



Protected when completed

Date Submitted: 2013-07-26 14:23:36**Confirmation Number:** 99411**Template:** CIHR Academic

Personal Information

Identification

Professor Johanne Tremblay

Correspondence language: English

Sex: Female

Date of Birth: 5/30

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Language Skills

Language	Read	Write	Speak	Understand
English	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes

Address

The primary address is denoted by (*)

Primary Affiliation (*)
Centre de recherche Centre Hosp.de l'université de Montréal Technopôle Angus 2901 rue Rachel Est, Bureau 314 Montréal H1W 4A4 Canada, Quebec

Telephone

The primary telephone is denoted by (*)

Work (*)	514-8908000 extension: 23616
Work	514-8908000 extension: 23607

Email

The primary email is denoted by (*)

Work (*)	johanne.tremblay@umontreal.ca
----------	-------------------------------

User Profile

Disciplines Trained In: Biochemistry

Research Disciplines: Biochemistry

Areas of Research: Genomics, Hypertension, Gene-Environment Interactions, Cardiovascular Diseases

Fields of Application: Biomedical Aspects of Human Health

Research Specialization Keywords: Calcium, genetics, guanylyl cyclase, heart, molecular biology

Education

Degrees

1983/11 - 1984/4	Post-doctorate - Postdoctorate - Molecular Pharmacology - Vanderbilt University - Completed Supervisors: Dr D.L. Garbers
1982/1 - 1984/1	Post-doctorate - Postdoctorate - Molecular Pathophysiology - Clinical Research Institute of Montreal - Completed Supervisors: Dr P. Hamet
1983/3 - 1983/4	Post-doctorate - Postdoctorate - Pharmacology - Vanderbilt University - Completed Supervisors: Dr J. Wells
1977/8 - 1982/5	Doctorate - PhD - Clinical Sciences - Université de Montréal - Completed Supervisors: Dr J. Genest
1974/8 - 1977/5	Bachelor's - Bachelor's - Biochemistry - Université de Montréal - Completed Supervisors: -

Recognitions

2010/1 -	Recognition Prize - Distinction Société Québécoise d'hypertension artérielle Amount: 0
2008/1 -	Member Research, Development, Planning, Priorities - Distinction Canadian Hypertension Society Amount: 0
2006/9 -	Fellowship - Distinction Canadian Academy of health Sciences Amount: 0
2005/1 - 2007/1	President - Distinction Société québécoise d'hypertension Amount: 0
2004/10 -	Silver Heart Member distinction - Distinction American Heart Association Amount: 0

2004/1 -	Member - Distinction Editorial Board-Current Hypertension Reviews Amount: 0
2003/1 - 2005/1	Vice-President - Distinction Société québécoise d'hypertension Amount: 0
2002/10 - 2003/10	President - Distinction Canadian Hypertension Society Amount: 0
2001/10 - 2002/10	President - Distinction Club de Recherches Cliniques du Québec Amount: 0
2000/6 - 2004/6	Member of the Executive - Distinction Canadian Hypertension Society Amount: 0

Employment

Academic Work Experience

2012/9 -	Executive Member and scientific secretary International Society of Pathophysiology - Research
2007/6 -	Member Université de Montréal - Medicine - Medicine -Promotion committee
2006/7 -	Member Université de Montréal - Medicine - Scientific Evaluation Comitee, Faculty of Medicine
2001/6 -	Member Centre hospitalier de l'université de Montréal - Service of gene Medicine
2000/1 -	Coordinator Centre hospitalier de l'université de Montréal - Medicine - Cardiometabolic axis
1996/1 -	Professor Université de Montréal - Medicine - Médecine
1992/10 -	Member Centre hospitalier de l'université de Montréal - Medicine - Service of Endocrinology and Metabolism
1990/1 -	Director of Laboratory of Cellular Biology and Hypertension Centre de recherche du Centre hospitalier de l'université de montréal - Medicine - Laboratory of Cellular Biology of Hypertension
2000/11 - 2013/12	Chair Fonds de la recherche en santé du Québec - Scholarship - Evaluation committee
2008/8 - 2011/8	Chair - CSB Canadien institutes of Health Research - Cardiovascular System - B
2004/8 - 2008/8	Member - CSB Canadian Institutes of Health Research - Cardiovascular System B Committe

2005/3 - 2008/3	Adjunct Professor McGill University - Medicine - Experimental Medicine
1997/6 - 2005/6	Coordinator Fond de la recherche en santé du Québec - Hypertension Group
1999/5 - 2004/12	Member Montreal Heart Institute - Scientific committee
1998/5 - 2003/12	Member Centre de recherche du Centre hospitalier de l'université de Montréal - Comité pédagogique
2000/8 - 2002/8	Member Heart & Stroke Foundation of Canada - Senior Personnel Review committee
1999/6 - 2001/6	Scientific Officer Canadian Institutes for Health Research - Cardiovascular System A committee
1993/7 - 1998/7	Director Université de Montréal - Medicine - Biomedical Science Program
1990/1 - 1996/1	Associate Professor Université de Montréal - Medicine - Medicine

Non-academic Work Experience

2013/1 -	Chief Scientific Officer - Medpharmgene
2007/1 - 2012/11	Vice President - CSO - prognomix
2010/9 - 2012/9	Member of the Board - International Society of Pathophysiology

Affiliations

The primary affiliation is denoted by (*)

(*) 1996/1 -	Professor - Médecine - Université de Montréal
--------------	---

Research Funding History

Awarded

2010/10 - 2013/10 Co-applicant	Development of a predictive tool for micro and macrovascular complications in patients with type 2 diabetes	
	Co-applicant : Chalmers, John; Seda, Ondrej; Stanton Jean, Michèle; Wookward, Mark; Principal Applicant : HAMET, pavel	
	Funding Sources	
	2010/10 - 2013/10	Génome Québec Total Funding: 1000000 (Canadian dollar) Funding Competitive?: Yes
2010/10 - 2013/9 Principal Investigator	Telomere attrition rate as predictor of cardiovascular complications of type 2 diabetes Co-investigator : Hamet Pavel	

