



PIN Number: 157856

CV Type: CIHR_Academic_2012_1

Personal Information

Identification

Title Family Name First Name Date of Birth Sex Correspondence language
 Canadian Residency Status Permanent Residency Start Date

Country of Citizenship

	Country of Citizenship
1	FRANCE

Language Skills

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

Address

The primary Address is denoted by (*)

*1	Address Type <input type="text" value="Courier"/> Montreal Diabetes Research Center CR-CHUM Angus Technopole Bureau 402-E 2901 Rachel est MONTREAL Quebec H1W 4A4
2	Address Type <input type="text" value="Primary Affiliation"/> Montreal Diabetes Research Center CR-CHUM Angus Technopole Bureau 402-E 2901 Rachel est MONTREAL Quebec H1W 4A4

Telephone

The primary Telephone is denoted by (*)

	Phone Type	Area Code	Telephone Number	Extension
1	Fax	514	4127648	
*2	Laboratory	514	8908000	23628
3	Mobile	514	2647782	

Email

The primary Email is denoted by (*)

	Email Type	Email Address
*1	Work	thierry.alquier@umontreal.ca

Website

	Website Type	URL
1	Community	http://www.montreal-diabetes-research-center.org/en/alquier/alquier.asp

User Profile

Disciplines Trained In

	Discipline Trained In
1	Molecular Biology
2	Physiology

Research Disciplines

	Research Discipline
1	Endocrinology
2	Neurosciences

Areas of Research

	Area of Research
1	Autonomic Nervous System
2	Energy Metabolism
3	Metabolic Diseases
4	Obesity
5	Pancreas

Fields of Application

	Field of Application
1	Biomedical Aspects of Human Health
2	Pathogenesis and Treatment of Diseases

Research Specialization Keywords

	Research Specialization Keywords
1	cell signalling
2	diabetes
3	energy homeostasis
4	fatty acid
5	glucose sensing mechanism
6	hypothalamus
7	insulin/leptin resistance
8	intracellular metabolism
9	obesity
10	pancreatic beta cell

Education

Degrees

1	Degree Type <input type="text" value="Post-doctorate"/> Degree Name <input type="text" value="Postdoctoral training"/> Specialization <input type="text" value="Fatty acid receptor GPR40 and glucose homeostasis"/> Organization <input type="text" value="Centre hospitalier de l'université de Montréal"/> Degree Status <input type="text" value="Completed"/> Degree Start Date <input type="text" value="2006/2"/> Degree Received Date <input type="text" value="2009/6"/> Supervisors <table border="1"> <thead> <tr> <th></th> <th>Supervisor Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr V. Poitout</td> </tr> </tbody> </table>		Supervisor Name	1	Dr V. Poitout
	Supervisor Name				
1	Dr V. Poitout				

