Dev Neurobiol*, 68 (12): 1391-1405.
19. Cisek, P. (2008). A remarkable facilitating effect of parietal damage. *Neuron*, 58 (1): 7-9.
20. Cohen-Adad, J., H. Benali, G. Barrière, H. Leblond, R.D. Hoge, and S. Rossignol (2008). Développement clinique de l'IRM du tenseur de diffusion de la moelle épinière dans un contexte de lésion médullaire. *IRBM*, 29 (4): 255-260.
21. Cohen-Adad, J., H. Benali, R.D. Hoge, and S. Rossignol (2008). In vivo DTI of the healthy and injured cat spinal cord at high spatial and angular resolution. *Neuroimage*, 40 (2): 685-697.
22. Cohen-Adad, J., M. Descoteaux, S. Rossignol, R.D. Hoge, R. Deriche, and H. Benali (2008). Detection of multiple pathways in the spinal cord using q-ball imaging. *Neuroimage*, 42 (2): 739-749.
23. Dal Bo, G., N. Bérubé-Carrières, J.A. Mendez, M. Riad, L. Descarries, D. Lévesque, and L.-E. Trudeau (2008). The glutamatergic phenotype of mesencephalic dopamine neurons is enhanced following a neonatal 6-hydroxydopamine lesion. *Neuroscience*, 156 (1): 59-70.
24. Daoust, R., P. Beaulieu, C. Manzini, J.M. Chauny, and G. Lavigne (2008). Estimation of pain intensity in emergency medicine: a validation study. *Pain*, 138 (3): 565-570.
25. Delivet-Mongrain, H., H. Leblond, and S. Rossignol (2008). Effects of localized intraspinal injections of a noradrenergic blocker on locomotion of high decerebrate cats. *J Neurophysiol*, 100 (2): 907-921.
26. Dépeault, A., M. Meftah el, and C.E. Chapman (2008). Tactile speed scaling: contributions of time and space. *J Neurophysiol*, 99 (3): 1422-1434.
27. Descarries, L., N. Berube-Carriere, M. Riad, G.D. Bo, J.A. Mendez, and L.E. Trudeau (2008). Glutamate in dopamine neurons: synaptic versus diffuse transmission. *Brain Res Rev*, 58 (2): 290-302.
28. Desjardins, G. and Y. Bengio (2008). Empirical Evaluation of Convolutional RBMs for Vision. *DIRO, Université de Montréal*, tech. report number 1327.
29. Drew, T., J.E. Andujar, K. Lajoie, and S. Yakovenko (2008). Cortical mechanisms involved in visuomotor coordination during precision walking. *Brain Res Rev*, 57 (1): 199-211.

30. Drew, T., J. Kalaska, and N. Krouchev (2008). Muscle synergies during locomotion in the cat: a model for motor cortex control. *J Physiol*, 586 (5): 1239-1245.
31. Dubuc, R., F. Brocard, M. Antri, K. Fenelon, J.F. Gariépy, R. Smetana, A. Menard, D. Le Ray, G. Viana Di Prisco, E. Pearlstein, M.G. Sirota, D. Derjean, M. St-Pierre, B. Zielinski, F. Auclair, and D. Veilleux (2008). Initiation of locomotion in lampreys. *Brain Res Rev*, 57 (1): 172-182.
32. Duquette, M., P. Rainville, F. Alary, M. Lassonde, and F. Lepore (2008). Ipsilateral cortical representation of tactile and painful information in acallosal and callosotomized subjects. *Neuropsychologia*, 46 (8): 2274-2279.
33. Dutra, K.M., F.J. Pereira Jr, P.H. Rompre, N. Huynh, N. Fleming, and G.J. Lavigne (2008). Oro-facial activities in sleep bruxism patients and in normal subjects: a controlled polygraphic and audio-video study. *J Oral Rehabil*.
34. Farah, C.A. and N. Leclerc (2008). HMWMAP2: new perspectives on a pathway to dendritic identity. *Cell Motil Cytoskeleton*, 65 (7): 515-527.
35. Farah, C.A., I. Nagakura, D. Weatherill, X. Fan, and W.S. Sossin (2008). Physiological role for phosphatidic acid in the translocation of the novel protein kinase C Apl II in *Aplysia* neurons. *Mol Cell Biol*, 28 (15): 4719-4733.
36. Fasano, C., A. Poirier, L. DesGroseillers, and L.E. Trudeau (2008). Chronic activation of the D2 dopamine autoreceptor inhibits synaptogenesis in mesencephalic dopaminergic neurons in vitro. *Eur J Neurosci*, 28 (8): 1480-1490.
37. Frigon, A. and S. Rossignol (2008). Short-latency crossed inhibitory responses in extensor muscles during locomotion in the cat. *J Neurophysiol*, 99 (2): 989-998.
38. Frigon, A. and S. Rossignol (2008). Locomotor and reflex adaptation after partial denervation of ankle extensors in chronic spinal cats. *J Neurophysiol*, 100 (3): 1513-1522.
39. Frigon, A. and S. Rossignol (2008). Adaptive changes of the locomotor pattern and cutaneous reflexes during locomotion studied in the same cats before and after spinalization. *J Physiol*, 586: 2927-2945.
40. Frigon, A. and S. Rossignol (2008). Locomotor and reflex adaptation after partial denervation of ankle extensors in chronic spinal cats. *J Neurophysiol*, 100 (3): 1513-1522.
41. Furic, L., M. Maher-Laporte, and L. DesGroseillers (2008). A genome-wide approach identifies distinct but overlapping subsets of cellular mRNAs associated with Staufen1- and Staufen2-containing ribonucleoprotein complexes. *RNA*, 14 (2): 324-335.
42. Gallagher, A., D. Bastien, I. Pelletier, P. Vannasing, A.D. Legatt, S.L. Moshe, R. Jehle, L. Carmant, F. Lepore, R. Beland, and M. Lassonde (2008). A noninvasive, presurgical expressive and receptive language investigation in a 9-year-old epileptic boy using near-infrared spectroscopy. *Epilepsy Behav*, 12 (2): 340-346.
43. Gallagher, A., M. Lassonde, D. Bastien, P. Vannasing, F. Lesage, C. Grova, A. Bouthillier, L. Carmant, F. Lepore, R. Beland, and D.K. Nguyen (2008). Non-invasive pre-surgical investigation of a 10 year-old epileptic boy using simultaneous EEG-NIRS. *Seizure*, 17 (6): 576-582.