	<p>Funding Sources</p> <p>2010/10 - 2013/10</p> <p>Operating grant Canadian Institutes of Health Research (CIHR) Total Funding: 1454272 (Canadian dollar) Funding Competitive?: Yes</p>
2007/10 - 2012/11 Principal Investigator	<p>Molecular genetics of hypertension: the study of a candidate gene, HCaRG Co-investigator : Serguei N. Orlov</p> <p>Funding Sources</p> <p>2007/10 - 2012/11</p> <p>Operating Canadian Institutes of Health Research (CIHR) Total Funding: 582600 (Canadian dollar) Funding Competitive?: Yes</p>

Completed

2007/9 - 2010/8 Co-investigator	<p>Endogenous cardiogenic steroids: role in endothelial dysfunction and vascular remodeling Principal Investigator : ORLOV, Sergei N.</p> <p>Funding Sources</p> <p>2007/9 - 2010/8</p> <p>Operating grant Heart and Stroke Foundation of Canada (HSFC) Total Funding: 51000 (Canadian dollar) Funding Competitive?: Yes</p>
2006/11 - 2009/10 Co-investigator	<p>C1--coupled cotransporters: role in regulation of vascular smooth muscle excitation-contraction coupling Co-investigator : Hamet, Pavel; Principal Investigator : ORLOV, Sergei N.</p> <p>Funding Sources</p> <p>2006/11 - 2009/10</p> <p>Operating Grant (no funds for my Lab) Canadian Institutes of Health Research (CIHR) Total Funding: 208278 (Canadian dollar) Funding Competitive?: Yes</p>
2004/4 - 2009/10 Principal Investigator	<p>Molecular Genetics of guanylyl cyclases: candidate genes of high blood pressure in the context of metabolic syndrome Principal Investigator : J Tremblay</p> <p>Funding Sources</p> <p>2004/4 - 2009/10</p> <p>Operating Canadian Institutes of Health Research (CIHR) Total Funding: 499160 (Canadian dollar) Funding Competitive?: Yes</p>
2004/10 - 2009/9 Co-investigator	<p>Aberrant expression of hormone receptors in adrenal Cushing's syndrome Co-investigator : Bourdeau I; P Hamet; Principal Investigator : LACROIX, André</p>

	Funding Sources
2004/10 - 2009/9	Operating (no funds for my lab) Canadian Institutes of Health Research (CIHR) Total Funding: 674786 (Canadian dollar) Funding Competitive?: Yes

Under Review

2013/9 - 2018/9 Principal Applicant	Genomic predictors of renal complications of type 2 diabetes Co-applicant : Pavel Hamet Funding Sources
	2013/9 - 2018/9 Operating Grant Instituts de Recherche en Santé du Canada Total Funding: 1443124 (Canadian dollar) Funding Competitive?: Yes
2013/9 - 2018/9 Co-investigator	Optimisation des approches thérapeutiques en soins de première ligne: OPTI-THERA Co-investigator : Bartha Maria Knoppers; Jacques Turgeon; Janusz Kaczorowski; Jean Lachaine; Line Lalonde; Philip Awadalla; Véronique Michaud; Principal Applicant : Pavel Hamet Funding Sources
	2013/10 - 2018/9 Fonds de partenariat pour un Québec innovant et en santé Gouvernement Québec Total Funding: 10000000 (Canadian dollar) Funding Competitive?: Yes
2013/7 - 2018/7 Co-investigator	Hypertension at nexus of the thrifty, thirsty and accelerated ageing genotypes: evolution of a complex disease Co-investigator : Gilles Soulez; Johanne Tremblay; Collaborator : Sergei Orlov Funding Sources
	2013/7 - 2018/7 Canadian Institutes of Health Research (CIHR) Total Funding: 1000000 (Canadian dollar) Funding Competitive?: Yes
2013/10 - 2017/10 Co-applicant	Optimisation des approches thérapeutiques en soins de première ligne: OPTI-THERA Co-applicant : Bartha Knoppers; Jacques Turgeon; Janusz Kaczorowski; Jean Lachaine; Lyne Lalonde; Philip Awadalla; Véronique Michaud; Principal Applicant : Pavel Hamet Funding Sources
	2013/10 - 2017/10 Fonds de partenariat pour un Québec innovant et en santé Government of Quebec Total Funding: 18374984 (Canadian dollar) Funding Competitive?: Yes

Activities

Supervisory Activities

Student/Postdoctoral Supervision

Principal Supervisor	Godefroid Gilles - Master's Thesis - CHUM - In Progress Student Degree Start Date: 2011/5 Project Description: Genetic determinant of T2D - Bio-IT specialist Present Position: M.Sc.Student
Principal Supervisor	Matsuda Hiroyuki - Post-doctorate - CHUM - Completed Student Degree Start Date: 2009/6 Project Description: The production and breeding of transgenic mice of HCaRG (hypertension-related, calcium-regulated)
Principal Supervisor	Payotte Jean-François - Master's Equivalent - CHUM - Completed Student Degree Start Date: 2011/6 Student Degree Received Date: 2012/4 Project Description: Computational analysis of genomic markers
Co-Supervisor	Haketa Akira - Post-doctorate - CHUM - Completed Student Degree Start Date: 2009/8 Project Description: Molecular genetics of renal/hypertension/obesity triad Present Position: Health Professional
Principal Supervisor	Martel Guy - Doctorate - CHUM - Completed Student Degree Start Date: 2006/8 Student Degree Received Date: 2010/7 Project Description: Identification des protéines activatrices de la transcription Present Position: Post-doctoral - McGill
Co-Supervisor	Ivan A. Arenas, - Post-doctorate - CHUM - Completed Student Degree Start Date: 2005/10 Student Degree Received Date: 2009/12 Project Description: Genome-wide functional screening by perturbation of gene function to examine contribution of individual genes to CV phenotypes Present Position: Health Professional
Principal Supervisor	Fillion-Forté Valérie - Master's Thesis - CHUM - Completed Student Degree Start Date: 2007/7 Student Degree Received Date: 2009/8 Project Description: Influence de la variation génétique du récepteur guanylyl cyclase A (NPR1), régulation expression génique dans l'hypertension et le syndrome métabolique Present Position: Research Assistant - Biotech
Principal Supervisor	Croisetière Christian - Master's Thesis - CHUM - Completed Student Degree Start Date: 2004/9 Student Degree Received Date: 2007/12 Project Description: Caractérisation de l'expression génique calcium dépendante de HCaRG Present Position: Food industry

