

## Cardiologie

### Subventions de recherche

Titre : Genetic dissection of heart development  
Organisme : Instituts de recherche en santé du Canada  
Montant : 300 000 \$ / 2008-2010  
Chercheur: Andelfinger G

Titre : Genetic determinants of congenital heart disease  
Organisme : Fondation des maladies du cœur du Québec  
Montant : 600 000 \$ / 2006-2010  
Chercheur: Andelfinger G

Titre : Genetic determinants of congenital heart disease  
Organisme : Instituts de recherche en santé du Canada  
Montant : 1 782 246 \$ / 2005-2010  
Chercheur: Andelfinger G

Titre : Dissection moléculaire des propriétés de KCNJ2 dans un modèle animalier transgénique  
Organisme : Fonds de la recherche en santé du Québec  
Montant : 45 000 \$ / 2006-2009  
Chercheur: Andelfinger G

Titre : Genetic determinants of congenital heart disease  
Organisme : Instituts de recherche en santé du Canada  
Montant : 465 110 \$/an / 2005-2010  
Chercheurs: Andelfinger G, Nemer M, Richter A, Rozen R (IPs), Bigras JL, Dubé MP, Khairy P (co-investigateurs)

### Publications

#### **Avec comités pairs**

Alloul S, Dahdah N, Miro J. *Thrombus in a coronary artery aneurysm shortly after warfarin withdrawal*. *Pediatr Cardiol* 2009;30(2):188-90.

Andelfinger G. *Genetic factors in congenital heart malformation*. *Clin Genet* 2008;73(6):516-27.

Bigras JL, Suda K, Dahdah NS, Fournon JC. *Cardiovascular evaluation of fetal anemia due to alloimmunization*. *Fetal Diagn Ther* 2008;24(3):197-202.

Cadrin-Tourigny J, Fournier A, Andelfinger G, Khairy P. *Severe left ventricular dysfunction in infants with ventricular preexcitation*. *Heart Rhythm* 2008;5(9):1320-2.

Christensen KE, Rohlicek CV, Andelfinger GU, Michaud J, Bigras JL, Richter A, Mackenzie RE, Rozen R. *The MTHFD1 p.Arg653Gln variant alters enzyme function and increases risk for congenital heart defects*. *Hum Mutat* 2009;30(2):212-20.

Collings KK, Van Hare GF, Kertesz NJ, Law IH, Bar-Cohen Y, Dubin AM, Etheridge SP, Berul CI, Avari JN, Tuzcu V, Sreeram N, Schaffer MS, Fournier A, Sanatani S, Snyder CS, Smith RT Jr, Arabia L, Hamilton R, Chun T, Liberman L, Kakavand B, Paul T, Tanel RE. *Pediatric nonpost-operative junctional ectopic tachycardia medical management and interventional therapies*. *J Am Coll Cardiol* 2009;53(8):690-7.

Hinton RB, Andelfinger G, Sekar P, Hinton AC, Gendron RL, Michelfelder EC, Robitaille Y, Benson DW. *Prenatal head growth and white matter injury in hypoplastic left heart syndrome*. *Pediatr Res* 2008;64(4):364-9.

Jacobs JP, Rychik J, Tulzer G, Fouron JC, Maulik D, Tworetzky W, Maruszewski B, Acharya G, Huhta JC. *A vision for an International Society for Fetal and Perinatal Cardiovascular Disease*. *Curr Opin Pediatr* 2008;20(5):532-7.

Kramoh EK, Miró J, Bigras JL, Turpin S, Lambert R, Lapierre C, Jin W, Dahdah N. *Differential pulmonary perfusion scan after percutaneous occlusion of the patent ductus arteriosus: one-decade consecutive longitudinal study from a single institution*. *Pediatr Cardiol* 2008;29(5):918-22.