2	Degree Type <input type="text" value="Post-doctorate"/> Degree Name <input type="text" value="Postdoctoral training"/> Specialization <input type="text" value="Hypothalamic AMPK and fuel sensing"/> Organization <input type="text" value="Beth Israel Deaconess Medical Center (US)"/> Degree Status <input type="text" value="Completed"/> Degree Start Date <input type="text" value="2003/2"/> Degree Received Date <input type="text" value="2006/2"/> Supervisors <table border="1"> <thead> <tr> <th></th> <th>Supervisor Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr B.B. Kahn</td> </tr> </tbody> </table>		Supervisor Name	1	Dr B.B. Kahn
	Supervisor Name				
1	Dr B.B. Kahn				
3	Degree Type <input type="text" value="Doctorate"/> Degree Name <input type="text" value="Physiology and cellular regulations"/> Specialization <input type="text" value="Physiological importance of the insulin sensitive glucose transporter GLUT4 in the brain"/> Organization <input type="text" value="Université de Toulouse III (Paul Sabatier)"/> Degree Status <input type="text" value="Completed"/> Degree Start Date <input type="text" value="1999/9"/> Degree Received Date <input type="text" value="2002/12"/> Supervisors <table border="1"> <thead> <tr> <th></th> <th>Supervisor Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr Luc Pénicaud</td> </tr> </tbody> </table>		Supervisor Name	1	Dr Luc Pénicaud
	Supervisor Name				
1	Dr Luc Pénicaud				
4	Degree Type <input type="text" value="Master's Thesis"/> Degree Name <input type="text" value="Diplôme d'Etudes Aprofondies (DEA)"/> Specialization <input type="text" value="Quantification of GLUT4 expression by competitive RT-PCR in the brain of obese Zucker rats"/> Organization <input type="text" value="Université de Toulouse III (Paul Sabatier)"/> Degree Status <input type="text" value="Completed"/> Degree Start Date <input type="text" value="1998/9"/> Degree Received Date <input type="text" value="1999/6"/> Supervisors <table border="1"> <thead> <tr> <th></th> <th>Supervisor Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr Luc Pénicaud</td> </tr> </tbody> </table>		Supervisor Name	1	Dr Luc Pénicaud
	Supervisor Name				
1	Dr Luc Pénicaud				
5	Degree Type <input type="text" value="Master's non-Thesis"/> Degree Name <input type="text" value="Physiology and cellular biology master - Masters"/> Specialization <input type="text" value="Molecular endocrinology"/> Organization <input type="text" value="Université de Toulouse III (Paul Sabatier)"/> Degree Status <input type="text" value="Completed"/> Degree Start Date <input type="text" value="1993/9"/> Degree Received Date <input type="text" value="1998/6"/>				
6	Degree Type <input type="text" value="Bachelor's"/> Degree Name <input type="text" value="Baccalauréat D"/> Specialization <input type="text" value="Biology"/> Other Organization <input type="text" value="Lycée mixte du Couserans (St-Girons, FRANCE)"/> Degree Status <input type="text" value="Completed"/> Degree Start Date <input type="text" value="1992/9"/> Degree Received Date <input type="text" value="1993/6"/>				

Credentials

	Title	Other Organization	Effective Date
1	Certification Use/protection of laboratory animals	Ecole Nationale Vétérinaire/Ministère de l'Agriculture	2000/5

Recognitions

	Recognition Type	Recognition Name	Other Organization	Effective Date	Amount	Currency
1	Distinction	Young investigator award	Fondation Bettencourt-Schueller	2003/1	28000	Canadian dollar

Employment

Academic Work Experience

	Position Title	Organization	Department	Start Date	End Date
1	Assistant Professor	Université de Montréal	Médecine	2009/7	
2	Postdoctoral fellow	Université de Montréal		2006/2	2009/6
3	Postdoctoral fellow	Harvard Medical School		2003/1	2006/2
4	Assistant teacher	Université de Toulouse III (Paul Sabatier)	Physiology department	1999/11	2002/12
5	PhD student	Centre national de la	Laboratoire de	1998/10	2002/12

	recherche scientifique	Neuroedocrinologie		
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Non-academic Work Experience

	Position Title	Other Organization	Start Date	End Date
1	Research assistant	MERIAL (pharmaceutical company)	1997/6	1997/9

Affiliations

The primary Affiliations is denoted by (*)

	Position Title	Organization	Department	Start Date
*1	Assistant Professor	Université de Montréal	Médecine	2009/7

