### Canadian Common CV

Protected when completed



PIN Number: 157856

CV Type: CIHR\_Academic\_2012\_1

## **Personal Information**

#### Identification

Family Name ALQUIER First Name THIERRY Date of Birth 3/10 Title Dr. Sex Male Correspondence language English

Permanent Residency Start Date 2009-04-18 Canadian Residency Status Permanent Resident

**Country of Citizenship** 

Country of Citizenship

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 (\*)

Address Type Courier

> Montreal Diabetes Research Center **CR-CHUM Angus Technopole**

Bureau 402-E

2901 Rachel est

MONTREAL

Quebec

H1W 4A4

2

Address Type 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		
•	l	Community	http://www.montreal-diabetes-research-center.org/en/alquier/alquier.asp		

## **User Profile**

### Disciplines Trained In

		Discipline Trained In
ŀ		Molecular Biology
2	<u>}</u>	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

Degree Type Post-doctorate Degree Name Postdoctoral training Specialization Fatty acid receptor GPR40 and glucose homeostasis

Organization Centre hospitalier de l'université de Montréal Degree Status Completed Degree Start Date 2006/2

Degree Received Date 2009/6

Supervisors

Supervisor Name

1 Dr V. Poitout

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

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orimary	ry Affiliations is denoted	d by (*)						
	tion Title	Organiz			rtment		Start Date	
Assist	stant Professor	Universit	é de Montréal	Méde	ecine	2	2009/7	
	rch Funding Hi					2:	1	
Fur	nding Title Role of the Inding Role Principal Inv		atic axis in the pathons  g Start Date 2011/1		2 diabetes Fundin	g Status <u>Awar</u>	rded	
		Program Name	Funding Competitive?	Total Fundir	g Currency of 1	otal Fundi	ng Start Date	Funding End Dat
1	Canadian Institutes of Health Research	Operating grant	Yes	392013	Canadian dolla	ar 2011/1	10	2015/9
Fur	nding Title (DECLINED		alamo-pancreatic ax	is in the beta-ce		nses induced		cess (DECLINED)
Fur	nding Title (DECLINED nding Status Declined anding Sources		,		Date 2011/7 Fund	ing End Date	2014/7	
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Fur 1 Fur Fur	nding Title (DECLINED anding Status Declined anding Sources  Funding Organization  Canadian Diabetes Association  Canadian Diabetes Association	Funding Role Pring Program Name  Operating grant (DECLINED)	Funding Competitive?	Funding Start  Total Fundir  272481	Date 2011/7 Fund  G Currency of 1 Funding	rotal Funding ar 2011/7	2014/7 ng Start Date	Funding End Date 2014/6
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Role