Raboison MJ, Samson C, Ducreux C, Rudigoz RC, Gaucherand P, Bouvagnet P, Bozio A. *Impact of prenatal diagnosis of transposition of the great arteries on obstetric and early post natal management*. *Eur J Obstet Gynecol Reprod Biol* 2009;142(1):18-22.

Sapieha P, Sirinyan M, Hamel D, Zaniolo K, Joyal JS, Cho JH, Honoré JC, Kermorvant-Duchemin E, Varma DR, Tremblay S, Leduc M, Rihakova L, Hardy P, Klein WH, Mu X, Mamer O, Lachapelle P, Di Polo A, Beauséjour C, Andelfinger G, Mitchell G, Sennlaub F, Chemtob S. *The succinate receptor GPR91 in neurons has a major role in retinal angiogenesis*. *Nat Med* 2008;14(10):1067-76.

### **Livres et chapitres de livres**

Fouron JC. *Anomalies of the right heart*. In: Yagel S, Gembruch U, Silverman NH (eds). *Textbook of fetal cardiology*. 2<sup>nd</sup> Edition, Informa Healthcare USA Inc, New York, 2009:744p.

### **Abrégés publiés**

Mivelaz Y, Fouron JC, Fournier A, Bigras JL. *Prenatal diagnosis of Wolff-Parkinson-White syndrome by Doppler ultrasound*. *Can J Cardiol* 2008;23(Suppl.E):274.

Mivelaz Y, Fouron JC, Fournier A. *Outcome of permanent junctional reciprocating tachycardia diagnosed in the prenatal period*. *Can J Cardiol* 2008;24(suppl E):272.

Mivelaz Y, Raboison MJ, Fournier A, Fouron JC. *Invalidation of the conventional Doppler PR interval approach for monitoring fetuses at risk for congenital heart block*. *Can J Cardiol* 2008;24(suppl.E):273.

Mivelaz Y, Raboison MJ, Fournier A, Fouron JC. *Reliability of Doppler echocardiographic investigation in the diagnosis of fetuses with first degree atrioventricular block*. *Ultrasound Obstet Gynecol* 2008;32:313.

Sarquella Brugada G, Campuzano O, Gendron R, Thibeault M, Bureau N, Bigras JL, Chetaille P, Leclerc S, Riopel K, Richter A, Andelfinger G. *X-Chromosome inactivation patterns in left ventricular outflow tract obstruction: epigenetic factors of disease expression*. *Can J Cardiol* 2008;23(Suppl.E):337.

St-Pierre J, Robert M, Andelfinger E, Gamache S, Daleau P, Poirier P, Andelfinger G, Fouron JC. *Is fetal diastolic dysfunction a precursor of cardiovascular disease in adults? New evidences in gestation, diabetes*. *Can J Cardiol* 2008;24(suppl.E):296.

### **Rayonnement**

#### **Congrès - colloques**

Brousseau M, Postma A, Thibeault M, Andelfinger G. *Characterization of an autosomal recessive trait of persistent ductus arteriosus and aortic coarctation*. Congrès de la Canadian Society of Human Genetics, Harrison Hot Springs (Colombie-Britannique), mai 2009.