Research Funding History

1	Funding Title <input type="text" value="Role of the hypothalamo-pancreatic axis in the pathogenesis of type 2 diabetes"/> Funding Status <input type="text" value="Awarded"/> Funding Role <input type="text" value="Principal Investigator"/> Funding Start Date <input type="text" value="2011/10"/> Funding End Date <input type="text" value="2015/9"/>						
	Funding Sources						
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Canadian Institutes of Health Research (CIHR)	Operating grant	Yes	392013	Canadian dollar	2011/10	2015/9
2	Funding Title <input type="text" value="(DECLINED) Role of the hypothalamo-pancreatic axis in the beta-cell compensatory responses induced by nutrient excess (DECLINED)"/>						
	Funding Status <input type="text" value="Declined"/> Funding Role <input type="text" value="Principal Investigator"/> Funding Start Date <input type="text" value="2011/7"/> Funding End Date <input type="text" value="2014/7"/>						
	Funding Sources						
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Canadian Diabetes Association	Operating grant (DECLINED)	Yes	272481	Canadian dollar	2011/7	2014/6
3	Funding Title <input type="text" value="Salary Award (Junior 1)"/> Funding Status <input type="text" value="Awarded"/> Funding Role <input type="text" value="Principal Investigator"/> Funding Start Date <input type="text" value="2010/7"/>						
	Funding End Date <input type="text" value="2014/7"/>						
	Funding Sources						
	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Fonds de Recherche en Santé du Québec (FRSQ)	Salary Award (chercheur-boursier junior 1)	Yes	267401	Canadian dollar	2010/7	2014/7
4	Funding Title <input type="text" value="Role of Acyl-CoA Binding Protein (ACBP) in insulin secretion and glucose homeostasis"/> Funding Status <input type="text" value="Awarded"/>						
	Funding Role <input type="text" value="Principal Investigator"/> Funding Start Date <input type="text" value="2013/5"/> Funding End Date <input type="text" value="2014/5"/>						
	Funding Sources						
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Société francophone du diabète (SFD)	Allocation de recherche	Yes	27000	Canadian dollar	2013/5	2014/3
5	Funding Title <input type="text" value="Hypothalamic control of energy balance by glial cells: role of endozepines"/> Funding Status <input type="text" value="Awarded"/>						
	Funding Role <input type="text" value="Principal Investigator"/> Funding Start Date <input type="text" value="2013/4"/> Funding End Date <input type="text" value="2014/3"/>						
	Other Investigators						
	Investigator Name	Role					
1	Dr Luc Pénicaud	Co-applicant					

2	Dr Xavier Fioramonti		Co-applicant				
Funding Sources							
	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Réseau de recherche québécois sur la santé cardiometabolique, le diabète et l'obésité (CMDO)	International collaboration funding program	Yes	30000	Canadian dollar	2013/4	2014/3
6	Funding Title <input type="text" value="Role of the hypothalamo-pancreatic axis in the pathogenesis of type 2 diabetes"/> Funding Status <input type="text" value="Awarded"/>						
	Funding Role <input type="text" value="Principal Investigator"/>		Funding Start Date <input type="text" value="2010/10"/>		Funding End Date <input type="text" value="2013/10"/>		
Other Investigators							
	Investigator Name	Role					
1	Thierry Alquier	Principal Investigator					
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Fonds de la Recherche en Santé du Québec (FRSQ)	Establishment grant for young investigators	Yes	45000	Canadian dollar	2010/10	2013/10
7	Funding Title <input type="text" value="Central lipid signalling and regulation of energy balance"/> Funding Status <input type="text" value="Awarded"/> Funding Role <input type="text" value="Principal Investigator"/>						
	Funding Start Date <input type="text" value="2012/6"/>		Funding End Date <input type="text" value="2013/9"/>				
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Canada Foundation for Innovation (CFI)	Leaders Opportunity Fund for research infrastructure	Yes	160000	Canadian dollar	2012/6	2013/9
8	Funding Title <input type="text" value="Travel award"/> Funding Status <input type="text" value="Awarded"/> Funding Role <input type="text" value="Principal Investigator"/> Funding Start Date <input type="text" value="2013/3"/>						
	Funding End Date <input type="text" value="2013/3"/>						
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Société francophone du diabète (SFD)	Travel award	Yes	1000	Canadian dollar	2013/3	2013/3
9	Funding Title <input type="text" value="Role of Acyl-CoA Binding Protein (ACBP) in Hypothalamic Fatty Acid Sensing"/> Funding Status <input type="text" value="Awarded"/>						
	Funding Role <input type="text" value="Principal Investigator"/>		Funding Start Date <input type="text" value="2012/2"/>		Funding End Date <input type="text" value="2013/2"/>		
Funding Sources							
	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Montreal Diabetes Research Center & Diabete Québec	Montreal Diabetes Research Center-Pilot & feasibility grant	Yes	10000	Canadian dollar	2012/2	2013/2
10	Funding Title <input type="text" value="Vagally mediated activation of muscarinic signalling in beta-cell participates to beta-cell compensation induced by nutrient excess"/>						
	Funding Status <input type="text" value="Completed"/>		Funding Role <input type="text" value="Principal Investigator"/>		Funding Start Date <input type="text" value="2011/3"/>		Funding End Date <input type="text" value="2012/3"/>
Funding Sources							