Principal Supervisor	Morin Evelyne - Master's Thesis - CHUM - Completed Student Degree Start Date: 2004/9 Student Degree Received Date: 2007/9 Project Description: Différence d'expression et de fonction des deux principales enzymes générant la guanosine monophosphate cyclique (GMPc), GC-A et GC-s, dans des cellules cibles spécifiques... Present Position: Research assistant
Co-Supervisor	Baldacchino Valérie - Doctorate - CHUM - Completed Student Degree Start Date: 2002/8 Student Degree Received Date: 2007/8 Project Description: Caractérisation fonctionnelle du promoteur du récepteur du Gastric Inhibitory Polypeptide (GIP) en physiologie normale et dans le tissu surrénalien du syndrome de Cushing GIP-dépendant

Advisory Activities

Mentoring Activities

1996/8 - Professor	Centre hospitalier de l'université de Montréal Number of Mentorees: 3
--------------------	--

Contributions

Presentations

2012-10-18	"Genetic pleiotropism and PDE4D in complications of diabetes", CRCHUM - Colloque Ferid Murad, Canada, Quebec, Montréal Main Audience: Researcher Invited?: Yes
2012-03-22	"Gènes communs à plusieurs complications du Diabète de Type 2", Société francophone du diabète Congress, France, Nice Main Audience: Researcher Invited?: Yes
2012-01-19	"La Société québécoise d'hypertension artérielle: 20 ans de réalisations... 1992 - 2012 / recherche fondamentale.", Annual Congress SQHA, Canada, Quebec, Québec Main Audience: Researcher Invited?: Yes
2011-10-15	"Genes linking several complications of type 2 diabetes", 12th International Congress of Human Genetics, Canada, Manitoba, Winnipeg Main Audience: Researcher Invited?: Yes
2010-04-09	"Genomic determinants of cardiovascular complications of diabetes", Symposium on Scientific Basis for the Practice of Cardiology, Czech Republic, Prague Main Audience: Researcher Invited?: Yes

2009-09-05	"Genetics of Pain and opioid responsiveness", CIRS Symposium, Canada, Quebec, Quebec Main Audience: Researcher Invited?: Yes
2009-01-29	"Fonctionnement et gestion de plateformes", Retraite des Chercheurs, Canada, Quebec, Bromont Main Audience: Researcher Invited?: Yes
2008-09-26	"From SNPs to clinically useful biomarkers for hypertension and cardiovascular complications", Mendel Symposium II, Czech Republic, Librice Main Audience: Researcher Invited?: Yes

Publications

PubMed Articles

2013-02-15	Arenas IA , Tremblay J , Deslauriers B , Sandoval J , Seda O , Gaudet D , Merlo E , Kotchen T , Cowley AW , Hamet P , "Dynamic genetic linkage of intermediate blood pressure phenotypes during postural adaptations in a founder population.", <i>Physiological genomics</i> , 45(4) PubMed ID: PM:23269701
2013-01-01	Tremblay J , Hamet P , "Role of genomics on the path to personalized medicine.", <i>Metabolism: clinical and experimental</i> , 62 Suppl 1 PubMed ID: PM:23021037
2012-07-01	Sedová L , Liška F , Křenová D , Kazdová L , Tremblay J , Krupková M , Corbeil G , Hamet P , Křen V , Seda O , "CD36-deficient congenic strains show improved glucose tolerance and distinct shifts in metabolic and transcriptomic profiles.", <i>Heredity</i> , 109(1) PubMed ID: PM:22473311
2012-06-01	Nikpay M , Seda O , Tremblay J , Petrovich M , Gaudet D , Kotchen TA , Cowley AW , Hamet P , "Genetic mapping of habitual substance use, obesity-related traits, responses to mental and physical stress, and heart rate and blood pressure measurements reveals shared genes that are overrepresented in the neural synapse.", <i>Hypertension research : official journal of the Japanese Society of Hypertension</i> , 35(6) PubMed ID: 22297481
2012-06-01	Orlov SN , Koltsova SV , Tremblay J , Baskakov MB , Hamet P , "NKCC1 and hypertension: Role in the regulation of vascular smooth muscle contractions and myogenic tone.", <i>Annals of medicine</i> , 44 Suppl 1 PubMed ID: 22713139
2012-05-04	Wu Z , Luo H , Thorin E , Tremblay J , Peng J , Lavoie JL , Wang Y , Qi S , Wu T , Wu J , "Possible role of Efnb1 protein, a ligand of Eph receptor tyrosine kinases, in modulating blood pressure.", <i>The Journal of biological chemistry</i> , 287(19) PubMed ID: 22393061

