

c v n CURRÍCULUM VITAE NORMALIZADO



Benoit Gauthier

Generated from: Editor CVN de FECYT

Date of document: 21/02/2020

v 1.4.0

e16c25ad3c8f2a46b294d8a016e4683d

This electronic file (PDF) has embedded CVN technology (CVN-XML). The CVN technology of this file allows you to export and import curricular data from and to any compatible data base. List of adapted databases available at: <http://cvn.fecyt.es/>



Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I am a molecular/cell physiologist interested in understanding the complex interaction between immune and pancreatic islet cells during the development of type 1 diabetes Mellitus with the long term goal to grasp and guide cellular mechanisms towards an immune tolerated and islet regenerative environment. My post-doctoral training and first academic position were acquired at the University of Geneva under the mentorship of Professor Claes Wollheim, a worldwide scientific pillar in islet physiology. Since relocating to CABIMER in 2009, I developed a strong translational research program in diabetes and autoimmune disease in collaboration with regional, national and international hospitals and Institutes. My research is published in high impact journals (65 publications, with h-index of 27) with a broad readership that include both clinician and basic scientists. My recent findings on immune tolerance coupled to cell trans-differentiation for regeneration opens a new and unexplored venue in T1DM therapeutics and has received numerous prizes including the 2019 Canal Sur Conecta award for improving the health and welfare of society. This work has also led to the creation of a Biotechnology spinoff, ARRIDAD Therapeutics S.L. I also mentor, Post-doctoral fellows as well as PhD, Masters and Undergraduate students. Over the past 10 years some of my students have secured excellent positions in biotechnology companies such as Celgene (USA/Spain), Sanofi (Germany) and Neurix (Switzerland).



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

SCOPUS (2005-20):

Publications: 69
Citations: 2163
h-index: 28

**Benoit Gauthier**

Surname(s): **Gauthier**
 Name: **Benoit**
 NIE: **Y0801401A**
 ORCID: **0000-0001-8146-7486**
 ResearcherID: **C-3138-2017**
 Date of birth: **04/07/1965**
 Gender: **Male**
 Nationality: **Canada**
 Country of birth: **Canada**
 Contact province: **Seville**
 City of birth: **Hull**
 Contact address: **Calle Mar 3D**
 Postcode: **41020**
 Contact country: **Spain**
 Contact aut. region/reg.: **Andalusia**
 Contact city: **Sevilla**
 Land line phone: **(+34) 691 807506**
 Fax: **(+34) 954 461664**
 Email: **benoit.gauthier@cabimer.es**
 Mobile phone: **(+34) 691 807506**
 Personal web page: **<http://www.cabimer.es/web/en/dept/sc/pancreatic-islet-development-and-regeneration>**

Current professional situation

Employing entity: FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD
Department: Regeneracion y Terapia Celular, Centro Andaluz de Biologia Molecular y Medicina Regenerativa
Professional category: Principle Investigator
Phone: (0034) 954467463 **Email:** benoit.gauthier@cabimer.es
Start date: 21/10/2009
Type of contract: Permanent employment contract **Dedication regime:** Full time
Primary (UNESCO code): 240000 - Life Science
Secondary (UNESCO code): 240300 - Biochemistry
Performed tasks: 90% Investigation 5% Administracion 5% profesora
Identify key words: Natural sciences and health sciences

Previous positions and activities

	Employing entity	Professional category	Start date
1	Université de Genève	Principal Investigator/Assistant Professor	01/01/2005
2	Université de Genève	Group Leader	01/01/2001
3	Université de Genève	Postdoctoral fellow	01/01/1998



	Employing entity	Professional category	Start date
4	Ottawa Heart Institute	Postdoctoral Fellow	01/01/1996