44. Gibbs, S.A., M.H. Scantlebury, P. Awad, P. Lema, J.B. Essouma, M. Parent, L. Descarries, and L. Carmant (2008). Hippocampal atrophy and abnormal brain development following a prolonged hyperthermic seizure in the immature rat with a focal neocortical lesion. *Neurobiol Dis*, 32 (1): 176-182.
45. Gobert, D., L. Topolnik, M. Azzi, L. Huang, F. Badeaux, L. Desgroseillers, W.S. Sossin, and J.C. Lacaille (2008). Forskolin induction of late-LTP and up-regulation of 5' TOP mRNAs translation via mTOR, ERK, and PI3K in hippocampal pyramidal cells. *J Neurochem*, 106 (3): 1160-1174.
46. Gosselin-Kessiby, N., J. Messier, and J.F. Kalaska (2008). Evidence for automatic on-line adjustments of hand orientation during natural reaching movements to stationary targets. *J Neurophysiol*, 99 (4): 1653-1671.
47. Gros-Louis, F., J. Kriz, E. Kabashi, J. McDearmid, S. Millecamps, M. Urushitani, L. Lin, P. Dion, Q. Zhu, P. Drapeau, J.P. Julien, and G.A. Rouleau (2008). Als2 mRNA splicing variants detected in KO mice rescue severe motor dysfunction phenotype in Als2 knock-down zebrafish. *Hum Mol Genet*, 17 (17): 2691-2702.
48. Heydecke, G., J.M. Thomason, M.A. Awad, J.P. Lund, and J.S. Feine (2008). Do mandibular implant overdentures and conventional complete dentures meet the expectations of edentulous patients? *Quintessence Int*, 39 (10): 803-809.
49. Holbrook, W.P., P. Brodin, I. Balciuniene, V. Brukiene, M.V. Bucur, E. Corbet, J. Dillenberg, D. Djukanovic, K. Ekanayake, H. Eriksen, J. Fisher, G. Goffin, P. Hull, T. Kumchai, P. Lumley, J. Lund, V. Mathur, A. Novaes, Jr., A. Puriene, V. Roger-Leroi, I. Saito, S. Turner, and L. Mabelya (2008). Balancing the role of the dental school in teaching, research and patient care; including care for underserved areas. *Eur J Dent Educ*, 12 Suppl 1: 161-166.
50. Huh, C.Y., M. Danik, F. Manseau, L.E. Trudeau, and S. Williams (2008). Chronic exposure to nerve growth factor increases acetylcholine and glutamate release from cholinergic neurons of the rat medial septum and diagonal band of Broca via mechanisms mediated by p75NTR. *J Neurosci*, 28 (6): 1404-1409.
51. Jarjour, A.A., S.J. Bull, M. Almasieh, S. Rajasekharan, K.A. Baker, J. Mui, J.P. Antel, A. Di Polo, and T.E. Kennedy (2008). Maintenance of axo-oligodendroglial paranodal junctions requires DCC and netrin-1. *J Neurosci*, 28 (43): 11003-11014.
52. Jomphe, C., M. Gabriac, T.M. Hale, L. Heroux, L.E. Trudeau, D. Deblois, E. Montell, J. Verges, and P. du Souich (2008). Chondroitin sulfate inhibits the nuclear translocation of nuclear factor-kappaB in interleukin-1beta-stimulated chondrocytes. *Basic Clin Pharmacol Toxicol*, 102 (1): 59-65.
53. Kalaska, J.F. (2008). Neuroscience: Brain control of a helping hand. *Nature*, 453 (7198): 994-995.
54. Khalifa, S., M. Roy, P. Rainville, S. Dalla Bella, and I. Peretz (2008). Role of tempo entrainment in psychophysiological differentiation of happy and sad music? *Int J Psychophysiol*, 68 (1): 17-26.

55. Khiat, A., Y. Kuznetsov, P.J. Blanchet, and Y. Boulanger (2008). Diffusion-weighted imaging and magnetization transfer imaging of tardive and edentulous orodyskinesia. *Mov Disord*, 23 (9): 1281-1285.
56. Kinirons, P., D.J. Verlaan, M.P. Dube, J. Poirier, C. Deacon, A. Lortie, J.F. Clement, R. Desbiens, L. Carmant, C. Cieuta-Walti, M. Shevell, G.A. Rouleau, and P. Cossette (2008). A novel locus for idiopathic generalized epilepsy in French-Canadian families maps to 10p11. *Am J Med Genet A*, 146A (5): 578-584.
57. Krouchev, N.I., H.L. Galiana, and J.F. Kalaska (2008). Principal component analysis of M1 neurophysiology data suggests a motor-control system-architecture template. *Conf Proc IEEE Eng Med Biol Soc*, 1: 1724-1728.
58. Krouchev, N.I., J.F. Kalaska, and H.L. Galiana (2008). A functional approach to modeling M1 single-unit activity recorded in three primate motor control studies. *Conf Proc IEEE Eng Med Biol Soc*, 1: 5526-5530.
59. Kunz, M., C. Chatelle, S. Lautenbacher, and P. Rainville (2008). The relation between catastrophizing and facial responsiveness to pain. *Pain*, 140 (1): 127-134.
60. Lavigne, G., C. Manzini, and R. Heinzer (2008). La persistance d'activités motrices périodiques lors du sommeil paradoxal et les dommages ou blessures corporels. *Neuropsychol* 7(2): 56-62.
61. Lavigne, G.J., S. Khoury, S. Abe, T. Yamaguchi, and K. Raphael (2008). Bruxism physiology and pathology: an overview for clinicians. *J Oral Rehabil*, 35 (7): 476-494.
62. Le Roux, N. and Y. Bengio (2008). Representational power of restricted boltzmann machines and deep belief networks. *Neural Comput*, 20 (6): 1631-1649.
63. Le Vasseur, M., I. Ran, and J.C. Lacaille (2008). Selective induction of metabotropic glutamate receptor 1- and metabotropic glutamate receptor 5-dependent chemical long-term potentiation at oriens/alveus interneuron synapses of mouse hippocampus. *Neuroscience*, 151 (1): 28-42.
64. Lebeau, G., M. Maher-Laporte, L. Topolnik, C.E. Laurent, W. Sossin, L. Desgroseillers, and J.C. Lacaille (2008). Staufen1 regulation of protein synthesis-dependent long-term potentiation and synaptic function in hippocampal pyramidal cells. *Mol Cell Biol*, 28 (9): 2896-2907.
65. Marc, I., P. Rainville, B. Masse, R. Verreault, L. Vaillancourt, E. Vallee, and S. Dodin (2008). Hypnotic analgesia intervention during first-trimester pregnancy termination: an open randomized trial. *Am J Obstet Gynecol*, 199 (5): 469 e461-469.
66. McDavid, S., D. Verdier, J.P. Lund, and A. Kolta (2008). Electrical properties of interneurons found within the trigeminal motor nucleus. *Eur J Neurosci*, 28 (6): 1136-1145.
67. Mendez, J.A., M.J. Bourque, G. Dal Bo, M.L. Bourdeau, M. Danik, S. Williams, J.C. Lacaille, and L.E. Trudeau (2008). Developmental and target-dependent regulation of vesicular glutamate transporter expression by dopamine neurons. *J Neurosci*, 28 (25): 6309-6318.
68. Morquette, J.B. and A. Di Polo (2008). Dendritic and synaptic protection: is it enough to save the retinal ganglion cell body and axon? *J Neuroophthalmol*, 28 (2): 144-154.