2012-02-24	Luo H , Wu Z , Tremblay J , Thorin E , Peng J , Lavoie JL , Hu B , Stoyanova E , Cloutier G , Qi S , Wu T , Cameron M , Wu J , "Receptor tyrosine kinase Ephb6 regulates vascular smooth muscle contractility and modulates blood pressure in concert with sex hormones.", <i>The Journal of biological chemistry</i> , 287(9) PubMed ID: 22223652
2012-01-01	Akimova OA , Van Huysse J , Tremblay J , Orlov SN, "Low efficiency of functional translation of ouabain-resistant #2-Na(+),K(+)-ATPase mRNA in C7-MDCK epithelial cells.", <i>Canadian journal of physiology and pharmacology</i> , 90(1) PubMed ID: 22188474
2012-01-01	Koltsova SV , Trushina Y , Haloui M , Akimova OA , Tremblay J , Hamet P , Orlov SN, "Ubiquitous [Na(+)](i)/[K(+)](i)-Sensitive Transcriptome in Mammalian Cells: Evidence for Ca(2+) (i)-Independent Excitation-Transcription Coupling.", <i>PloS one</i> , 7(5) PubMed ID: 22666440
2012-01-01	Maurice RL , Dahdah N , Tremblay J, "Imaging-based biomarkers: characterization of post-kawasaki vasculitis in infants and hypertension phenotype in rat model.", <i>International journal of vascular medicine</i> , 2012 PubMed ID: PM:22919495
2011-11-01	Matsuda H , Lavoie JL , Gaboury L , Hamet P , Tremblay J, "HCaRG accelerates tubular repair after ischemic kidney injury.", <i>Journal of the American Society of Nephrology : JASN</i> , 22(11) PubMed ID: 21921141
2010-10-01	Tremblay J , Hamet P, "Genetics of pain, opioids, and opioid responsiveness.", <i>Metabolism: clinical and experimental</i> , 59 Suppl 1 PubMed ID: 20837195
2010-07-02	Martel G , Hamet P , Tremblay J, "GREBP, a cGMP-response element-binding protein repressing the transcription of natriuretic peptide receptor 1 (NPR1/GCA).", <i>The Journal of biological chemistry</i> , 285(27) PubMed ID: PM:20444705
2010-07-01	Lacroix A , Bourdeau I , Lampron A , Mazzuco TL , Tremblay J , Hamet P, "Aberrant G-protein coupled receptor expression in relation to adrenocortical overfunction.", <i>Clinical endocrinology</i> , 73(1) PubMed ID: 19719763
2010-03-01	Orlov SN , Tremblay J , Hamet P, "NKCC1 and hypertension: a novel therapeutic target involved in the regulation of vascular tone and renal function.", <i>Current opinion in nephrology and hypertension</i> , 19(2) PubMed ID: 20061948
2010-03-01	Orlov SN , Gossard F , Pausova Z , Akimova OA , Tremblay J , Grim CE , Kotchen JM , Kotchen TA , Gaudet D , Cowley AW , Hamet P, "Decreased NKCC1 activity in erythrocytes from African Americans with hypertension and dyslipidemia.", <i>American journal of hypertension</i> , 23(3) PubMed ID: 20044742
2010-01-01	Martel G , Hamet P , Tremblay J, "Central role of guanylyl cyclase in natriuretic peptide signaling in hypertension and metabolic syndrome.", <i>Molecular and cellular biochemistry</i> , 334(1-2) PubMed ID: 19937369

2010-01-01	Akimova OA , Tremblay J , Van Huysse JW , Hamet P , Orlov SN, "Cardiotonic steroid-resistant alpha1-Na ⁺ ,K ⁺ -ATPase rescues renal epithelial cells from the cytotoxic action of ouabain: evidence for a Na ⁺ ,K ⁺ -independent mechanism.", <i>Apoptosis : an international journal on programmed cell death</i> , 15(1) PubMed ID: 19949978
2009-12-01	Beetz N , Harrison MD , Brede M , Zong X , Urbanski MJ , Sietmann A , Kaufling J , Lorkowski S , Barrot M , Seeliger MW , Vieira-Coelho MA , Hamet P , Gaudet D , Seda O , Tremblay J , Kotchen TA , Kaldunski M , Nüsing R , Szabo B , Jacob HJ , Cowley, "Phosducin influences sympathetic activity and prevents stress-induced hypertension in humans and mice.", <i>The Journal of clinical investigation</i> , 119(12) PubMed ID: 19959875
2009-11-01	Akimova OA , Lopina OD , Rubtsov AM , Gekle M , Tremblay J , Hamet P , Orlov SN, "Death of ouabain-treated renal epithelial cells: evidence for p38 MAPK-mediated Na (i) (+) /K (i) (+) -independent signaling.", <i>Apoptosis : an international journal on programmed cell death</i> , 14(11) PubMed ID: 19784777
2009-09-01	Koltsova SV , Maximov GV , Kotelevtsev SV , Lavoie JL , Tremblay J , Grygorczyk R , Hamet P , Orlov SN, "Myogenic tone in mouse mesenteric arteries: evidence for P2Y receptor-mediated, Na(+), K (+), 2Cl (-) cotransport-dependent signaling.", <i>Purinergic signalling</i> , 5(3) PubMed ID: 19387869
2009-07-01	Chauvet C , Ménard A , Tremblay J , Xiao C , Shi Y , L'Heureux N , Cardin S , Tardif JC , Nattel S , Deng AY, "Cardiac pathways distinguish two epistatic modules enacting BP quantitative trait loci and candidate gene analysis.", <i>Hypertension research : official journal of the Japanese Society of Hypertension</i> , 32(7) PubMed ID: 19461651
2009-06-01	Pausova Z , Syme C , Abrahamowicz M , Xiao Y , Leonard GT , Perron M , Richer L , Veillette S , Smith GD , Seda O , Tremblay J , Hamet P , Gaudet D , Paus T, "A common variant of the FTO gene is associated with not only increased adiposity but also elevated blood pressure in French Canadians.", <i>Circulation. Cardiovascular genetics</i> , 2(3) PubMed ID: 20031594
2009-02-20	Koltsova SV , Kotelevtsev SV , Tremblay J , Hamet P , Orlov SN, "Excitation-contraction coupling in resistance mesenteric arteries: evidence for NKCC1-mediated pathway.", <i>Biochemical and biophysical research communications</i> , 379(4) PubMed ID: 19150334
2009-01-01	Koltsova SV , Luneva OG , Lavoie JL , Tremblay J , Maksimov GV , Hamet P , Orlov SN, "HCO ₃ -dependent impact of Na ⁺ ,K ⁺ ,2Cl ⁻ cotransport in vascular smooth muscle excitation-contraction coupling.", <i>Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology</i> , 23(4-6) PubMed ID: 19471108