- 1** **Employing entity:** Université de Genève **Type of entity:** University
City employing entity: Genève, Switzerland
Professional category: Principal Investigator/Assistant Professor **Educational Management (Yes/No):** Yes
Start-End date: 01/01/2005 - 31/12/2009 **Duration:** 4 years
Type of contract: Permanent employment contract
Dedication regime: Full time
Primary (UNESCO code): 240000 - Life Science
Secondary (UNESCO code): 240300 - Biochemistry
Performed tasks: 90% investigation 10% teaching
Field of management activity: University
- 2** **Employing entity:** Université de Genève **Type of entity:** University
City employing entity: Genève, Switzerland
Professional category: Group Leader **Educational Management (Yes/No):** Yes
Start-End date: 01/01/2001 - 31/12/2004 **Duration:** 4 years
Type of contract: Permanent employment contract
Dedication regime: Full time
Primary (UNESCO code): 240000 - Life Science
Secondary (UNESCO code): 240300 - Biochemistry
Performed tasks: 90% investigation 10% teaching
Field of management activity: University
- 3** **Employing entity:** Université de Genève **Type of entity:** University
City employing entity: Genève, Switzerland
Professional category: Postdoctoral fellow **Educational Management (Yes/No):** No
Start-End date: 01/01/1998 - 31/12/2000 **Duration:** 2 years
Type of contract: Permanent employment contract
Dedication regime: Full time
Primary (UNESCO code): 240000 - Life Science
Secondary (UNESCO code): 240300 - Biochemistry
Performed tasks: 100% investigation
Field of management activity: University
- 4** **Employing entity:** Ottawa Heart Institute **Type of entity:** University Research Institute
City employing entity: Ottawa, Canada
Professional category: Postdoctoral Fellow **Educational Management (Yes/No):** No
Start-End date: 01/01/1996 - 31/12/1997 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 240000 - Life Science
Secondary (UNESCO code): 240300 - Biochemistry
Performed tasks: 100% investigation



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Higher degree
Name of qualification: Master's in Biology
City degree awarding entity: Ottawa, Canada
Degree awarding entity: University of Ottawa **Type of entity:** University
Date of qualification: 1990

- 2** **University degree:** Higher degree
Name of qualification: Bachelor's in Biology
City degree awarding entity: Ottawa, Canada
Degree awarding entity: University of Ottawa **Type of entity:** University
Date of qualification: 1989

Doctorates

Doctorate programme: Biochemistry
Degree awarding entity: Queen's University **Type of entity:** University
City degree awarding entity: Kingston, Canada
Date of degree: 1996
Thesis title: New insights into the regulation of the human 3-hydroxy-3-methylglutaryl coenzyme a reductase
Thesis director: Roger Deeley

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Spanish	B2	B2	B1	B1	A2
French	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2

Teaching experience



Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** LRH-1/NR5a2 and Pancreatic Islet Physiology: From Organogenesis and Survival to Immune-Mediated Regeneration
Entity: FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD
Student: Maria Eugenia Martin Vazquez-Garcia
Date of reading: 01/01/2023
- 2** **Project title:** Two novel therapies for the treatment of type 1 diabetes mellitus
Type of project: Doctoral thesis
Entity: Universidad de Sevilla **Type of entity:** University
Student: Irene de Gracia Herrera Gómez
Date of reading: 14/01/2019
- 3** **Project title:** The role of Pax8 in Pancreatic Islet Physiology
Type of project: Doctoral thesis
Entity: Universidad Pablo de Olavide **Type of entity:** University
Student: Livia Lopez Noriega
Date of reading: 08/07/2018
- 4** **Project title:** ACLY inhibition and diabetes
Type of project: End of course project
Entity: Universidad de Sevilla **Type of entity:** University
City of entity: sevilla, Andalusia, Spain
Student: O. Aguilar Sopeña
Date of reading: 01/06/2017
- 5** **Project title:** LRH-1 beta cell specific ablation results in aberrant islet architecture and pre-mature death
Type of project: End of course project
Entity: Universidad de Sevilla **Type of entity:** University
Student: D. Parras Molina
Date of reading: 01/06/2017
- 6** **Project title:** The role of Thyroid supplementation on whole body metabolism
Type of project: End of course project
Entity: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalusia, Spain
Student: A.J. Narbona Perez
Date of reading: 01/06/2017
- 7** **Project title:** Characterization of the Diabetes gene HMG20A in pancreatic islets
Type of project: Masters
Entity: Universidad Pablo de Olavide **Type of entity:** University
Student: Juan Gomez Pinto
Date of reading: 03/04/2017
- 8** **Project title:** Evaluating the cellular consequences and potential of ACLY inhibition as a therapeutic tool against metabolic syndrome
Type of project: Masters



Entity: Universidad Pablo de Olavide
Student: Gonzalo Vazquez Gomez
Date of reading: 03/04/2017

Type of entity: University

9 Project title: Establish whether pax8 expression protects islet β -cells against cytokine induced apoptosis

Type of project: Masters

Entity: Université Paris Sud

Type of entity: University

Student: Alienor Boulet

Date of reading: 10/2015

10 Project title: The role of Pax8 in pancreatic islet physiology and pathophysiology

Type of project: Doctoral thesis

Entity: Universidad Pablo de Olavide

Type of entity: University

City of entity: Seville, Spain

Student: Carmen María Jiménez Moreno

Date of reading: 29/06/2015

11 Project title: Assessing the role of Pax8 in pancreatic physiology and glucose homeostasis

Type of project: Masters

Entity: Universidad Pablo de Olavide

Type of entity: University

Student: Livia Lopez Noriega

Date of reading: 04/2015

12 Project title: Pax4-expressing endocrine pancreatic cells: changes in expression pattern during pregnancy and validation of Pax4 target genes implicated in metabolic pathways