Co-applicant

Other Investigators

Investigator Name

Dr Luc Pénicaud

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Page 4 of 13	

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Fur	nding Sources						
	Other Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Da
1	Réseau de recherche québécois sur la santé cardiométabolique, le diabète et l'obésité (CMDO)	International collaboration funding program	Yes	30000	Canadian dollar	2013/4	2014/3
Fun	nding Role Principal In	hypothalamo-pancrea	atic axis in the path			usAwarded	
Oth	ner Investigators Investigator Name	•		Role			
1	Thierry Alquier	е			al Investigator		
Eur	nding Sources						
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Da
1	Fonds de la Recherche en Santé du Québec (FRSQ)	Establishement grant for young investigators	Yes	45000	Canadian dollar	2010/10	2013/10
Fun	nding Title Central lipid ading Start Date 2012 anding Sources  Funding Organization  Canada Foundation for Innovation (CFI)	Program Name  Leaders Opportunity Fund for research	Funding Competitive?	Total Funding  160000	Currency of Total Funding  Canadian dollar	Funding Start Date	
Fun  1  Fun  Fun	nding Start Date 2012 Inding Sources Funding Organization Canada Foundation for Innovation (CFI) Inding Title Travel award adding End Date 2013/4	Program Name  Leaders Opportunity Fund for research infrastructure  rd Funding Status	Funding Competitive? Yes	Total Funding	Currency of Total Funding Canadian dollar	Funding Start Date	Funding End Da
Fun  1  Fun  Fun	nding Start Date 2012 Inding Sources Funding Organization Canada Foundation for Innovation (CFI) Inding Title Travel awarding End Date 2013/Inding Sources Funding	Program Name  Leaders Opportunity Fund for research infrastructure  rd Funding Status	Funding Competitive?  Yes  Awarded Fund	Total Funding	Currency of Total Funding Canadian dollar estigator Funding St	Funding Start Date	Funding End Da 2013/9
Fun  1  Fun  Fun	nding Start Date 2012 Inding Sources Funding Organization Canada Foundation for Innovation (CFI) Inding Title Travel award anding End Date 2013/Inding Sources	Program Name  Leaders Opportunity Fund for research infrastructure  rd Funding Status  Program Name	Funding Competitive?  Yes  Awarded Fund	Total Funding 160000 ing Role Principal Inve	Currency of Total Funding Canadian dollar estigator Funding St	Funding Start Date 2012/6  art Date 2013/3	Funding End Da 2013/9
Fun Fun Fun Fun Fun Fun Fun Fun	riding Start Date 2012/ Inding Sources  Funding Organization  Canada Foundation for Innovation (CFI)  Inding Title Travel award and grading End Date 2013/ Inding Sources  Funding Organization  Société francophone du diabète (SFD)  Inding Title Role of Acyunding Role Principal Information Sources	Program Name  Leaders Opportunity Fund for research infrastructure  rd Funding Status  Program Name  Travel award  VI-CoA Binding Protein	Funding Competitive?  Yes  Awarded Fund  Funding Competitive?  Yes  (ACBP) in Hypoth  g Start Date 2012/2	Total Funding  160000  ing Role Principal Invention  Total Funding  1000  alamic Fatty Acid Sen  Funding End Dat	Currency of Total Funding Canadian dollar  estigator Funding St  Currency of Total Funding Canadian dollar  Sing Funding Status	Funding Start Date 2012/6  Eart Date 2013/3  Funding Start Date 2013/3  SAwarded	Funding End Da 2013/9  Funding End Da 2013/3
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	Other Funding	Program Name	Funding	Total Funding	Currency of Total	Funding Start Date	Funding End Da
1	Organization  Montreal Diabetes Research Center &	Montreal Diabetes Research Center-	Yes	10000	Canadian dollar	2011/3	2012/3
	Diabete Québec	Pilot & feasibility grant					
Fu	unding Title Role of the	hypothalamo-pancre	atic axis in the patho	ogenesis of type 2 dia	betes Funding Stat	us Completed	
	unding Role Principal Ir	nvestigator Fundin	g Start Date 2011/3	Funding End Dat	te 2012/2		
	Investigators	e		Role			
1	Thierry Alquier			Princip	al Investigator		
F	unding Sources						
	Funding Organization	Program Name	Funding Competitive?	Total Funding	Currency of Total Funding	Funding Start Date	Funding End Da
1	Canadian Institutes of Health Research (CIHR)	Operating grant (Bridge fund)	Yes	99638	Canadian dollar	2011/3	2012/2
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					ty during nutrient exces	s Funding Status	Completed
	unding Role Principal Ir	ivestigator Fundin	g Start Date 2010/7	Funding End Dat	te[2011/7]		
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1 1 1	Organization Diabetes Québec  unding Title Start-up fur unding End Date 2011/ other Investigators  Investigator Nam Thierry Alquier  unding Sources  Funding Organization  Centre de recherche du centre hospitalier de l'université de Montréal (CRCHUM)	Program Name  Start-up funds from Centre de Recherche du CHUM	Yes  SCompleted Funding Competitive?	Role Principal I Role Principal I Princip  Total Funding  100000	Canadian dollar  Investigator  Funding  Currency of Total Funding  Canadian dollar	Funding Start Date 2009/7	Funding End Da
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	Investigator	Name				Role			
	1 Pr MAGNAN	, Christ	tophe;Christophe MA Thierry ALQUIER	GNAN; Bernard THO	ORENS;	Principal	Investigator		
	lieive LL 31	OINIT,	THIEITY ALQUILK						
1	Funding Sources								
	Funding Organization	I	Program Name	Funding Competitive?	Total Fund	ding	Currency of Total Funding	Funding Start Date	Funding End Date
	European Foundation for Study of Diabe (EFSD) (Germ	the i	EFSD/GlaxoSmithKI ine Programme for the Study of Diabetes	Yes	140000		Canadian dollar	2007/11	2009/11
	Funding Title Posto			ng Status Completed	d Funding	g Role Pri	ncipal Applicant F	unding Start Date 200	6/7
	Funding End Date Funding Sources	2009/7	_						
	Funding Organization		Program Name	Funding Competitive?	Total Fund	ding	Currency of Total Funding	Funding Start Date	Funding End Date
,	1 Canadian Dial Association		Post-doctoral fellowship CDA	Yes	114000		Canadian dollar	2006/7	2009/7
	Funding Title Trave	Lowerd	I, poster presentation	`					
'	"GPR	40 cont	trols insulin secretion	n in vivo without affec	ting intracell	ular fuel n	netabolism in islets"		
F	Funding Status Aw	arded	Funding Role Prin	cipal Applicant F	unding Start	Date 200	9/1 Funding End	Date 2009/1	
ı	Funding Sources								
	Funding Organization		Program Name	Funding Competitive?	Total Fund	ding	Currency of Total Funding	Funding Start Date	Funding End Dat
1 -				V	1200		0	2009/1	2009/1
	National Institutional Inst	dney	Scholarship NIH- NIDDK	Yes	1200		Canadian dollar	2009/1	2003/1
	Diabetes &	dney		Yes	1200		Canadian dollar	2009/1	2003/1
	Diabetes & Digestive & Ki diseases (NID	dney DK)	NIDDK	esentations				2009/1	2003/1
F	Diabetes & Digestive & Ki diseases (NID	dney DK)	d, oral and poster pre	esentations icient for fatty acid st	timulation of		cretion in vivo"		2003/1
F	Diabetes & Digestive & Ki diseases (NID  Funding Title Trave "GPR  Funding Status Aw	dney DK)	NIDDK	esentations icient for fatty acid st			cretion in vivo"		2003/1
F	Diabetes & Digestive & Ki diseases (NID  Funding Title Trave "GPR  Funding Status Aw  Funding Sources	dney DK)	NIDDK  d, oral and poster preecessary but not suff  Funding Role Prin	esentations icient for fatty acid st icipal Applicant F	timulation of unding Start	Date 200	cretion in vivo"  7/3 Funding End	Date 2007/3	
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F	Diabetes & Digestive & Ki diseases (NID)  Funding Title Trave "GPR  Funding Status Aw  Funding Sources  Funding Organization  1 American Diat Association  Funding Title Trave "Role"	dney DK)	A, oral and poster preecessary but not suff Funding Role Prin Program Name Scholarship ADA  d, poster presentation R40 in fatty-acid mod	esentations icient for fatty acid st icipal Applicant Funding Competitive? Yes	Total Function	Date 200	cretion in vivo"  7/3 Funding End  Currency of Total Funding  Canadian dollar	Date 2007/3 Funding Start Date 2007/3	Funding End Dat 2007/3
F	Diabetes & Digestive & Kindiseases (NID)  Funding Title Trave "GPR  Funding Status Aw  Funding Sources  Funding Organization  1 American Diable Association  Funding Title Trave	dney DK)	A, oral and poster preecessary but not suff Funding Role Prin Program Name Scholarship ADA  d, poster presentation R40 in fatty-acid mod	esentations icient for fatty acid st icipal Applicant Funding Competitive? Yes	Total Func	Date 200	cretion in vivo"  7/3 Funding End  Currency of Total Funding  Canadian dollar	Date 2007/3 Funding Start Date 2007/3	Funding End Dat 2007/3
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		iding Title PhD fellow		us Completed Fun	ding Role Principal	Applicant Funding S	Start Date 1999/10	
		nding Sources	710					
		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
ı	Fun	ding Title MSc fellow ding End Date 1999 ading Sources		us Completed Fun	ding Role Principal	Applicant Funding	Start Date 1998/9	
		Other Funding	Program Name	Funding	Total Funding	Currency of Total	Funding Start Date	Funding End Date
		Organization		Competitive?		Funding		J