2008-12-01	Hamet P , Orlov SN , Tremblay J, "Invitations for the Program: 6th International Congress of Pathophysiology, "Gene-environmental Interactions in Health and Diseases", Montréal, Québec, Canada, 27-30 June 2010.", Pathophysiology : the official journal of the International Society for Pathophysiology / ISP, 15(4) PubMed ID: 18818059
2008-10-01	Tremblay J , Hamet P, "Impact of genetic and epigenetic factors from early life to later disease.", Metabolism: clinical and experimental, 57 Suppl 2 PubMed ID: 18803962
2008-06-12	Patel A , MacMahon S , Chalmers J , Neal B , Billot L , Woodward M , Marre M , Cooper M , Glasziou P , Grobbee D , Hamet P , Harrap S , Heller S , Liu L , Mancia G , Mogensen CE , Pan C , Poulter N , Rodgers A , Williams B , Bompont S , de Galan BE, "Intensive blood glucose control and vascular outcomes in patients with type 2 diabetes.", The New England journal of medicine, 358(24) PubMed ID: PM:18539916
2008-04-15	Seyrantepe V , Hinek A , Peng J , Fedjaev M , Ernest S , Kadota Y , Canuel M , Itoh K , Morales CR , Lavoie J , Tremblay J , Pshezhetsky AV, "Enzymatic activity of lysosomal carboxypeptidase (cathepsin) A is required for proper elastic fiber formation and inactivation of endothelin-1.", Circulation, 117(15) PubMed ID: 18391110
2008-04-01	Seda O , Tremblay J , Gaudet D , Brunelle PL , Gurau A , Merlo E , Pilote L , Orlov SN , Boulva F , Petrovich M , Kotchen TA , Cowley AW , Hamet P, "Systematic, genome-wide, sex-specific linkage of cardiovascular traits in French Canadians.", Hypertension, 51(4) PubMed ID: 18259002
2008-02-01	Seda O , Sedová L , Oliyarnyk O , Kazdová L , Krenová D , Corbeil G , Hamet P , Tremblay J , Kren V, "Pharmacogenomics of metabolic effects of rosiglitazone.", Pharmacogenomics, 9(2) PubMed ID: 18370844
2008-02-01	Thifault S , Ondrej S , Sun Y , Fortin A , Skamene E , Lalonde R , Tremblay J , Hamet P, "Genetic determinants of emotionality and stress response in AcB/BcA recombinant congenic mice and in silico evidence of convergence with cardiovascular candidate genes.", Human molecular genetics, 17(3) PubMed ID: 17913702
2008-01-01	Akimova OA , Lopina OD , Tremblay J , Hamet P , Orlov SN, "Altered phosphorylation of RRXS*/T* motif in ouabain-treated renal epithelial cells is not mediated by inversion of the [Na](i)/[K+](i) ratio.", Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology, 21(4) PubMed ID: 18441520

Journal Articles

2013/7 In Press Co-Author	Hamet P, Tremblay J, "Can genetics influence the choice of antihypertensive combination therapy?", Medicographia Refereed?: No
---------------------------------	---

2013/5 Submitted Co-Author	Nikpay M, Seda O, TREMBLAY J, Gaudet D, Kotchen T, Cowley Jr A, Hamet P, "Genetic annotation of obesity measures in siblings with and without hypertension.", Circulation Research Refereed?: No
2013/4 Submitted Co-Author	Wu J, Wang Y, Thorin E, TREMBLAY J, Lavoie J, Hungyu L, Peng J, Realsen J, George, Munroe PB, Stoyanova K, Zhao Q, Cloutier G, Bradley E, Hamet P, Qica SJ, "Blood pressure modulation by Efnb3 protein in concert with sex hormones: evidence from gene knockout mice and blood pressure-associated single nucleotide polymorphisms in EFNB3 related genes in 69,395 human subjects.", Circulation Research Refereed?: No
2013/2 Submitted Co-Author	Haketa A, TREMBLAY J, Dumas P, Šeda O, Matsuda H, Noël A, Nikpay M, Cowley AW, Kotchen TM, Gaudet D, Hamet P, "Hypertension-specific genetic association of adult height and its decline: A family-based association study.", Hypertension Refereed?: No
2013/2 Revision Requested Co-Editor	Malard L, Kakinami L, O'Loughlin J, Roy-Gagnon MH, Labbe A, Pilote L, Hamet P, TREMBLAY J, Paradis G., "The association between the angiotensin-converting enzyme-2 gene and blood pressure in a cohort study of adolescents.", BMC Medical Genetics Refereed?: No
2012/11 Submitted Last Author	Matsuda H, Hamet P, TREMBLAY J, "Hypertension-related, calcium-regulated gene (HCaRG/COMMD5) and kidney diseases: HCaRG accelerates tubular repair", Current Hypertension Reviews Refereed?: Yes
2012/11 In Press Co-Author	Haloui M, TREMBLAY J, Seda O, Maksimov GV, Orlov SN, Hamet P, "Increased renal ENaC expression and activity correlate with elevation of blood pressure in spontaneously hypertensive rats", Hypertension Refereed?: Yes
2009/5 Published Last Author	Hamet P, TREMBLAY J, "Will ADVANCE population genomic determinants improve upon biomarkers in predicting vascular complications of diabetes?", Medicographia Refereed?: Yes
2008/10 Published First Listed Author	TREMBLAY J, Hamet P, "Impact of genetic and epigenetic factors from early life to later disease", Metabolism Clinical and Experimental Refereed?: Yes

Book Chapters

2011/11 Published Co-Author	"Radio-Telemetry in Biomedical Research-Radio-Telemetry Blood Pressure Measurements in Animal Models of Hypertension, How It Revolutionized Hypertension Research", Modern Telemetry, Ondrej Krejcar; Intech, Rijeka, Croatia Refereed?: Yes Authors: 252. Dumas P, Chiche D, TREMBLAY J, SedaO, Peng J, Hamet P
2010/9 Published Last Author	"La génomique permettra-t-elle de mieux choisir nos médicaments?", Turbulences dans la chaîne des médicaments, S. Liber, Montréal Refereed?: Yes Authors: Hamet P, TREMBLAY J