69. Nagakura, I., J. Ormond, and W.S. Sossin (2008). Mechanisms regulating ApTrkl, a Trk-like receptor in *Aplysia* sensory neurons. *J Neurosci Res*, 86 (13): 2876-2883.
70. Okura, K., G.J. Lavigne, N. Huynh, C. Manzini, D. Fillipini, and J.Y. Montplaisir (2008). Comparison of sleep variables between chronic widespread musculoskeletal pain, insomnia, periodic leg movements syndrome and control subjects in a clinical sleep medicine practice. *Sleep Med*, 9 (4): 352-361.
71. Paquet, F., M.A. Bedard, M. Levesque, P.L. Tremblay, M. Lemay, P.J. Blanchet, P. Scherzer, S. Chouinard, and J. Fillion (2008). Sensorimotor adaptation in Parkinson's disease: evidence for a dopamine dependent remapping disturbance. *Exp Brain Res*, 185 (2): 227-236.
72. Parent, M. and L. Descarries (2008). Acetylcholine innervation of the adult rat thalamus: distribution and ultrastructural features in dorsolateral geniculate, parafascicular, and reticular thalamic nuclei. *J Comp Neurol*, 511 (5): 678-691.
73. Pelkey, K.A., L. Topolnik, X.Q. Yuan, J.C. Lacaille, and C.J. McBain (2008). State-dependent cAMP sensitivity of presynaptic function underlies metaplasticity in a hippocampal feedforward inhibitory circuit. *Neuron*, 60 (6): 980-987.
74. Pelletier, J.G. and J.C. Lacaille (2008). Long-term synaptic plasticity in hippocampal feedback inhibitory networks. *Prog Brain Res*, 169: 241-250.
75. Perri, R., V. Huta, L. Pinchuk, C. Pinchuk, D.J. Ostry, and J.P. Lund (2008). Initial Investigation of the relation between extended computer use and temporomandibular joint disorders. *J Can Dent Assoc*, 74 (7): 643.
76. Rainville, P. (2008). Hypnosis and the analgesic effect of suggestions. *Pain*: 134, 131-132.
77. Reynolds, A., E. Brustein, M. Liao, A. Mercado, E. Babilonia, D.B. Mount, and P. Drapeau (2008). Neurogenic role of the depolarizing chloride gradient revealed by global overexpression of KCC2 from the onset of development. *J Neurosci*, 28 (7): 1588-1597.
78. Riad, M., L. Rbah, M. Verdurand, N. Aznavour, L. Zimmer, and L. Descarries (2008). Unchanged density of 5-HT(1A) autoreceptors on the plasma membrane of nucleus raphe dorsalis neurons in rats chronically treated with fluoxetine. *Neuroscience*, 151 (3): 692-700.
79. Rossignol, S., G. Barriere, A. Frigon, D. Barthelemy, L. Bouyer, J. Provencher, H. Leblond, and G. Bernard (2008). Plasticity of locomotor sensorimotor interactions after peripheral and/or spinal lesions. *Brain Res Rev*, 57 (1): 228-240.
80. Roy, M., I. Peretz, and P. Rainville (2008). Emotional valence contributes to music-induced analgesia. *Pain*, 134 (1-2): 140-147.
81. Sanchez-Carbente Mdel, R. and L. Desgroseillers (2008). Understanding the importance of mRNA transport in memory. *Prog Brain Res*, 169: 41-58.

82. Sapieha, P., M. Sirinyan, D. Hamel, K. Zaniolo, J.S. Joyal, J.H. Cho, J.C. Honore, E. Kermorvant-Duchemin, D.R. Varma, S. Tremblay, M. Leduc, L. Rihakova, P. Hardy, W.H. Klein, X. Mu, O. Mamer, P. Lachapelle, A. Di Polo, C. Beausejour, G. Andelfinger, G. Mitchell, F. Sennlaub, and S. Chemtob (2008). The succinate receptor GPR91 in neurons has a major role in retinal angiogenesis. *Nat Med*, 14 (10): 1067-1076.
83. Schepens, B., P. Stapley, and T. Drew (2008). Neurons in the pontomedullary reticular formation signal posture and movement both as an integrated behavior and independently. *J Neurophysiol*, 100 (4): 2235-2253.
84. Serrano, A., R. Robitaille, and J.-C. Lacaille (2008). Astrocyte subtype-specific modulation by NMDA in mouse hippocampus. *Glia* 56: 1648-1663.
85. Serrano, A., R. Robitaille, and J.C. Lacaille (2008). Differential NMDA-dependent activation of glial cells in mouse hippocampus. *Glia*, 56 (15): 1648-1663.
86. Shi, Z., M. Rudzinski, K. Meerovitch, F. Lebrun-Julien, E. Birman, A. Di Polo, and H.U. Saragovi (2008). Alpha-2 macroglobulin is a mediator of retinal ganglion cell death in glaucoma. *Journal of Biological Chemistry*, 283: 29156-29165.
87. Sibon, I., C. Benkelfat, P. Gravel, N. Aznavour, N. Costes, S. Mzengeza, L. Booij, G. Baker, J.P. Soucy, L. Zimmer, and L. Descarries (2008). Decreased [<sup>18</sup>F]MPPF binding potential in the dorsal raphe nucleus after a single oral dose of fluoxetine: a PET study in healthy volunteers. *Biol Psychiatry*, 63: 1135-1140.
88. Simon, D., K.D. Craig, F. Gosselin, P. Belin, and P. Rainville (2008). Recognition and discrimination of prototypical dynamic expressions of pain and emotions. *Pain*, 135 (1-2): 55-64.
89. Sossin, W.S. (2008). Defining memories by their distinct molecular traces. *Trends Neurosci*, 31 (4): 170-175.
90. Sossin, W.S. (2008). Molecular memory traces. *Prog Brain Res*, 169: 3-25.
91. Sossin, W.S., J.C. Lacaille, V.F. Castellucci, and S. Belleville (2008). The Essence of Memory. Preface. *Prog Brain Res*, 169: ix-x.
92. Thivierge, J.P. and P. Cisek (2008). Nonperiodic synchronization in heterogeneous networks of spiking neurons. *J Neurosci*, 28 (32): 7968-7978.
93. Ting, J.A., A. D'Souza, K. Yamamoto, T. Yoshioka, D. Hoffman, S. Kakei, L. Sergio, J. Kalaska, M. Kawato, P. Strick, and S. Schaal (2008). Variational Bayesian least squares: an application to brain-machine interface data. *Neural Netw*, 21 (8): 1112-1131.