	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Montreal Diabetes Research Center & Diabete Québec	Montreal Diabetes Research Center-Pilot & feasibility grant	Yes	10000	Canadian dollar	2011/3	2012/3

11 Funding Title Funding Status

Funding Role Funding Start Date Funding End Date

Other Investigators

	Investigator Name	Role
1	Thierry Alquier	Principal Investigator

Funding Sources

	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Canadian Institutes of Health Research (CIHR)	Operating grant (Bridge fund)	Yes	99638	Canadian dollar	2011/3	2012/2

12 Funding Title Funding Status

Funding Role Funding Start Date Funding End Date

Funding Sources

	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Diabetes Québec	Operating grant Diabete Quebec	Yes	20000	Canadian dollar	2010/7	2011/7

13 Funding Title Funding Status Funding Role Funding Start Date

Funding End Date

Other Investigators

	Investigator Name	Role
1	Thierry Alquier	Principal Investigator

Funding Sources

	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Centre de recherche du centre hospitalier de l'université de Montréal (CRCHUM)	Start-up funds from Centre de Recherche du CHUM	No	100000	Canadian dollar	2009/7	2011/7

14 Funding Title Funding Status

Funding Role Funding Start Date Funding End Date

Funding Sources

	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Société Francophone du Diabète	Operating grant SFD-Novartis	Yes	31000	Canadian dollar	2009/7	2010/7

15 Funding Title

Funding Status Funding Role Funding Start Date Funding End Date

Other Investigators

	Investigator Name	Role					
1	Pr MAGNAN, Christophe; Christophe MAGNAN; Bernard THORENS; Herve LE STUNFF; Thierry ALQUIER	Principal Investigator					
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	European Foundation for the Study of Diabetes (EFSD) (Germany)	EFSD/GlaxoSmithKline Programme for the Study of Diabetes	Yes	140000	Canadian dollar	2007/11	2009/11
16	Funding Title <input type="text" value="Postdoctoral fellowship"/> Funding Status <input type="text" value="Completed"/> Funding Role <input type="text" value="Principal Applicant"/> Funding Start Date <input type="text" value="2006/7"/>						
	Funding End Date <input type="text" value="2009/7"/>						
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Canadian Diabetes Association	Post-doctoral fellowship CDA	Yes	114000	Canadian dollar	2006/7	2009/7
17	Funding Title <input type="text" value="Travel award, poster presentation 'GPR40 controls insulin secretion in vivo without affecting intracellular fuel metabolism in islets'"/>						
	Funding Status <input type="text" value="Awarded"/> Funding Role <input type="text" value="Principal Applicant"/> Funding Start Date <input type="text" value="2009/1"/> Funding End Date <input type="text" value="2009/1"/>						
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	National Institute of Diabetes & Digestive & Kidney diseases (NIDDK)	Scholarship NIH-NIDDK	Yes	1200	Canadian dollar	2009/1	2009/1
18	Funding Title <input type="text" value="Travel award, oral and poster presentations 'GPR40 is necessary but not sufficient for fatty acid stimulation of insulin secretion in vivo'"/>						
	Funding Status <input type="text" value="Awarded"/> Funding Role <input type="text" value="Principal Applicant"/> Funding Start Date <input type="text" value="2007/3"/> Funding End Date <input type="text" value="2007/3"/>						
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	American Diabetes Association	Scholarship ADA	Yes	500	Canadian dollar	2007/3	2007/3
19	Funding Title <input type="text" value="Travel award, poster presentation 'Role of GPR40 in fatty-acid modulation of insulin secretion'"/>						
	Funding Status <input type="text" value="Awarded"/>						
	Funding Role <input type="text" value="Principal Applicant"/> Funding Start Date <input type="text" value="2006/4"/> Funding End Date <input type="text" value="2006/4"/>						
Funding Sources							
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	National Institute of Diabetes & Digestive & Kidney diseases (NIDDK)	Scholarship NIDDK	Yes	500	Canadian dollar	2006/4	2006/4
20	Funding Title <input type="text" value="Postdoctoral fellowship"/> Funding Status <input type="text" value="Completed"/> Funding Role <input type="text" value="Principal Applicant"/> Funding Start Date <input type="text" value="2003/7"/>						
	Funding End Date <input type="text" value="2004/7"/>						
Funding Sources							
	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	American Diabetes	Transatlantic post-	Yes	60000	Canadian dollar	2003/7	2004/7