Conference Publications

2012/10 Published Last Author	Cossette S, Croisetière C, El Hader C, Tremblay S, Solban N, Baudoin G, MO'Brien-Miro M, Hamet P, TREMBLAY J, "HCaRG interaction with actin promotes renal cell migration" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2012/10 In Press Co-Author	Ivanga M, Sandoval J, Idaghdour Y, Corbeil G, Awadalla P, Seda O, Chalmer J, Harrap S, Mc Mahon S, Marre M, Gaudet D, TREMBLAY J., Hamet P, "CNV dose dependent effect on the prevalence of hypertension and dyslipidemia comorbidity" Poster 24th Scientific Meeting of the International Society of Hypertension, Sydney, Australia Invited?: No
2012/5 Published First Listed Author	TREMBLAY J, Hamet P., "Role of Genomics in the Path to Personalized Medicine" Abstract CIRS VII Colloquium, Montebello, Québec, Canada Invited?: Yes
2012/4 Published Co-Author	Ivanga M, Sandoval J, Krajcoviechova A, Corbeil G, Cifkova, Seda O, Chalmers J, Harrap S, McMahan S, Marre M, Woodward M, Gaudet D, TREMBLAY J, Hamet P, "RAAS inhibitor/diuretic: impact on renal function cardiovascular events and mortality. 22nd European Meeting on Hypertension and Cardiovascular Prevention" Poster 2nd European Meeting on Hypertension and Cardiovascular Prevention. London, UK Invited?: No
2012/3 Published Co-Author	El Bikai R, Dumas P, Awadalla P, TREMBLAY J, Laberge C, Ste-Marie LG, Hamet P, "Évidence de risque accru d'ostéoporose dans le diabète et l'hypertension : importance de la masse musculaire" Poster Congrès de la Société française du diabète, Nice, France Invited?: Yes
2011/12 Published First Listed Author	TREMBLAY J., Šeda O., Šedová L., Haloui M., Long C., El Bassam S., Chalmers J., Harrap S., MacMahon S., Marre M., Woodward M., Hamet P, "Immuno, inflammatory, neuro, cardiovascular and diabetes pathways are associated to T2D complications in ADVANCE trial" Poster World Diabetes Congress, Dubai, Émirats arabes unis Invited?: No
2011/12 Published Co-Author	Ivanga M., Migeon E, Krajcoviechova A, TREMBLAY J, Sandoval J, Godefroid G, Chalmers J, Harrap S, MacMahon S, Marre M, Woodward M, Hamet P, "Une CNV associée à un risque accru pour le développement de complications cardiovasculaires et métaboliques" Poster 14e Congrès annuel du Centre de Recherche du CHUM, Montréal, Canada Invited?: No
2011/10 Published Co-Author	El Bikai R, Dumas P, Peng J, Koltsova S, Kren V, Pravenec M, Seda O, TREMBLAY J, Hamet P, "Assessment of a possible relation between hypertension and osteoporosis in spontaneously hypertensive rats and recombinant inbred strains" Poster Canadian Hypertension congress, Alliston, Canada Invited?: No
2011/10 Published First Listed Author	TREMBLAY J, "Genes linking several complications of type 2 Diabetes" Abstract Winnipeg Heart international congress. Winnipeg, Canada Invited?: Yes
2011/6 Published Co-Author	Arenas I, TREMBLAY J, Deslauriers B, Sandoval J, Seda O, Gaudet D, Merlo E, Kotchen T, Cowley AW Jr, Hamet P, "Dynamic genetic linkage of blood pressure phenotypes" Poster ESH Meeting, Milan, Italy Invited?: No

2011/4 Published Co-Author	El Bikai R, Dumas P, Peng J, Koltsova S, Kren V, Pravenec M, Seda O, TREMBLAY J, Hamet P, "Assessment of a possible relation between hypertension and osteoporosis in spontaneously hypertensive rats and recombinant inbred strains" Poster SkyScan User meeting, Leuven, Belgium Invited?: No
2011/3 Published Co-Author	Hamet P, TREMBLAY J, Šeda O, "Emploi des données obtenues par les études génétiques : promesses, obstacles et horizons" Abstract SFD, Genève, Suisse, Invited?: No
2011/2 Published Co-Author	Hamet P, TREMBLAY J, Seda O, "Future use of personalized medicine in development of primary prevention of cardiometabolic syndrome" Abstract International Conference on pre-Hypertension and Cardio metabolic Syndrome, Vienne, Austria Invited?: No
2010/9 Published Co-Author	Petrovich M, Cheong WS, Seda O, Bouhali T, TREMBLAY J, Bouchard G, Gaudet D, Hamet P, "Genetic predisposition to early death, a cardiovascular outcome in the French Canadian families of Saguenay Lac St-Jean" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Last Author	Haloui M, Long C, Seda O, Sedova L, Sandoval J, Caron M, Rocheleau G, Harrap S, Woodward M, Marre M, Chalmers J, Hamet P, TREMBLAY J, "PDE4D; a gene linking complications of type 2 diabetes in caucasians" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Last Author	Der Sarkissian S, Fillion-Forté V, Deng A, Hamet P, TREMBLAY J, "Nutrigenomic regulation of cardiac remodelling: effect of high fat diet on cardiac structure in dahl GCA/SCG congenic strains" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Last Author	Matsuda H, Cossette, Michel C, Peng J, Lavoie JL, Orlov S, Hamet P, TREMBLAY J, "The hypertension-related, calcium-regulated gene (HCARG) accelerates the regeneration of renal tubular epithelial cells after acute renal injury" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Akimova O, TREMBLAY J, Hamet J, Orlov S, "Activation of P38 MAPK in renal epithelial cells by cardiotoxic steroids: evidence for Na ⁺ , K ⁺ - independent pathway" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Noël A., Seda O., TREMBLAY J., Gaudet D., Kotchen T..A, Cowley A.W., Hamet P, "The impact of pharmacological environment on capacity to identify the genetic components of hypertension" Poster 23rd Scientific Meeting in the International Society of Hypertension (ISH), Vancouver Invited?: No
2010/9 Published Co-Author	Akimova O, TREMBLAY J, Van Huysse JW, Hamet P, Orlov S, "Role of α -1 and α 2-isoforms of NA,K-atpase in death signalling triggered by cardiotoxic steroids" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Luo H., Wu Z., TREMBLAY J., Thorin E., Peng J., Lavoie J., Qi S., Wu T., Cameron M., Kotlikoff M., Wu J, "EphB6 kinase and its ligand EFNBs control vascular smooth muscle contraction and regulate blood pressure through reverse signalling via EFNBs" Abstract 23rd Scientific Meeting in the International Society of Hypertension (ISH), Vancouver Invited?: No