## Chapitres de livres

1. Cisek, P. (2008). The affordance competition hypothesis: A framework for embodied behavior” In R. Klatzky, M. Behrmann, and B. MacWhinney (Eds.) *Embodiment, Ego-Space, and Action*. In: *New York - Psychology Press*, pp. 203-246.
2. Descarries, L., N. Bérubé-Carrière, M. Riad, G. Dal Bo, J.A. Mendez, and L.E. Trudeau (2008). Glutamate in dopamine neurons: synaptic versus diffuse transmission. In: *Communication and Integration in the Basal Ganglia*, K. Fuxe, L.F. Agnati, F. Mora, and R. Schwarcz (Eds.), pp. 290-302, *Brain Res. Rev.*
3. Descarries, L. and N. Mechawar (2008). Structural organization of monoamine and acetylcholine neuron systems in the rat CNS. In: *Handbook of Neurochemistry and Molecular Neurobiology*, A. Lajtha (Ed.), pp. 1-20, Springer: New York.
4. Lebrun-Julien, F. and A. Di Polo (2008). Molecular and cell-based approaches for neuroprotection in glaucoma. In: *Optom Vis Sci*, pp. 417-424.
5. Lobbezoo, F., P.J. Blanchet, and G.J. Lavigne (2008). Management of movement disorders related to orofacial pain. In: *Orofacial Pain: From Basic Science to Clinical Management*, B. Sessle, G. Lavigne, J. Lund, and R. Dubner (Eds.), pp. 211-217, Quintessence Publishing Co.: Carol Stream, Illinois.
6. Lund, J.P., G. Murray, P. Svensson, B.J. Sessle, G.J. Lavigne, J.P. Lund, and R.E. Dubner (2008). Pain and Motor Reflexes. In: *Orofacial Pain: from Basic Science to Clinical Management*. pp. 109-116, Quintessence: Chicago.
7. Lund, J.P., B.J. Sessle, G.J. Lavigne, J.P. Lund, and R.E. Dubner (2008). Persistent Pain and Motor Dysfunction. In: *Orofacial Pain: from Basic Science to Clinical Management*. pp. 117-124, Quintessence: Chicago.
8. Rainville, P. (2008). Measurement of Pain. In: *Orofacial pain: from basic science to clinical management; Transfer of knowledge in pain research to teaching in dentistry*, G. Lavigne, J.P. Lund, R. Dubner, and B.J. Sessle (Eds.), pp. 79-85, Quintessence Publishing: Carol Stream, IL.
9. Rainville, P. and I. Marc (2008). Hypnotic analgesia. In: *The Senses: A comprehensive Handbook, Vol 5, Pain*, A. Basbaum, A. Kanedo, G.M. Shepherd, and G. Westheimer (Eds.), pp. 1009-1016, Academic Press: San Diego.
10. Sossin, W.S., J.C. Lacaille, V.F. Castellucci, and S. Belleville (2008). Essence of memory. In: *Progress in Brain Research*, p. 424.



## Résumés de communication

1. Almasieh, M., N. Zabouri, C. Casanova, M. Kelly, and A. Di Polo (2008). Is there a relationship between neuronal and vascular protection in experimental glaucoma? *Society for Neuroscience: Abstract*. Washington, D.C.
2. Almasieh, M., Y. Zhou, C. Casanova, and A. Di Polo (2008). Galantamine: A Novel Structural and Functional Neuroprotectant for Injured Retinal Ganglion Cells and Optic Nerve in Glaucoma. *Canadian Association for Neuroscience Meeting* Montreal, Canada.
3. Barrière, G., J. Cohen-Adad, H. Benali, and S. Rossignol (2008). A dual lesion paradigm to study spinal cord injury (SCI) in cats using electrophysiological and imaging methods. *CDRF's 3rd Spinal Cord Symposium*. Atlanta, USA.
4. Bélair, E.-L., J. Vallée, and R. Robitaille (2008). Bidirectional plasticity of glial cells following long-term modifications of synaptic efficacy. *Deuxième congrès de CAN*. Montréal.
5. Bennouna, F. and L.-E. Trudeau (2008). Études des interactions entre le récepteur D2 de la dopamine et les canaux potassiques Kv1.2. *Journée de la Recherche du Département de Pharmacologie*. Université de Montréal.
6. Bertrand, S., M. Tartas, F. Morin, J.-C. Lacaille, and J.-R. Cazalets (2008). Noradrenergic modulation of membrane properties and synaptic integration of lumbar motoneurons in the neonatal rat spinal cord.
7. Bérubé-Carrière, N., M. Riad, G. Dal Bo, D. Lévesque, L.-É. Trudeau, and L. Descarries (2008). Regression of the dual dopamine-glutamate phenotype of mesencephalic neurons in mature brain. *Society for Neuroscience: Abstract*. Washington, D.C.
8. Bérubé-Carrière, N., M. Riad, G. Dal Bo, D. Lévesque, L.-É. Trudeau, and L. Descarries (2008). Régression avec l'âge du phénotype glutamatergique des neurones mésencéphaliques à dopamine. *25e Journée Scientifique Dép. Pathol. Biol. Cell*. Université de Montréal, Québec.
9. Bouab, M., A. Aumont, and K. Fernandes (2008). Stem cells in the adult brain: characterization of their in vivo niche and their responses to growth factors. *Retraite du Centre d'excellence en neuromique de l'Université de Montréal (CENUM)*. Ste-Adèle.
10. Bouab, M., A. Aumont, and K. Fernandes (2008). Cellular characterization of proliferating neural precursors in the adult mammalian brain. *Association Canadienne des Neurosciences*. Montréal.
11. Bougie, J., T. Lim, C. Abi Farah, V. Manjunath, I. Nagakura, and W. Sossin (2008). The role of atypical protein kinase C (PKC) zeta in synaptic plasticity in *Aplysia* *Society for Neuroscience: Abstract*. San Diego, CA.
12. Boulay, K., W. Viranaicken, C. Fréchina, and L. DesGroseillers (2008). L'expression de Staufen1 est régulée en fonction du cycle cellulaire : un rôle potentiel dans la mitose. *Rencontre scientifique Simon-Pierre Noël*. Département de biochimie, Université de Montréal.
13. Bull, S.J., M. Almasieh, A. Di Polo, and T.E. Kennedy (2008). Oligodendroglial expression of DCC is required for the organization of paranodal junctions in vivo. *World Congress on Treatment and Research in Multiple Sclerosis, A/E/LA/CTRIMS*. Montreal, Canada.