	Association	doctoral fellowship EASD-ADA					
21	Funding Title <input type="text" value="PhD fellowship"/> Funding Status <input type="text" value="Completed"/> Funding Role <input type="text" value="Principal Applicant"/> Funding Start Date <input type="text" value="1999/10"/> Funding End Date <input type="text" value="2002/10"/> Funding Sources						
	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Ministère français de la Recherche	PhD fellowship	Yes	60000	Canadian dollar	1999/10	2002/10
22	Funding Title <input type="text" value="MSc fellowship"/> Funding Status <input type="text" value="Completed"/> Funding Role <input type="text" value="Principal Applicant"/> Funding Start Date <input type="text" value="1998/9"/> Funding End Date <input type="text" value="1999/9"/> Funding Sources						
	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Date
1	Ecole Doctorale Biologie/Santé de Toulouse	Master/DEA fellowship	Yes	4500	Canadian dollar	1998/9	1999/9

Activities

Supervisory Activities

Student/Postdoctoral Supervision

	Supervision Role	Student Name	Student Institution	Study / Postdoctoral Level	Student Degree Status	Student Degree Start Date	Student Degree Expected Date	Project Description	Present Position	Student Degree Received Date
1	Principal Supervisor	Eyoun Jong Laura	Montreal University	Bachelor's	In Progress	2012/5	2012/8	Role of ACBP in fatty acid metabolism in the brain	BSc student	
2	Principal Supervisor	Lionel Budry	CRCHUM	Post-doctorate	In Progress	2011/9		Role of hypothalamic Acyl-CoA Binding Protein (ACBP) in the control of energy balance	Postdoctoral fellow	
3	Principal Supervisor	Khalil Bouyakdan	Montreal University	Doctorate	In Progress	2011/1			PhD student	
4	Co-Supervisor	Isabelle Poirier	University of Montreal	Bachelor's	In Progress	2010/9				
5	Principal Supervisor	Taib Bouchra	Montreal University	Doctorate	In Progress	2010/5			PhD student	
6	Co-Supervisor	Hryhorczuk Cécile	Montreal University	Doctorate	In Progress	2010/1		Modulation of the dopaminergic reward circuitry by fatty acids (Co-supervision with Dr Stephanie Fulton)	PhD student	
7	Principal Supervisor	Desplat Angélique	Montreal University	Master's Equivalent	Completed	2010/1		Modulation of hypothalamic neuropeptide expression by fatty acids	PhD student in France	2011/10
8	Principal Supervisor	Bouhabel Sarah		Bachelor's	Completed	2008/6		Role of GPR40 in fatty acid oxidation in pancreatic islets		2008/8
9	Co-Supervisor	Christophe		Doctorate	Completed	2007/1		GPR40 and	MSc in Public	2008/2

		Audrey						intracellular metabolism in islets	Health	
10	Principal Supervisor	Luong Anh-Tuyet		Bachelor's	Completed	2007/6		Role of GPR40 in fatty acid oxidation in pancreatic islets		2007/8
11	Principal Supervisor	Luong Anh-Tuyet		Bachelor's	Completed	2006/6		Role of GPR40 in fuel metabolism in pancreatic islets		2006/9
12	Co-Supervisor	Junji Kawashima	Kumamoto University	Post-doctorate	Completed	2005/1		Role of hypothalamic AMPK in the counterregulatory response to hypoglycemia	Senior resident	2006/1

International Collaboration Activities

	Role	Location	Start Date	Activity Description
1	Collaborator	South Denmark	2013-02-01	Our collaborator Dr Nils Faergeman will help us with intracellular Acyl-CoA measurements and profiling in hypothalamic nuclei and cells including ACBP-invalidated samples.
2	Collaborator	Côte-d'Or	2012-10-01	Collaboration with Drs Fioramonti and Pénicaud (Université de Bourgogne) to investigate the modulation of hypothalamic neuronal network activity by ACBP and ACBP-derived peptide using electrophysiology approaches in transgenic reporter mice.
3	Collaborator	South Denmark	2012-08-01	Our collaborator Dr Susanne Mandrup (University of Southern Denmark) provided us with important genetic mice models: ACBP-null and ACBP-floxed mice to assess the role of the peptide in the central control of energy balance and beta cell function. Ongoing work between our teams aim at investigating the contribution of ACBP in energy homeostasis.