2010/9 Published Co-Author	Nikpay M, Seda O, TREMBLAY J, Petrovich M, Gaudet D, Kotchen T, Cowley A, Hamet P, "Genetic analysis of substance use, obesity-related traits, stress response, heart rate and blood pressure revealed shared genes, overrepresented in synapses" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Koltsova S, Maximov G, Lavoie JL, Kotelevtsev S, TREMBLAY J, Grygorczyk R, Hamet P, Orlov S, "Myogenic tone in mesenteric arteries involves P2Y receptor-mediated, NKCC1-dependent signalling" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Seda O, Sedova L, Long C, Haloui M, Caron M, Sandoval J, Rocheleau G, Woodward M, Marre M, Harrap S, Chalmers, TREMBLAY J, Hamet P, "Genome-wide association and network analysis of telomere length in two distinct Caucasian cohorts" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Ivanga M., Seda O., TREMBLAY J., Sandoval J., Caron M., Chalmers J., Harrap S., MacMahon S., Marre M., Woodward M., Hamet P, "Copy number variant within VAP-1 gene in associated with hypertension and macrovascular complications of type 2 diabetes at baseline of ADVANCE trial" Poster 23rd Scientific Meeting in the International Society of Hypertension (ISH), Vancouver Invited?: No
2010/9 Published Co-Author	Orlov S.N., Haloui M, Seda O., Adarichev V.A., TREMBLAY J., Hamet P, "Transcriptomics-based search for intracellular Na ⁺ sensor involved in regulation of gene expression. Salt and hypertension(#84); Genomics and proteomics (#41)" Abstract 23rd Scientific Meeting in the International Society of Hypertension (ISH), Vancouver Invited?: No
2010/9 Published Co-Author	Fillion-Forté V, Peng J, Deng AY, Hamet P, TREMBLAY J, "Nutrigenomic effects involving a short segment of chromosome 2 containing GCA/SGC in the response to high fat diet in the dahl rat" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Koltsova S, Maximov G, Lavoie J, Kotelevtsev S, TREMBLAY J, Grygorczyk R, Hamet P, Orlov, "Miogenic tone in mesenteric arteries involves P2Y receptor-mediated, NKCC1-dependent signalling" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Haketa A, Seda O, TREMBLAY J, Gaudet D, Hamet P, "Hypertension-specific genetic association of adult height and aging changes in hypertensive and dyslipidemic french canadian families" Poster 6th International Congress of Pathophysiology, Québec, Canada Invited?: No
2010/9 Published Co-Author	Koltsova S.V., Akimova O.A., TREMBLAY J., Kotelevtsev S.V., Hamet P., Orlov S.N, "Molecular origin of Na ⁺ /Li ⁺ countertransport: evidence against Na ⁺ -coupled Pi cotransporter. Ion transport and cell calcium handling (#56)" Poster 23rd Scientific Meeting in the International Society of Hypertension (ISH), Vancouver Invited?: No

2009/9 Published Co-Author	Koltsova S.V., Maximov G.V., Lavoie J.L., Kotelevtsev S.V., TREMBLAY J., Grygorczyk R., Hamet P., Orlov S.N, "Myogenic tone in mesenteric arteries involves P ^Y receptor-mediated, NKCC1-dependent signalling. Signal transduction (#85)" Poster 3rd Scientific Meeting in the International Society of Hypertension (ISH), Vancouver Invited?: No
2009/9 Published Co-Author	Hamet P., TREMBLAY J, "Le rôle de la pharmacogénomique dans le développement et l'évaluation du médicament" Abstract 3e congrès sur la chaîne des médicaments, Milan Invited?: No
2009/6 Published Last Author	Matsuda H, Cossette S, Michel C, Peng J, Lavoie J.L., Orlov S.N., Hamet P, TREMBLAY J, "Hypertension-related, calcium-regulated Gene (HCaRG) inhibits interstitial cells proliferation following unilateral ureteral obstruction" Poster 19th European Meeting on Hypertension, Milan Invited?: No
2009/6 Published Co-Author	Martel G, Hamet P, TREMBLAY J, "Identification and characterization of a human CGMP-Response element binding protein which controls the expression of guanylyl cyclase a gene" Poster 19th European Meeting on Hypertension Invited?: No
2009/6 Published Last Author	Fillion-Forte V, Peng J, Deng A.Y., Hamet, P, TREMBLAY J, "Specific role for no and ANP receptors on the control of blood pressure, renal function and lipid profile: a study in DAHL congenic rat" Poster 19th European Meeting on Hypertension, Milan Invited?: No
2009/5 Published Co-Author	Invanga M, Seda O, Gaudet D, TREMBLAY J, Hamet P, "Genome-wide association study reveals a CNV associatted with components of the metabolic syndrome" Abstract 4th Annual Canadian Genetic Epidemiology & Statistical Genetics Meeting, Harrison Hot Spring BC, Canada Invited?: No
2009/3 Published Co-Author	Nöel A., Seda O., TREMBLAY J., Gaudet D., Kotchen T.A., Cowley A.W., Merlo E., Hamet P, "HTR2C associé à deux indices distincts de contractilité cardiaque dans la population canadienne-française" Poster 11e congrès annuel des étudiants, stagiaires et résidents du Centre de Recherche du CHUM Invited?: No
2009/3 Published Co-Author	Martel G., Hamet P, TREMBLAY J, "Identification d'un facteur nucléaire contrôlant l'expression du gène de la GC-A" Poster 11e congrès annuel des étudiants, stagiaires et résidents du Centre de Recherche du CHUM Invited?: No
2009/3 Published Co-Author	Ivanga M., Seda O., Gaudet D., TREMBLAY J., Hamet P, "CNV et syndrome métabolique chez des familles québécoises hypertendues" Poster 11e congrès annuel des étudiants, stagiaires et résidents du Centre de Recherche du CHUM Invited?: No
2009/3 Published Co-Author	Nikpay M., Seda J., TREMBLAY J, Hamet P, "Genetic analysis of habitual substance use and response to psychological and physical stress in french canadian families reveals commons pathwaws of synaptic plasticity at glutamatergic synapses" Poster 11e congrès annuel des étudiants, stagiaires et résidents du Centre de Recherche du CHUM Invited?: No

