

## Axe maladies cardiovasculaires

### Publications 2008 - 2009

#### **Bkaily, G. :**

1. **Bkaily G**, Choufani S, Avedanian L, Ahmarani L, Nader M, Jacques D, D'Orléans-Juste P, Al Khoury J. Nonpeptidic antagonists of ETA and ETB receptors reverse the ET-1-induced sustained increase of cytosolic and nuclear calcium in human aortic vascular smooth muscle cells. *Can J Physiol Pharmacol.* 2008 Aug;; 86(8):546-56.
2. **Bkaily G**, Avedanian L, Jacques D. Nuclear membrane receptors and channels as targets for drug development in cardiovascular diseases. *Can J Physiol Pharmacol.* 2009 Feb; 87(2):108-19.

#### **Boulay, G.**

1. Marc P. Lussier, Pascale K. Lepage, and **Guylain Boulay**. RNF24, a new interacting TRPC protein, causes the intracellular retention of TRPC6. *Cell Calcium*, Vol 43, pp. 432-443 (2008).
2. Alexandre P. Blanchard, Gaétan Guillemette, and **Guylain Boulay**. Memantine potentiates agonist-induced Ca<sup>2+</sup> responses in HEK293 cells. *Cellular Physiology and Biochemistry*, Vol. 22, pp. 205-214 (2008).
3. \*Pascale K. Lepage, Marc P. Lussier, François-Olivier McDuff, Pierre Lavigne, and **Guylain Boulay**. The self-association of two N-terminal interaction domains plays an important role in the tetramerization of TRPC4. *Cell Calcium*, Vol. 45, pp. 251-259 (2009).
4. \*Nathalie Nguyen, Nancy Francoeur, Klaus Klarskov, Gaétan Guillemette, and **Guylain Boulay**. Insulin promotes Hsp90 binding to the inositol 1,4,5-trisphosphate receptor and dampens its Ca<sup>2+</sup> release activity. *Endocrinology*, Vol. 150, pp. 2190-2196 (2009).

#### **D'Orléans-Juste, P. :**

1. Tirapelli CR, Legros E, Brochu I, Honoré JC, Lanchote VL, Uyemura SA, de Oliveira AM, **D'Orléans-Juste P**. Chronic ethanol intake modulates vascular levels of endothelin-1 receptor and enhances the pressor response to endothelin-1 in anaesthetized rats. *Br J Pharmacol.* 2008 Jul; 154(5):971-81.
2. Simard E, Jin D, Takai S, Miyazaki M, Brochu I, **D'Orléans-Juste P**. Chymase-dependent conversion of Big endothelin-1 in the mouse in vivo. *J Pharmacol Exp Ther.* 328(2):540-8, 2009

#### **Dumaine, R. :**

1. Barajas-Martinez, Hector. Haufe, Volker. Chamberland, Caroline. Roy, Marie-Josée Blais. Fecteau, Marie Helene. Cordeiro, Jonathan M. **Dumaine, Robert**. Larger dispersion of INA in female dog ventricle as a mechanism for gender-specific incidence of cardiac arrhythmias. *Cardiovascular Research.* 81(1):82-9, 2009 Jan 1.
2. Barajas-Martinez HM, Hu D, Cordeiro JM, Wu Y, Kovacs RJ, Meltser H, Kui H, Elena B, Brugada R, Antzelevitch C, **Dumaine R**. Lidocaine-induced Brugada syndrome phenotype

linked to a novel double mutation in the cardiac sodium channel. *Circ Res.* 2008 Aug 15; 103(4):396-404.

#### **Escher, E.**

1. Clément M, Cabana J, Holleran BJ, Leduc R, Guillemette G, Lavigne P, Escher E. Activation induces structural changes in the liganded angiotensin II type 1. receptor. *J Biol Chem.* 2009 Sep 25;284(39):26603-12.
2. Wieczerek E, Hamel R Jr, Chabot V, Aimez V, Grandbois M, Charette PG, Escher E. Monitoring of native chemical ligation on solid substrate by surface Plasmon resonance. *Biopolymers.* 2008; 90(3):415-20.

#### **Gobeil Jr, Fernand :**

1. Savard M, Barbaz D, Bélanger S, Müller-Esterl W, Bkaily G, D'Orléans-Juste P, Côté J, Bovenzi V, **Gobeil F Jr.** Expression of endogenous nuclear bradykinin B2 receptors mediating signaling in immediate early gene activation. *J Cell Physiol.* 2008 Jul;216(1):234-44.
2. Bélanger S, Bovenzi V, Côté J, Neugebauer W, Amblard M, Martinez J, Lammek B, Savard M, **Gobeil F Jr.** Structure-activity relationships of novel peptide agonists of the human bradykinin B2 receptor. *Peptides.* 2009 Apr; 30(4):777-87

#### **Guillemette, G.**

1. Leclerc PC, Proulx CD, Arguin G, Bélanger S, Gobeil F jr, Escher E, Leduc R, **Guillemette G.** Ascorbic acid decreases the binding affinity of the AT1 receptor for angiotensin II. *Am J Hypertens.* 2008 Jan; 21(1):67-71.
2. Béliveau E, **Guillemette G.** Microfilament and microtubule assembly is required for the propagation of inositol trisphosphate receptor-induced Ca<sup>2+</sup> waves in bovine aortic endothelial cells. *J Cell Biochem.* 2009 Feb 1; 106(2):344-52.

#### **Lavoie, C.**

1. Boucher R, Larkin H, Brodeur J, Gagnon H, Thériault C, **Lavoie C.** Intracellular trafficking of LRP9 is dependent on two acidic cluster/dileucine motifs. *Histochem Cell Biol.* 2008 Aug; 130(2):315-27.
2. **Lavoie C,** Paiement J. Topology of molecular machines of the endoplasmic reticulum: a compilation of proteomics and cytological data. *Histochem Cell Biol.* 2008 Feb; 129(2):117-28. Review.

#### **Leduc, R. :**

1. Proulx CD, Holleran BJ, Boucard AA, Escher E, Guillemette G, Leduc R. Mutational analysis of the conserved Asp2.50 and ERY motif reveals signaling bias of the urotensin II receptor. *Mol Pharmacol.* 2008 Sep; 74(3):552-61.
2. \*Holleran BJ, Domazet I, Beaulieu ME, Yan LP, Guillemette G, Lavigne P, Escher E, Leduc R. Identification of transmembrane domain 6 & 7 residues that contribute to the binding pocket of the urotensin II receptor. *Biochem Pharmacol.* 2009 Apr 15; 77(8):1374-82.

#### **Pape, PC.**

1. Pape PC & Fénelon, K. The relatively high Ca<sup>2+</sup> flux in Ca<sup>2+</sup> sparks could be due to the Ca-binding protein calsequestrin in the sarcoplasmic reticulum. *Physiology News* 2008 Summer, 71: 31-33.