14. Bull, S.J., M. Almasieh, S. Rajasekharan, B. Morquette, A. Di Polo, and T.E. Kennedy (2008). Oligodendroglial expression of DCC is required for the organization of paranodal junctions in vivo. *Canadian Association for Neuroscience Meeting* Montreal, Canada.
15. Caram-Salas, N.L., A. Kolta, and J.P. Lund (2008). Evaluation of chronic pain induced by injections of acidic saline into the masseter muscles of rats. *Society for Neuroscience: Abstract*.
16. Carmant, L., A. Elie, M. Sévère, D. Santos-Viloria, and D. Rivera (2008). A proposal to improve epilepsy care in Haïti. *Can J Neurol Sci*.
17. Carmant, L., J.W. Wheless, and S.D. Collins (2008). Magnetic resonance imaging abnormalities in infants treated with vigabatrin for infantile spasms (Accepted for presentation). *American Epilepsy Society meeting*.
18. Chapados, N. and Y. Bengio (2008). Augmented Functional Time Series Representation and Forecasting with Gaussian Processes. *NIPS 2007*.
19. Cisek, P., S. El-Murr, and G.A. Puskas (2008). Decision-making in changing conditions : evidence against temporal integration models. *Society for Neuroscience: Abstract*. Washington, D.C.
20. Cohen-Adad, J., M. Descoteaux, R. Deriche, S. Rossignol, H. R.D., and H. Benali (2008). Q-ball imaging of the spinal cord *16th International Society for magnetic Resonance in Medicine (ISMRM)*. Toronto, Canada.
21. Cohen-Adad, J., M. Descoteaux, S. Rossignol, R.D. Hoge, R. Deriche, and H. Benali (2008). Detection of multiple pathways in the spinal cord white matter using Q-Ball imaging. *5th IEEE International Symposium on Biomedical Imaging*. Paris, France.
22. Cohen-Adad, J., C. Gauthier, H. Benali, S. Rossignol, and R.D. Hoge (2008). BOLD signal responses to controlled hypercapnia in human spinal cord. *16th International Society for magnetic Resonance in Medicine (ISMRM)*. Toronto, Canada.
23. Cohen-Adad, J., S. Rossignol, H. Benali, and H. R.D. (2008). In vivo assessment of spinal cord integrity using magnetic resonance diffusion tensor imaging. *31st Annual Conference CMBEC*. Montreal, Canada.
24. Cybulska-Klosowicz, A., F. Tremblay, W. Jiang, S. Bourgeon, E.-M. Meftah, and C.E. Chapman (2008). *Society for Neuroscience: Abstract*. Washington, D.C.
25. Dal Bo, G. and L.-E. Trudeau (2008). Études in vitro du rôle de la cotransmission dopamine-glutamate dans la survie des neurones dopaminergiques. *Journée de la Recherche du Département de Pharmacologie*. Université de Montréal.
26. Derjean, D., A. Moussaddy, E. Atallah, M. St-Pierre, X. Ren, S. Chang, F. Auclair, B. Zielinski, and R. Dubuc (2008). Olfactory-locomotor transformations in lampreys. *Society for Neuroscience: Abstract*. Washington, D.C.
27. Derjean, D., A. Moussady, E. Atallah, M. St-Pierre, X. Ren, S. Chang, F. Auclair, B. Zilinski, and R. Dubuc (2008). Neural pathways and mechanisms underlying olfactory-locomotor transformations in lampreys. *International Symposium on Olfaction and Taste (ISOT)*.

28. Doucet, G. (2008). Séminaire sur invitation *Guidage des axones sérotoninergiques dans le prosencéphale et le mésencéphale murins*. Centre de recherche Université Laval Robert-Giffard, Québec, QC.
29. Drew, T. and D.S. Marigold (2008). The effect of manipulation of visual input on the discharge activity of cells in the posterior parietal cortex during voluntary gait modifications in the cat. *Society for Neuroscience: Abstract*. Washington, D.C.
30. Duerden, E.G., J.M. Fu, P. Rainville, and G.H. Duncan (2008). Activation Likelihood Estimation Map of Pain-Evoked Functional Brain Imaging Data in Healthy Subjects: A Meta-Analysis. *International Association for the Study of Pain, Glasgow*.
31. Duerden, E.G., J.M. Fu, P. Rainville, and G.H. Duncan (2008). Activation Likelihood Estimation Map of Pain-Evoked Functional Brain Imaging Data in Healthy Subjects: A Meta-Analysis. *The 12th International Association for the Study of Pain (IASP)*. World Congress, Glasgow.
32. Duerden, E.G., J.M. Fu, P. Rainville, and G.H. Duncan (2008). Meta-Analysis of Pain-Evoked Brain Activation using Likelihood Estimation Maps in Healthy Subjects. *McGill Pain Day*. Montreal, Québec.
33. Duerden, E.G., M. Piché, K.J. Worsley, G.H. Duncan, and P. Rainville (2008). Increased cortical thickness associated with inhibitory spinal nociceptive processes. *Society for Neuroscience: Abstract*. Washington D.C.
34. El-Murr, S., G.A. Puskas, and P. Cisek (2008). Making decisions as the evidence is changing. *2nd Annual Canadian Neuroscience Meeting*. Montréal, Qc.
35. Fasano, C., M.-J. Bourque, M. Haber, K.K. Murai, and L.-E. Trudeau (2008). The presence of dopaminergic neurons increases dendritic spine formation by striatal medium spiny neurons in culture. *Society for Neuroscience: Abstract*. Washington, D.C.
36. Fasano, C., D. Thibault, and L.-E. Trudeau (2008). Biphasic effect of chronic and acute dopamine D2 autoreceptor activation on p70-S6 kinase activity in HEK293 cells. *2nd annual meeting of the Canadian Association for Neuroscience*. Montréal.
37. Fasano, C., D. Thibault, and L.-E. Trudeau (2008). Régulation biphasique de l'activité de la p70-S6 kinase par le récepteur D2 de la dopamine. *Journée de la Recherche du Département de Pharmacologie*. Université de Montréal.
38. Fernandes, K. and (2008). Neural stem cells and their niches. Montréal, Canada. Centre de recherche du Centre Hospitalier de l'Université de Montréal (CHUM) Hôpital Notre-Dame.
39. Fiset, J.F., J. Toutant, S. Dugré-Brisson, L. DesGroseillers, and B. Chabot (2008). hnRNP A1 and hnRNP H act in synergy to modulate splicing decisions. RNA east-coast meeting. Hôtel Chéribourg, Mont Orford, Québec.
40. Fortier-Poisson, P. and A.M. Smith (2008). Single neuron activity in somatosensory cortex recorded during tactile exploration in the monkey. *Society for Neuroscience: Abstract*. Washington, D.C.