Contributions

Presentations

	Presentation Title	Conference / Event Name	Location	City	Main Audience	Presentation Date
1	Hypothalamic nutrient sensing and control of energy balance	Research seminar Department of Cell Biology and Pathology, Université de Montréal.	Quebec	Montreal	Researcher	2012-02-06
2	Hypothalamic nutrient sensing and neural control of pancreatic -cell function	Symposium of the cardiometabolic research axis of Centre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM)	Quebec	Montreal	Researcher	2011-10-21
3	Hypothalamic nutrient sensing and control of energy balance.	Research seminar Department of Biochemistry, Université de Montréal.	Quebec	Montreal	Researcher	2011-10-10
4	Rodent metabolic phenotyping	Annual Retreat of the Montreal Diabetes Research Center (MDRC)	Quebec	Montreal	Researcher	2011-01-21
5	Role of the hypothalamo-pancreatic axis in type 2 diabetes	Research Seminar Annual retreat of the CRCHUM	Quebec	Bromont	Researcher	2010-06-17
6	Role of AMP-activated protein kinase in the hypothalamic control of energy balance	Endocrinology research seminar CRCHUM	Quebec	Montreal	Researcher	2007-06-22

7	AMP-activated protein Kinase: A key player in the hypothalamic control of energy homeostasis	Research seminar Research Center of Hôpital Laval	Quebec	Sainte Foy	Researcher	2007-03-22
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Publications

PubMed Articles

	PubMed ID	Title	Journal	Volume	Issue	Publication Date	Authors	Open Access?
1	23520164	Fatty Acid receptor gpr40 mediates neuromicrovascular degeneration induced by transarachidonic acids in rodents.	Arteriosclerosis, thrombosis, and vascular biology	33	5	2013 May	Honoré JC , Kooli A , Hamel D , Alquier T , Rivera JC , Quiniou C , Hou X , Kermorvant-Duchemin E , Hardy P , Poitout V , Chemtob S	No
2	23335512	The free fatty acid receptor GPR40 protects from bone loss through inhibition of osteoclast differentiation.	The Journal of Biological Chemistry			2013 Jan 18	Wauquier F , Philippe C , Leotoing L , Mercier S , Davicco MJ , Lebecque P , Guicheux J , Pilet P , Miot-Noirault E , Poitout V , Alquier T , Coxam V , Wittrant Y	No
3	22308370	Glucose activates free fatty acid receptor 1 gene transcription via phosphatidylinositol-3-kinase-dependent O-GlcNAcylation of pancreas-duodenum homeobox-1.	Proceedings of the National Academy of Sciences of the United States of America	109	7	2012 Feb 14	Kebede M , Ferdaoussi M , Mancini A , Alquier T , Kulkarni RN , Walker MD , Poitout V	No
4	22590531	Ca2+/calmodulin-dependent protein kinase kinase is not involved in hypothalamic AMP-activated protein kinase activation by neuroglucopenia.	PloS One	7	5	2012	Kawashima J* , Alquier T* , Tsuji Y , Peroni OD , Kahn BB * Equal contribution	Yes
5	20519132	Perturbations in the lipid profile of individuals with newly diagnosed type 1 diabetes mellitus: lipidomics analysis of a Diabetes Antibody Standardization Program sample subset.	Clinical Biochemistry	43	12	2010 Aug	Sorensen CM , Ding J , Zhang Q , Alquier T , Zhao R , Mueller PW , Smith RD , Metz TO	No
6	19817784	Lipid receptors and islet function: therapeutic implications?	Diabetes, Obesity & Metabolism	11 Suppl 4		2009 Nov	Kebede MA , Alquier T , Latour MG , Poitout V	No
7	19720802	Deletion of GPR40 impairs glucose-induced insulin secretion in vivo in mice without affecting intracellular fuel metabolism in islets.	Diabetes	58	11	2009 Nov	Alquier T , Peyot ML , Latour MG , Kebede M , Sorensen CM , Gesta S , Ronald Kahn C , Smith RD , Jetton TL , Metz TO , Prentki M , Poitout V	No
8	19401432	GPR40: good cop, bad cop?	Diabetes	58	5	2009 May	Alquier T , Poitout V	No
9	18559658	The fatty acid receptor GPR40 plays a role in insulin secretion in vivo after high-fat feeding.	Diabetes	57	9	2008 Sep	Kebede M , Alquier T , Latour MG , Semache M , Tremblay C , Poitout V	No