# 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		Student Degree Received Date
I	Principal Supervisor	Eyoum 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		Khalil Bouyakdan	Montreal University	Doctorate	In Progress	2011/1			PhD student	
1	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 (Cosupervision 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
3	Principal Supervisor	Bouhabel Sarah		Bachelor's	Completed	2008/6		Role of GPR40 in fatty acid oxidation in pancreatic islets		2008/8
)	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			Kumamoto University	Post-doctorate	Completed	2005/1	Role of hypothalamic AMPK in the counterregulat ory 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		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	Kinase: A key player in	Research seminar Research Center of Hôpital Laval	Quebec	Sainte Foy	Researcher	2007-03-22
	or energy nomeostasis					

## Publications

#### **PubMed Articles**

	PubMed ID	Title	Journal	Volume	Issue	Publication Date	Authors	Open Access?
1	23520164		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 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	free fatty acid receptor 1 gene	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
1	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
3	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
3	19401432	GPR40: good cop, bad cop?	Diabetes	58	5	2009 May	Alquier T , Poitout V	No
)	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		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		Diet-induced obesity alters AMP kinase activity in hypothalamus and skeletal muscle.		281	28	2006 Jul 14	Martin TL* , Alquier T* , Asakura K , Furukawa N , Preitner F , Kahn BB * Equal contribution	No
13		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	
14		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		Acute intracarotid glucose injection towards the brain induces specific c-fos activation in hypothalamic nuclei: involvement of astrocytes in cerebral glucosesensing in rats.	Neuroendocrinolog y	16	5	2004 May	Guillod-Maximin E , Lorsignol A , Alquier T , Pénicaud L	No
17		Intrauterine hyperglycemia increases insulin binding sites but not glucose transporter expression in discrete brain areas in term rat fetuses.	Pediatric Research	56	2		Leloup C , Magnan C , Alquier T , Mistry S , Offer G , Arnaud E , Kassis N , Ktorza A , Pénicaud L	No
18		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 , Foufelle F , Ferré P , Birnbaum MJ , Stuck BJ , Kahn BB	No
19	12535172	Cerebral insulin increases brain response to glucose.	Neuroendocrinolog y	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		Altered Glut4 mRNA levels in specific brain areas of hyperglycemic- hyperinsulinemic rats.	Neuroscience Letters	308	2	, and the second	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		Canadian Journal of Diabetes	36	275:280	Published	2012/12	Yes	Co-Author	6	
2	glucose et	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
and the autonomic nervous system	Insulin resistance and insulin resistance syndrome Frontiers in Animal Diabetes Research		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		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 Nitrative 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 betacell 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 suceptible 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