41. Fortin, G., J.A. Mendez, and L.-E. Trudeau (2008). Régulation de l'expression du transporteur vésiculaire VGluT2 dans les neurones dopaminergiques. *Journée de la Recherche du Département de Pharmacologie*. Université de Montréal.
42. Frigon, A. and G. J.-P. (2008). The effects of stimulating sensory inputs from muscles crossing the hip joint on the fictive locomotor cycle in the cat. *Society for Neuroscience: Abstract*. Washington, D.C.
43. Frigon, A. and G. J.-P. (2008). Stimulating sensory inputs from muscles crossing the hip joint influences phase onsets and duration during fictive locomotion in the cat. *Congrès Moelle épinière: Fonction, réparation et réadaptation après lésions*. Montréal.
44. Frigon, A., S. Rossignol, and J.-P. Gossard (2008). The involvement of spinal reflex pathways in the recovery of locomotion following spinal cord injury. *CDRF Symposium*. Atlanta, GA USA.
45. Fulton, S., J.A. Mendez, F. Bennouna, N. Lahaie, D. Thibault, M. Bouvier, B. Tempel, and L.-E. Trudeau (2008). Contribution of Kv1.1 and 1.2 voltage-gated potassium channels to D2 autoreceptor regulation of axonal dopamine release. *2nd annual meeting of the Canadian Association for Neuroscience*. Montréal.
46. Gariépy, J.F., S. Chevallier, S. Gascon, M. Robert, F. Auclair, J.P. Lund, and Dubuc.R. (2008). Central mechanism for pre-programming increases of respiratory drive in relation to movements. *Society for Neuroscience: Abstract*. Washington, D.C.
47. Grant, J.A., E.G. Duerden, G.H. Duncan, and P. Rainville (2008). Cortical thickness, absorption and mindfulness in advanced Zen meditators. *Society for Neuroscience: Abstract*. Washington, D.C.
48. Grant, J.A., E.G. Duerden, G.H. Duncan, and P. Rainville (2008). Cortical thickness and pain sensitivity in advanced Zen meditators. *The 12th International Association for the Study of Pain (IASP) World Congress*, Glasgow.
49. Grant, J.A., E.G. Duerden, G.H. Duncan, and P. Rainville (2008). Cortical thickness and pain sensitivity in advanced Zen meditators. *16e Journée scientifique du Centre de recherche en neuropsychologie et cognition (CERNEC)*. St-Sauveur Québec.
50. Grant, J.A., E.G. Duerden, G.H. Duncan, and P. Rainville (2008). Cortical thickness and pain sensitivity in advanced Zen meditators *McGill Pain Day*. Montreal, Québec.
51. Green, A., R. Shadmehr, and J. Kalaska (2008). Converting errors into predictive changes in motor cortex. *2nd Annual Meeting of the Canadian Association for Neuroscience*. Montreal.
52. Gritsenko, V., G. Duncan, J.F. Kalaska, and P. Cisek (2008). Primary motor cortex is involved in compensation for limb dynamics. *Transcranial Magnetic Stimulation and Neuroimaging in Cognition and Behavior*. Montréal, Qc.
53. Gritsenko, V., G.H. Duncan, J.F. Kalaska, and P. Cisek (2008). Primary motor cortex is involved in compensation for limb dynamics. *North American Symposium on Transcranial Magnetic Stimulation and Neuro Imaging in Cognition and Behavior*. Montreal.

54. Haufler, D., F. Morin, J.-C. Lacaille, and F. Skinner (2008). Characterizing the transient K<sup>+</sup> current contribution to subthreshold membrane potential oscillations in a hippocampal interneuron model. *Seventeenth Annual Computational Neuroscience Meeting CNS\*2008*. Portland, OR, USA.
55. Juvin, L., D. Le Ray, T. Boutin, F. Auclair, and R. Dubuc (2008). State-dependent modulation of sensory transmission in the brainstem of lampreys. *Society for Neuroscience: Abstract*. Washington, D.C.
56. Kawai, Y., H. Murakami, J.P. Lund, and J.S. Feine (2008). Cost-efficiency of two methods of fabricating conventional dentures. *J. Dent. Res.*
57. Kortleven, C., J.-C. Lacaille, and L.-E. Trudeau (2008). Les endocannabinoïdes et le GABA régulent l'induction de la potentialisation à long terme dans les neurones dopaminergiques de souris. *Journée de la Recherche du Département de Pharmacologie*. Université de Montréal.
58. Kortleven, C., L.-C. Lacaille, and L.-E. Trudeau (2008). Endocannabinoids and GABA regulate induction of long-term potentiation of glutamatergic synapses onto mouse ventral tegmental area dopamine neurons *Society for Neuroscience: Abstract*. Washington, D.C.
59. Kortleven, K., J.-C. Lacaille, and L.E. Trudeau (2008). Endocannabinoids and GABA regulate induction of long-term potentiation of glutamatergic synapses onto mouse ventral tegmental area dopamine neurons. *2nd Annual Meeting of CAN-ACN*. Montréal, Canada.
60. Krouchev, N.I. and J.F. Kalaska (2008). Principal component analysis (PCA) of motor cortex neural activity during elbow movements in different force fields provides insight into the nature of key feed-forward and feedback components in the neural control of movement. *Society for Neuroscience: Abstract*. Washington, D.C.
61. Lacoste, B., M. Riad, and L. Descarries (2008). Trafficking of substance P NK1 receptors in serotonin neurons of rats treated with the antagonist RP67580. *Society for Neuroscience: Abstract*. Washington, D.C.
62. Lacoste, B., M. Riad, and L. Descarries (2008). Trafic des récepteurs NK1 de la substance P dans les neurones à sérotonine du cerveau de rat sous l'action de l'antagoniste RP67580. *25e Journée Scientifique Dép. Pathol. Biol. Cell*. Université de Montréal, Québec.
63. Lapointe, G. and L. DesGroseillers (2008). Characterization of protein partners of Staufen2 in neurons. *Neurobiology and genetics of developmental brain diseases*. 30ième interational symposium. GRSNC, Montréal.
64. Larochelle, H. and Y. Bengio (2008). Classification using Discriminative Restricted Boltzmann Machines. *International Conference on Machine Learning*.
65. Larochelle, H., D. Erhan, and Y. Bengio (2008). Zero-data Learning of New Tasks. *AAAI Conference on Artificial Intelligence*.
66. Laverdure-Dupont, D., A.-A. Dubé, J. Montplaisir, G. Lavigne, and P. Rainville (2008). Psychophysical comparison of hypnotic and placebo analgesia. *The 12th International Association for the Study of Pain (IASP)*. World Congress, Glasgow.