10	17185376	Role of hypothalamic adenosine 5'-monophosphate-activated protein kinase in the impaired counterregulatory response induced by repetitive neuroglucopenia.	Endocrinology	148	3	2007 Mar	Alquier T , Kawashima J , Tsuji Y , Kahn BB	No
11	17395749	GPR40 is necessary but not sufficient for fatty acid stimulation of insulin secretion in vivo.	Diabetes	56	4	2007 Apr	Latour MG , Alquier T , Oseid E , Tremblay C , Jetton TL , Luo J , Lin DC , Poitout V	No
12	16687413	Diet-induced obesity alters AMP kinase activity in hypothalamus and skeletal muscle.	The Journal of Biological Chemistry	281	28	2006 Jul 14	Martin TL* , Alquier T* , Asakura K , Furukawa N , Preitner F , Kahn BB * Equal contribution	No
13	16804079	Mitochondrial reactive oxygen species are required for hypothalamic glucose sensing.	Diabetes	55	7	2006 Jul	Leloup C , Magnan C , Benani A , Bonnet E , Alquier T , Offer G , Carriere A , Périquet A , Fernandez Y , Ktorza A , Casteilla L , Pénicaud L	No
14	16054041	AMP-activated protein kinase: ancient energy gauge provides clues to modern understanding of metabolism.	Cell Metabolism	1	1	2005 Jan	Kahn BB , Alquier T , Carling D , Hardie DG	No
15	15321948	Peripheral signals set the tone for central regulation of metabolism.	Endocrinology	145	9	2004 Sep	Alquier T , Kahn BB	No
16	15117340	Acute intracarotid glucose injection towards the brain induces specific c-fos activation in hypothalamic nuclei: involvement of astrocytes in cerebral glucose-sensing in rats.	Journal of Neuroendocrinology	16	5	2004 May	Guillod-Maximin E , Lorsignol A , Alquier T , Pénicaud L	No
17	15181191	Intrauterine hyperglycemia increases insulin binding sites but not glucose transporter expression in discrete brain areas in term rat fetuses.	Pediatric Research	56	2	2004 Aug	Leloup C , Magnan C , Alquier T , Mistry S , Offer G , Arnaud E , Kassis N , Ktorza A , Pénicaud L	No
18	15058305	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus.	Nature	428	6982	2004 Apr 1	Minokoshi Y , Alquier T , Furukawa N , Kim YB , Lee A , Xue B , Mu J , Fougelle F , Ferré P , Birnbaum MJ , Stuck BJ , Kahn BB	No
19	12535172	Cerebral insulin increases brain response to glucose.	Journal of Neuroendocrinology	15	1	2003 Jan	Alquier T , Leloup C , Atef N , Fioramonti X , Lorsignol A , Pénicaud L	No
20	12172478	Brain glucose sensing mechanism and glucose homeostasis.	Current opinion in clinical nutrition and metabolic care	5	5	2002 Sep	Pénicaud L , Leloup C , Lorsignol A , Alquier T , Guillod E	No

21	11457563	Altered Glut4 mRNA levels in specific brain areas of hyperglycemic-hyperinsulinemic rats.	Neuroscience Letters	308	2	2001 Aug 3	Alquier T , Leloup C , Arnaud E , Magnan C , Pénicaud L	No
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Journal Articles