- Cousineau J, Dahdah N, Siles A, Fournier A, Spigelblatt L, Vartian M, Montigny M, Delvin E, Lavoie J. *A comparative study between BNP and NT-proBNP as an adjunctive diagnostic test in the acute phase of Kawasaki disease*. Meeting of the Canadian Society of Clinical Chemistry, Saint-Jean (Terre-Neuve), juin 2008.
- Dahdah N, Siles A, Cousineau J, Delvin E, Fournier A, Spigelblatt L, Vartian M, Montigny M. *BNP vs NT-proBNP cardiac markers as adjunctive diagnostic tool in the acute phase of Kawasaki disease*. 9<sup>th</sup> International Kawasaki Disease Symposium, Toronto (Ontario), octobre 2008.
- Miró J, Burke R. *Debate on percutaneous vs surgical treatment of native coarctation of the aorta*. 12<sup>th</sup> Pediatric Interventional Cardiac Symposium, Las Vegas (Nevada), juillet 2008.
- Mivelaz Y, Fournon JC, Fournier A, Bigras JL. *Prenatal diagnosis of Wolff-Parkinson-White syndrome by Doppler-ultrasound*. 61<sup>e</sup> Congrès Annuel sur la santé cardiovasculaire, Toronto (Ontario), octobre 2008.
- Mivelaz Y, Fournon JC, Fournier AF. *Outcome of permanent junctional reciprocating tachycardia diagnosed in the prenatal period*. 61<sup>e</sup> Congrès Annuel sur la santé cardiovasculaire, Toronto (Ontario), octobre 2008.
- Mivelaz Y, Raboisson MJ, Fournier A, Fournon JC. *Invalidation of the conventional Doppler PR interval approach for monitoring fetuses at risk for congenital heart block*. 61<sup>e</sup> Congrès Annuel sur la santé cardiovasculaire, Toronto (Ontario), octobre 2008.
- Mivelaz Y, Raboisson MJ, Fournier A, Fournon JC. *Reliability of Doppler echocardiographic investigation in the diagnosis of fetuses with first degree atrioventricular block*. 18<sup>e</sup> World Congress on Ultrasound in Obstetrics and Gynecology, Chicago (Illinois), août 2008.
- Noble S, Miró J, Bonan R, Cyr M, Ibrahim R. *Rapid pacing 3D angiography: use and benefits in structural heart disease interventions*. Congrès Européen de cardiologie, Munich (Allemagne), septembre 2008. Canadian Cardiovascular Congress, Toronto (Ontario), octobre 2008.
- Noble S, Miró J, De Guise P, Ibrahim R. *Stenting of aortic coarctation: a single center experience*. Canadian Cardiovascular Congress, Toronto (Ontario), octobre 2008.
- Raboisson MJ. *Syndrome d'Eisenmenger - État de la question*. 13<sup>e</sup> Congrès de la Société Marocaine de cardiologie, Marrakech (Maroc), novembre 2008.
- Sarquella Brugada G, Abadir S, Dahdah N, Khairy P, Fournier A. *Chronic dual chamber pacing improves relative aortic dilation in complete congenital heart block*. 7<sup>th</sup> National Congress of Pediatric Cardiology and Congenital Heart Disease. Salamanca (Espagne), mai 2009.
- Sarquella-Brugada G, Abadir S, Rodés-Cabau J, Houde C, Dancea A, Dahdah N, Miró J. *Aortic valvuloplasty in children: impact of rapid ventricular pacing*. 7<sup>th</sup> National Congress of Pediatric Cardiology and Congenital Heart Disease, Salamanca (Espagne), mai 2009.
- Sarquella-Brugada G, Campuzano O, Gendron R, Thibeault M, Bureau N, Bigras JL, Chetaille P, Leclerc S, Riopel K, Richter A, Andelfinger G. *X-chromosome inactivation patterns in left ventricular outflow tract obstruction: epigenetic factors of disease expression*. Canadian Cardiovascular Congress, Toronto (Ontario), octobre 2008.
- St-Pierre J, Robert M, Andelfinger E, Gamache S, Daleau P, Poirier P, Andelfinger G, Fournon JC. *Is fetal diastolic dysfunction a precursor of cardiovascular disease in adults? New evidences in gestation, diabetes*. 61<sup>e</sup> Congrès Annuel sur la santé cardiovasculaire, Toronto (Ontario), octobre 2008.
- Yang SW, Hitz MP, Provost S, Chetaille P, Thibeault M, Bureau N, Riopel K, Bigras JL, Richter A, Severson T, Marra M, Dubé M, Andelfinger G. *Septal defects and left ventricular outflow tract obstruction: evidence for a founder effect in French-Canadian families*. Congrès de la Canadian Society of Human Genetics, Harrison Hot Springs (Colombie-Britannique), mai 2009.