67. Laverdure-Dupont, D., E.G. Duerden, A.-A. Dubé, K.J. Worsley, G.H. Duncan, G. Lavigne, and P. Rainville (2008). Brain morphometric differences associated with pain catastrophizing. *Society for Neuroscience: Abstract*. Washington D.C.
68. Le Roux, N., Y. Bengio, P. Lamblin, M. Joliveau, and B. Kégl (2008). Learning the 2-D Topology of Images. *NIPS 2007*.
69. Le Roux, N., P.-A. Manzagol, and Y. Bengio (2008). Topmoumoute online natural gradient algorithm. *NIPS 2007*.
70. Lebeau, G., M. Maher-Laporte, L. Topolnik, C.E. Laurent, W. Sossin, L. DesGroseillers, and J.-C. Lacaille (2008). Staufen1 regulation of protein synthesis-dependent long-term potentiation and synaptic function in hippocampal pyramidal cells. *Keystone symposium on Translational regulatory mechanisms*. Coeur d'Alene, Idaho USA.
71. Lebrun-Julien, F., H.U. Saragovi, and A. Di Polo (2008). Regulation of injured retinal ganglion cell death via a p75NTR-dependent mechanism: potential role of Müller glia. *Canadian Association for Neuroscience Meeting* Montreal, Canada.
72. Lebrun-Julien, F., H.U. Saragovi, and A. Di Polo (2008). Inhibition of p75NTR in glia potentiates TrkA-mediated survival of injured retinal ganglion cells. *Society for Neuroscience: Abstract*. Washington, D.C.
73. Maher-Laporte, M. and L. DesGroseillers (2008). Characterization of Staufen2 ribonucleoprotein (RNP) complexes in neuronal dendrites. *Neurobiology and genetics of developmental brain diseases / 30ième interational symposium du GRSNC*. Montréal.
74. Maher-Laporte, M., L. Furic, and L. DesGroseillers (2008). Comparaison des ARNm présents dans les complexes ribonucléoprotéiques de Staufen1 et Staufen2. *Rencontre scientifique Simon-Pierre Noël*. Département de biochimie, Université de Montréal.
75. Marigold, D.S. and T. Drew (2008). Response of Posterior Parietal Cortex cells to Manipulations of Visual Information during Obstacle Avoidance in the Cat. *Canadian Association for Neuroscience*. Montreal, Quebec, Canada.
76. Marigold, D.S. and T. Drew (2008). Response of Posterior Parietal Cortex cells to Visual Occlusion during Obstacle Avoidance in the Cat. *Society for the Neural Control of Movement*. Naples, Florida, USA.
77. McAdadm, R., F. Young, V. Blandford, and W. Sossin (2008). Role of Synaptotagmin-Dynamin interaction in mammalian synaptic vesicle endocytosis *Society for Neuroscience: Abstract*. San Diego, CA.
78. Meftah el, M., S. Bourgeon, M.L. Lemieux, and C.E. Chapman (2008). The time course for the direction of attention to tactile stimuli. *Society for Neuroscience: Abstract*. Washington, D.C.
79. Mendez, A., M.-J. Bourque, and T. L.-E. (2008). Somatodendritic dopamine release requires synaptotagmine 4 and 7 and the participation of voltage-gated calcium channels. *Society for Neuroscience: Abstract*. Washington, D.C.

80. Mendez, J.A., M.-J. Bourque, and L.-E. Trudeau (2008). Synaptotagmin 4 and 7 are required for somatodendritic dopamine release in cultured dopamine neurons *2nd annual meeting of the Canadian Association for Neuroscience*. Montréal.
81. Michelet, T., H. Théoret, and P. Cisek (2008). Corticospinal excitability reflects response competition during a decision-making task. *2nd Annual Canadian Neuroscience Meeting*. Montréal, QC.
82. Michelet, T., H. Théoret, and P. Cisek (2008). Corticospinal excitability reflects response competition during a decision-making task. *18th Annual Meeting on Neural Control of Movement*. Naples, FL.
83. Morisse, G., J. Bertrand, J. King, R. Lippé, D. Anderson, N. Leclerc, and (2008). Role of Tau in the endocytic pathway along the axon. *Canadian Neuroscience Meetings*. Montréal, Québec, Canada.
84. Morquette, B.J., A.R. McKinney, and A. Di Polo (2008). Dendritic remodelling in the adult retina following axonal injury in vivo. *Society for Neuroscience: Abstract*. Washington, D.C.
85. Nicolae, T.L., J. Sirois, and J.-P. Gossard (2008). Propagation des potentiels d'action dans les branches d'afférences primaires de la moelle épinière de chat. *Congrès annuel des stagiaires de la Faculté de Médecine*.
86. Ollivier, M.L., M.F. Dubois, P. Cossette, M. Krajinovic, and L. Carmant (2008). Risk factors for valproic acid non-response in childhood absence epilepsy (Accepted for presentation). *American Epilepsy Society meeting*.
87. Pastor-Bernier, A. and P. Cisek (2008). Kinematic consequences of decision-making in monkeys. *Society for Neuroscience: Abstract*. Washington, D.C.
88. Pastor-Bernier, A. and P. Cisek (2008). Kinematic effects of decision-making in monkeys. *2nd Annual Canadian Neuroscience Meeting*. Montréal, Qc.
89. Perreault, S., E. Boudes, P. Diadori, D. Nguyen, P. Major, Y. Patenaude, Y. Boulanger, and L. Carmant (2008). 3T-MRI, MRS and glutamate levels in temporal lobe epilepsy. *Can J Neurol Sci*.
90. Piché, M., M. Arsenault, P. Poitras, P. Rainville, and M. Bouin (2008). Visceral hyperalgesia is associated with somatic hyperalgesia and deficits in pain modulation in patients with irritable bowel syndrome (IBS). *Digestive Disease Week 2008, American Gastroenterological Association*. San Diego, CA.
91. Piché, M., M. Arsenault, and P. Rainville (2008). Cortical regulation of somatosomatic and somatoautonomic reflexes in fonctional Magnetic Resonance Imaging. *Association of Chiropractic Colleges Educational Conference XV, Research Agenda Conference XIII*. Washington DC.
92. Pinard, A. and R. Robitaille (2008). Contrôle nitrinergique de la modulation glutamatergique à la jonction neuromusculaire de vertébré. *Deuxième congrès de CAN*. Montréal.