	Article Title	Journal	Volume	Page Range	Publishing Status	Date	Refereed?	Contribution Role	Number of Contributors	Issue
1	Free Fatty Acid Receptor 1: A New Drug Target for Type 2 Diabetes	Canadian Journal of Diabetes	36	275:280	Published	2012/12	Yes	Co-Author	6	
2	Détecteurs de glucose et régulation de la prise alimentaire	Cahier de Nutrition et Diététique	42	134-138	Published	2007/10	Yes	Co-Author	7	3
3	Translocable glucose transporters in the brain: Where are we in 2006?	Diabetes	55	S131-S138	Published	2006/6	Yes	First Listed Author	4	Suppl 2

Book Chapters

	Chapter Title	Book Title	Volume	Publishing Status	Date	Publisher	Refereed?	Contribution Role
1	Insulin resistance and the autonomic nervous system	Insulin resistance and insulin resistance syndrome Frontiers in Animal Diabetes Research	5	Published	2002/8	CRC Press	Yes	Co-Author

Dissertations

	Dissertation Title	Organization	Supervisor	Completion Date
1	The insulin sensitive glucose transporter GLUT4 in the brain: cellular mechanisms and physiological roles	Université de Toulouse III (Paul Sabatier)	Dr Luc Pénicaud	2002-12-16

Conference Publications

	Conference Publication Type	Publication Title	Conference Name	Publishing Status	Date	Contribution Role
1	Poster	Dual role of Acyl-CoA Binding Protein in the hypothalamus: Regulator of astrocyte fatty acid metabolism and gliotransmitter targeting POMC neurons	Keystone symposia "Neuronal Control of Appetite, Metabolism and Weight (C6)"	Accepted	2013/3	Last Author
2	Poster	Glucose and fatty acid intracellular metabolism are coupled via AMPK in hypothalamic neurons and astrocytes	Keystone symposia "Neuronal Control of Appetite, Metabolism and Weight (C6)"	Accepted	2013/3	Last Author
3	Poster	Differential modulation of the mesolimbic reward pathway by specific dietary fats.	Keystone Symposia "Neuronal Control of Appetite, Metabolism and Weight (C6)"	Accepted	2013/3	Co-Author
4	Abstract	Nutritional and hormonal signals modulate fatty acid oxidation in the hypothalamus	41st Annual meeting of Society for Neuroscience	Published	2011/11	Last Author
5	Abstract	Fatty acid sensing in the ventral tegmental area: inhibition of food intake by oleate	41st Annual meeting of Society for Neuroscience	Published	2011/11	Co-Author
6	Abstract	Trans-Arachidonic Acids Generated After Nitrate Stress Induce Cerebral Microvascular	15th Annual Meeting of the Society for Free Radical Biology & Medicine	Published	2008/11	Co-Author

		Microvascular Degeneration Through Activation of the GPR40 Receptor	Medicine			
7	Abstract	Transcriptomic and Metabolomic Profiling of GPR40 Knock-Out Mouse Islets	Canadian Diabetes Association annual meeting	Published	2008/10	First Listed Author
8	Abstract	Estrogen prevents beta-cell failure and diabetes in ZDF male rats: a role for glycerolipid/fatty acid cycling.	Canadian Diabetes Association annual meeting	Published	2008/10	Co-Author
9	Abstract	GPR40 Knock out mice are more susceptible to high-fat diet-induced diabetes	American Diabetes Association annual meeting	Published	2008/6	Co-Author
10	Abstract	Activation of AMPK by neuroglucopenia in hypothalamus is not mediated by CaMKK	American Diabetes Association annual meeting	Published	2007/6	Co-Author
11	Abstract	Diet induced Obesity Causes resistance to leptin action on AMPK in muscle and hypothalamus	NAASO Annual Scientific Meeting	Published	2004/10	First Listed Author
12	Abstract	Diet-induced Obesity Causes Resistance to Leptin Activation of AMP-Kinase in Skeletal Muscle.	American Diabetes Association annual meeting	Published	2004/6	First Listed Author
13	Abstract	Hypothalamic AMPK regulates food intake, body weight and expression of orexigenic neuropeptides.	American Diabetes Association annual meeting	Published	2003/6	Co-Author