2009/1 Published Co-Author	Martel G, Hamet P, TREMBLAY J, "Identification d'un nouveau facteur nucléaire capable de contrôler l'expression transcriptionnelle de la guanylate cyclase" Poster 17e réunion scientifique annuelle de la Société Québécoise d'Hypertension Artérielle Invited?: No
2009/1 Published Co-Author	Noël A, Seda O, TREMBLAY J, Gaudet D, Kotchen TA, Cowley AW, Merlo E, Hamet P, "Implication de FAAH2 dans le niveau de la pression artérielle chez des familles du Saguenay-Lac-Saint-Jean" Poster 17e réunion scientifique annuelle de la Société Québécoise d'Hypertension Artérielle Invited?: No
2009/1 Published Last Author	Fillion-Forté V, Morin E, Peng J, Deng A, Seda O, Hamet P, TREMBLAY J, "Effect of high fat/sucrose diet on cardiometabolic features and ANP response in the DAHL hypertensive rat" Poster 17e réunion scientifique annuelle de la Société Québécoise d'Hypertension Artérielle Invited?: No
2009/1 Published Co-Author	618. Ivanga M. Seda O, Samuels ME, Gaudet D, TREMBLAY J, Hamet P, "Analyse Pan-génomique de CNVs chez des familles du Saguenay-Lac-Saint-Jean atteintes d'hypertension artérielle" Poster 17e réunion scientifique annuelle de la Société Québécoise d'Hypertension Artérielle Invited?: No
2008/12 Published Co-Author	Ivanga M, Seda O, Samuels ME, Gaudet D, TREMBLAY J, Hamet P, "Recherche pan-génomique de CNVs chez des familles québécoises hypertendues du Saguenay Lac St-Jean (SLSJ). Archive des Maladies du Cœur et des Vaisseaux-pratique; Hors Série 1 : p5" Abstract 28es journées de l'hypertension artérielle – 2nd International Meeting of the French Society of Hypertension, Paris, France Invited?: No
2008/10 Published Last Author	616. Fillion-Forté V, Morin E, Peng J, Deng A, Seda O, Hamet P, TREMBLAY J, "Effect of high fat/sucrose diet on cardiometabolic features and ANP response in the DAHL hypertensive rat" Poster 29e reunion annuelle de la Société Canadienne d'Hypertension Artérielle Invited?: No
2008/10 Published Last Author	Matsuda H, Cossette S, Michel C, Beaudoin G, Peng J, Lavoie JL, Hamet P, TREMBLAY J, "Role of hypetension-related, calcium-regulated gene (HCaRG) in obstructive renal injury" Poster 29e reunion annuelle de la Société Canadienne d'Hypertension Artérielle Invited?: No
2008/9 Published First Listed Author	TREMBLAY J, Seda O, Arenas I, Rocheleau G, De Champlain J, Hamet P, "From SNPS to clinically useful biomarkers for hypertension and cardiovascular complications" Abstract Mendel Symposium II: Genes and the Heart, Joint Meeting of the Japan and European Sections of the International Academy of Cardiovascular Sciences Invited?: Yes
2008/9 Published Co-Author	Hamet P, TREMBLAY J, "Contribution of genomics and epigenomics to the resolution of complex cardiovascular deseases" Abstract Mendel Symposium II: Genes and the Heart, Joint Meeting of the Japan and European Sections of the International Academy of Cardiovascular Sciences Invited?: No

2008/9 Published Co-Author	De Champlain J, Sas G, Larochelle P, Lebeau R, Leblanc AR, Roy D, Arenas I, Hamet P, TREMBLAY J, Nadeau R, "Identification of clinical autonomic and hormonal phenotypes of atrial fibrillation in hypertensive patients" Abstract Mendel Symposium II: Genes and the Heart, Joint Meeting of the Japan and European Sections of the International Academy of Cardiovascular Sciences Invited?: Yes
----------------------------------	---

Intellectual Property

Patents

In Progress	A method for determining a predisposition to atrial fibrillation (AF) in a subject - Serial number: 13/196,623, (Deposited July 5, 2011), United States, Virginia Filing Date: 2011-07-05
In Progress	Single Nucleotide polymorphisms and genes associated with T2D-related complications - Serial number: 61/425,748 (Deposited December 21, 2010), United States, Washington Filing Date: 2010-12-21
Completed	Genetic component of complications in Type 2 Diabetes - PCT/IB2009/006638, (Deposited June 15, 2009), United States, Virginia Filing Date: 2009-06-15
Completed	Genetic component of complications in type 2 diabetes - Serial number: 12/457,555 (June 15, 2009), United States, Virginia Filing Date: 2009-06-15
Completed	Methods and compositions for characterizing patients for clinical outcome trials - Serial number: 12/457,556 (June 15, 2009), United States, Virginia Filing Date: 2009-06-15
In Progress	HCaRG, a novel calcium-regulated gene - Serial number: 11/938,894 (November 13, 2007), United States, Washington Filing Date: 2007-11-13
Completed	Treatment of stress and preconditioning against stress - U.S. Patent granted, 2002, Part I: Number 6,136,308; Part II: Number 6,432,399, United States, Washington Filing Date: 2002-07-08
Completed	Nuclear imaging uses of radiolabelled atrial natriuretic factor - Serial Number 07/634.220 (July 4, 1994), United States, Virginia Filing Date: 1994-07-04