93. Ran, I., Laplante I., M. Costa-Mattioli, J. Pelletier, N. Sonenberg, and J.-C. Lacaille (2008). Persistent transcription- and translation-dependent long-term potentiation induced by mGluR1 in hippocampal interneurons. Proceedings 6th International Meeting on Metabotropic Glutamate Receptors. Taormina, Italy.
94. Ran, I., Laplante I., M. Costa-Mattioli, J. Pelletier, N. Sonenberg, and J.-C. Lacaille (2008). A transcription- and translation-dependent late form of chemically-induced long-term potentiation at hippocampal interneuron excitatory synapses.
95. Ravel-Chapuis, A., G. Bélanger, J. Cote, C.A. Thornton, L. DesGroseillers, and B.J. Jasmin (2008). The RNA-binding protein Staufeu : a new player in myotonic dystrophy type 1? . Congrès Myologie, Marseille, France.
96. Riad, M. and L. Descarries (2008). Internalization, desensitization and resensitization of 5-HT1A autoreceptors upon acute and chronic treatment with the antidepressant fluoxetine. *Society for Neuroscience: Abstract*. Washington, D.C.
97. Rivest, F., Y. Bengio, and J.F. Kalaska (2008). Learning timing in reinforcement learning model of dopamine responses in appetitive fixed-delay classical conditioning. *Society for Neuroscience: Abstract*.
98. Rossignol, S. and G. Barrière (2008). Implication of the spinal pattern generator in the recovery of locomotion after partial spinal cord lesion in cats. *6th FENS*. Geneva, Switzerland.
99. Roy, C., P. Rainville, and F. Gosselin (2008). Recognizing static and dynamic facial expressions of pain: Gaze-tracking and Bubbles experiments. *Vision Science Society Annual Meeting Naples FL, USA*.
100. Roy, M., M. Piché, J.I. Chen, I. Peretz, G.H. Duncan, and P. Rainville (2008). Affective modulation of pain-evoked brain activity. *Society for Neuroscience: Abstract*. Washington, D.C.
101. Ryan, J., M. Lachance, and L. Saint-Amant (2008). Rôle des canaux voltage dépendants dans le développement des circuits moteurs chez l'embryon du poisson zébré *PBC Journée Scientifique Abstract*
102. Sanchez-Carbente, M., W.S. Sossin, and L. DesGroseillers (2008). Roles of DEAD box 3 proteins in organizing RNA granules in neurons. *Neurobiology and genetics of developmental brain diseases / 30ième international symposium du GRSNC*. Montréal.
103. Scavarda, D., P. Major, A. Lortie, C. Mercier, and L. Carmant (2008). The value of peri insular hemispherotomy in the treatment of stroke induced pediatric refractory epilepsy : a report of seven cases. *XXIst Biennial Meeting of the European Society of Pediatric Neurosurgery*. Montreux, Switzerland.
104. Schweinhardt, P., D.A. Seminowicz, E. Jaeger, A. Kuchinad, G.H. Duncan, and M.C. Bushnell (2008). Placebo Analgesia and Personality: The Ventral Striatum Links 'Dopaminergic' Character Traits To Pain Relief. *International Association for the Study of Pain*. Glasgow.
105. Sirois, J., T.L. Nicolae, and J.-P. Gossard (2008). Reticulospinal control of presynaptic inhibition in primary afferents during fictive locomotion in the cat. *Society for Neuroscience: Abstract*. Washington, D.C.



106. Sirois, J., T.L. Nicolae, and J.-P. Gossard (2008). Modulation of presynaptic inhibition evoked by reticulospinal pathways during fictive locomotion in the cat. *Congrès Moelle épinière: Fonction, réparation et réadaptation après lésions*. Montréal.
107. Sirois, J., T.L. Nicolae, and J.-P. Gossard (2008). Convergence des inputs sensoriels et réticulospinaux sur les réseaux de l'inhibition présynaptique chez le chat. *Congrès annuel des stagiaires de la Faculté de Médecine*.
108. Smith, A.M. and P. Fortier-Poisson (2008). Deployment of fingertip forces by a monkey performing a tactile exploration task. *Society for Neuroscience: Abstract*. Washington, D.C.
109. Taschereau-Dumouchel, V., C. Roy, F. Gosselin, and P. Rainville (2008). Les composantes de l'expression faciale de la douleur essentielles à la modulation de la douleur de l'observateur. *16e Journée scientifique du Centre de recherche en neuropsychologie et cognition (CERNEC)*. St-Sauveur Québec.
110. Thibault, D., G. Pineyro, and L.-E. Trudeau (2008). Neurotensin Regulates D2 Dopamine Receptor Internalization. *2nd annual meeting of the Canadian Association for Neuroscience*. Montréal.
111. Thibault, D., G. Pineyro, and L.-E. Trudeau (2008). La neurotensine module l'internalisation du récepteur D2. *Journée de la Recherche du Département de Pharmacologie*. Université de Montréal.
112. Thibault, D., G. Pineyro, and L.-E. Trudeau (2008). Neurotensin regulates D2 dopamine receptor internalization. *Society for Neuroscience: Abstract*. Washington, D.C.
113. Torabi, A., G.A. Bilodeau, M. Lévesque, J.M.P. Langlois, P. Lema, and L. Carmant (2008). TMeasuring animal body temperature in thermographic video using particle filter tracking (Accepted for presentation). *International Symposium on Visual Computing (ISVC 2008)*. Las Vegas, Nevada, USA.
114. Tremblay, M.E., M. Riad, and G. Doucet (2008). Localization of EphA4 in postnatal rat hippocampus. *2nd Annual Meeting of CAN-ACN*. Hilton Montréal Bonaventure Hotel, Montréal.
115. Truong, V., A. Aumont, S. Décary, R. Bergeron, and K. Fernandes (2008). Examination of the effects of voluntary running on neural precursor populations of the adult nervous system. *Association Canadienne des Neurosciences*. Montréal.
116. Truong, V., M. Bednarczyk, A. Aumont, and K. Fernandes (2008). Characterization of adult spinal cord stem cells and their in vivo niche. *Moelle épinière : fonction, réparation et réadaptation après lésions* Montréal.
117. Vincent, P., H. Larochelle, Y. Bengio, and P.A. Manzagol (2008). Extracting and Composing Robust Features with Denoising Autoencoders. *International Conference on Machine Learning proceedings*.
118. Wallman, M.-J., M. Parent, L. Descarries, and A. Parent (2008). Serotonin innervation of the subthalamic nucleus in monkey and human. *Can J Neurol Sci*.

119. Weatherill, D., J. Dyer, and W. Sossin (2008). S6K-, not 4E-BP-, signaling mediates the TORC1-dependent increase in translation necessary for 24-hour long-term facilitation *Society for Neuroscience: Abstract*. San Diego, CA.
120. Xie, G., M. Piché, J. Cohen-Adad, M. Khoshejad, V. Perlberg, R. Hoge, H. Benali, S. Rossignol, and P. Rainville (2008). Characterizing and controlling for physiological noise in human cervical spinal fMRI in response to noxious stimuli. *Society for Neuroscience: Abstract*. Washington, D.C.
121. Yakovenko S and D. T. (2008). Control of posture in motor cortex. . *In: 2nd Annual Meeting C CAN-ACN*. Montréal, Canada.
122. Ziat, M., V. Hayward, C.E. Chapman, M. Ernst, and C. Lenay (2008). Revisiting the fingertip-fovea analogy. *European Conference on Visual Perception*. Utrecht, Netherlands.
123. Zielinski, B., X. Ren, W. Green, A. Laframboise, and R. Dubuc (2008). Glomerular mapping in the sea lamprey evidence for two spatially distinct neural inputs. *International Symposium on Olfaction and Taste (ISOT)*.