Type of project: Masters

Entity: Universidad de Sevilla

Type of entity: University

Student: Irene de Garcia Herrera Gomez

Date of reading: 06/2014

13 Project title: Role of LRH-1/NR5A2 in islet physiology and pathophysiology

Type of project: Doctoral thesis

Entity: University of Geneva, Switzerland

Type of entity: University

Student: Mathurin Baquié

Date of reading: 2010

14 Project title: Role of Pax4 in beta cell plasticity. Generation of two transgenic mouse models

Type of project: Doctoral thesis

Entity: University of Geneva, Switzerland

Type of entity: University

City of entity: Genève, Switzerland

Student: Hu He, Kai Hui

Date of reading: 2009

15 Project title: Investigation of rat hepatic adult oval stem cells and human peripheral blood monocytes as feasible sources for the generation of surrogate beta cell in vitro

Type of project: Doctoral thesis

Entity: University of Geneva, Switzerland

Type of entity: University

City of entity: Genève, Switzerland

Student: Corcelle, Veronique

Date of reading: 2006



- 16** **Project title:** Induction and prevention of autoreactive, preproinsulin-specific CD8 T-cell responses in young and old mice by DNA- and protein-based immunization
Type of project: Doctoral thesis
Co-director of thesis: Benoit Gauthier; R Schirmbeck
Entity: International PhD Programme in Molecular Medicine Medical Faculty – Ulm University
Type of entity: University
City of entity: Ulm, Germany
Student: Katja Stifter
- 17** **Project title:** PAX8, a guardian of islet survival and function during pregnancy
Entity: Universidad Pablo de Olavide
Type of entity: University
Student: Livia Lopez Noriega
- 18** **Project title:** SVac vector as an immuno-modulator vehicle for the treatment of type I Diabetes Mellitus (T1DM) in the RIP-B7.1 mouse model
Entity: Universidad de Sevilla
Type of entity: University
Student: Irene de Gracia Herrera Gomez

Most relevant contributions of your teaching CV

- 1** **Description:** Profesor Asistente
City of activity: Geneva, Switzerland
Organising entity: University of Geneva
Type of entity: University
End date: 01/06/2009
- 2** **Description:** Profesor Asociado
City of activity: Seville, Spain
Organising entity: Universidad Pablo de Olavide
Type of entity: University

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** LRH-1/NR5a2 and Pancreatic Islet Physiology: From Organogenesis and Survival to Immune-Mediated Regeneration
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI...): Benoit R. Gauthier
Nº of researchers: 1
Funding entity or bodies: Ministerio de Ciencia Innovación y Universidades
Type of entity: Public Research Body
Start-End date: 01/01/2018 - 31/12/2021
Total amount: 316.000 €



2 Name of the project: LRH-1/NR5A2 agonism to stimulate immune coupled human islet beta cell regeneration

Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa **Type of entity:** Public Research Body

City of entity: seville, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Benoit R Gauthier

Nº of researchers: 1

Funding entity or bodies:

Juvenile Diabetes Research Foundation

Type of entity: privada

City funding entity: New Your, United States of America

Start-End date: 01/08/2019 - 31/07/2021

Total amount: 480.000 €

3 Name of the project: Activación de LRH1 mediada por BL001 para promover la transdiferenciación de células alfa a células beta en un modelo de diabetes autoinmune

Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa **Type of entity:** Public Research Body

City of entity: sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Benoit Gauthier

Nº of researchers: 2

Funding entity or bodies:

DiabetesCero

Start-End date: 2017 - 2020

Total amount: 55.000 €

4 Name of the project: Activación de LRH1 mediada por BL001 para promover la transdiferenciación de células alfa a células beta en un modelo de diabetes autoinmune

Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa **Type of entity:** Public Research Body

City of entity: sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Benoit R Gauthier

Nº of researchers: 2

Funding entity or bodies:

Diabetes Cero

Type of entity: Associations and Groups

City funding entity: Icejá, Spain

Start-End date: 01/11/2018 - 31/10/2019

Total amount: 30.000 €

5 Name of the project: Del Gen Al Paciente: el Papel de Hmg20a en Diabetes y Obesidad

Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa **Type of entity:** Public Research Body

City of entity: sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Esther Fuente Martin; Benoit Gauthier

Nº of researchers: 2

Funding entity or bodies:

Consejería de Salud de la Junta de Andalucía

Type of entity: government

City funding entity: Sevilla, Andalusia, Spain

Start-End date: 2017 - 2019

Total amount: 47.000 €



- 6** **Name of the project:** Diabetes and Cancer
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Benoit Gauthier
N° of researchers: 6
Funding entity or bodies:
Vencer el Cáncer
City funding entity: madrid, Community of Madrid, Spain
Start-End date: 2015 - 2019
Total amount: 50.000 €
- 7** **Name of the project:** The study of Four Islet-associated genes: From Physiological consequences to drug development for the treatment of diabetes
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Benoit R. Gauthier
Funding entity or bodies:
Ministerio de Ciencia y Innovacion, Instituto de Salud Carlos III
Type of entity: State agency
City funding entity: Spain
Start-End date: 2014 - 2017
Total amount: 211.000 €
- 8** **Name of the project:** LRH-1, a Novel Therapeutic Immunomodulator Implicated in beta Cell Health
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
City of entity: Sevilla, Spain
Name principal investigator (PI, Co-PI....): Benoit R. Gauthier
Funding entity or bodies:
Juvenile Diabetes Research Foundation JDRF
Type of entity: Foundation
City funding entity: New York, United States of America
Start-End date: 2013 - 2016
Total amount: 495.000 €
- 9** **Name of the project:** Pax4: Una Posible Conexión Entre Diabetes y Cáncer
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Lorenzo, PI
Funding entity or bodies:
Consejería de Igualdad Salud y Políticas Sociales
Type of entity: State agency
City funding entity: Andalusia, Spain
Start-End date: 2013 - 2015
Total amount: 52.331 €



- 10 Name of the project:** Pax Genes and Pancreatic Islet Physiology in Health and Disease
Type of project: Research and development, including transfer
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
Name principal investigator (PI, Co-PI...): Benoit R. Gauthier
N° of researchers: 1
Funding entity or bodies: Ministerio de Ciencia, Innovación y Universidades
Type of entity: State agency
Code according to the funding entity: PI10/00871
Start-End date: 03/01/2011 - 28/02/2014
Duration: 3 years
Total amount: 142.780 €
Dedication regime: Part time
- 11 Name of the project:** Pax4-mediated β -cell survival in an animal model of Type 1 diabetes: Non-invasive in vivo imaging of β -cell mass and genome wide analysis of transcriptional networks implicated in cell plasticity
Type of project: Research and development, including transfer
Geographical area: Regional
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
N° of researchers: 1
Funding entity or bodies: Consejería de Economía e Innovación
Type of entity: State agency
Name of the programme: INCENTIVOS A PROYECTOS DE INVESTIGACIÓN DE EXCELENCIA
Code according to the funding entity: CTS-6359
Start-End date: 01/01/2011 - 31/12/2013
Duration: 3 years
Total amount: 125.000 €
Dedication regime: Part time
- 12 Name of the project:** The orphan nuclear receptor LRH-1 as a therapeutic drug target for the treatment of diabetes
Type of project: Research and development, including transfer
Geographical area: Regional
Entity where project took place: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Type of entity: Public Research Body
Name principal investigator (PI, Co-PI...): Benoit R. Gauthier
N° of researchers: 1
Funding entity or bodies: Consejería de Salud de la Junta de Andalucía
Type of entity: Salud
City funding entity: Sevilla, Andalusia, Spain
Name of the programme: PROYECTOS DE INVESTIGACION
Code according to the funding entity: PI-0727/2010
Start-End date: 01/01/2011 - 31/12/2013
Duration: 3 years
Total amount: 50.000 €
Dedication regime: Part time
- 13 Name of the project:** Role of pax4 in the regulation of pancreatic islet beta cell mass in human and rodents
Geographical area: National
Degree of contribution: Other



Entity where project took place: University of Geneva **Type of entity:** University

City of entity: Geneva, Switzerland

Name principal investigator (PI, Co-PI....): Benoit R. Gauthier

Nº of researchers: 1

Funding entity or bodies:

Swiss National Research Foundation

Type of entity: State agency

City funding entity: Bern, Switzerland

Code according to the funding entity: 310000-119763/1

Start-End date: 01/04/2008 - 31/03/2011

Duration: 3 years - 1094 days

Total amount: 240.000 €

Dedication regime: Part time

14 Name of the project: Chicago Diabetes Project

Geographical area: other

Degree of contribution: other

Entity where project took place: University of Geneva

City of entity: Geneva, Switzerland

Name principal investigator (PI, Co-PI....): Benoit Raymond Gauthier

Nº of researchers: 1

Funding entity or bodies:

University of Illinois

Type of entity: University

City funding entity: Chicago, United States of America

Code according to the funding entity: 1

Start-End date: 01/01/2009 - 30/09/2009

Duration: 9 months

Total amount: 40.000 €

15 Name of the project: Human blood monocytes as a source of surrogate beta cells for cellular therapy of type 1 diabetes; establishment of an optimal and reproducible protocol

Type of project: Research and development, including transfer

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: University of Geneva

City of entity: Geneva, Switzerland

Name principal investigator (PI, Co-PI....): Benoit R. Gauthier

Nº of researchers: 1

Name of the programme: European Foundation for the Study of Diabetes

Code according to the funding entity: EFSD/LILLY

Start-End date: 01/02/2007 - 30/09/2009

Duration: 19 months

Total amount: 100.000 €

Dedication regime: Part time

16 Name of the project: Role of Pax4 in beta-cell plasticity

Type of project: Basic research (including archaeological digs, etc)

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: University of Geneva

Type of entity: University

City of entity: Geneva, Switzerland

Name principal investigator (PI, Co-PI....): Benoit Raymond Gauthier

**Nº of researchers:** 1**Funding entity or bodies:**

Novo/Nordisk Fellowship

Type of entity: Business**Start-End date:** 01/10/2005 - 30/09/2009**Duration:** 4 years**Total amount:** 100.000 €**Dedication regime:** Part time**17 Name of the project:** Role of Pax4 in islet plasticity**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** Non EU International**Degree of contribution:** Researcher**Entity where project took place:** University of Geneva**City of entity:** Geneva, Switzerland**Name principal investigator (PI, Co-PI....):** Benoit Gauthier; Cleas Wollheim**Nº of researchers:** 2**Funding entity or bodies:**

Juvenile Diabetes Research Foundation

Type of entity: Foundation**City funding entity:** New York, United States of America**Start-End date:** 01/07/2005 - 30/06/2008**Duration:** 3 years**Total amount:** 465.000 €**Dedication regime:** Part time**18 Name of the project:** The functional impact of the transcription factor Pax4 on pancreatic beta cell plasticity. an in vitro and in vivo approach**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** University of Geneva**Type of entity:** University**City of entity:** Geneva, Switzerland**Name principal investigator (PI, Co-PI....):** Benoit Raymond Gauthier**Nº of researchers:** 1**Funding entity or bodies:**

Swiss National Research Foundation

Type of entity: Administrative Body of the National Health System**City funding entity:** Bern, Switzerland**Code according to the funding entity:** 3100A0-107682/1**Start-End date:** 01/04/2005 - 31/03/2008**Duration:** 3 years**Total amount:** 173.000 €**Dedication regime:** Part time**19 Name of the project:** Characterization of a Pax4 expressing mouse islet subpopulation prone to proliferation**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** University of Geneva**Type of entity:** University**City of entity:** Geneva, Switzerland**Name principal investigator (PI, Co-PI....):** Benoit R. Gauthier**Nº of researchers:** 1

**Funding entity or bodies:**

Novartis Foundation

Type of entity: Foundation**City funding entity:** Basel, Switzerland**Start-End date:** 01/01/2006 - 31/12/2007**Duration:** 1 year**Total amount:** 33.000 €**Dedication regime:** Part time

20 **Name of the project:** Activation of the beta cell genetic program in human blood monocytes by sequential expression, of key pancreatic transcription factors

Type of project: Basic research (including archaeological digs, etc)**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** University of Geneva**Type of entity:** University**City of entity:** Geneva, Switzerland**Name principal investigator (PI, Co-PI....):** Benoit Gauthier**N° of researchers:** 1**Funding entity or bodies:**

Von Meissner Foundation

Type of entity: Foundation**City funding entity:** Geneva, Switzerland**Start-End date:** 01/06/2005 - 30/05/2006**Duration:** 1 year**Total amount:** 33.000 €**Dedication regime:** Part time**R&D non-competitive contracts, agreements or projects with public or private entities**

1 **Name of the project:** Validation in a preclinical model the therapeutic capacity of an SV40 viral vector expressing auto-antigens for the treatment of type 1 Diabetes

Degree of contribution: Scientific coordinator**Name principal investigator (PI, Co-PI....):** Benoit Gauthier**N° of researchers:** 1**Funding entity or bodies:**

Amarna Therapeutics

Type of entity: Business**City funding entity:** Leiden, Holland**Start date:** 03/10/2016**Duration:** 1 year**Total amount:** 37.000 €

2 **Name of the project:** Cancer and Diabetes

Degree of contribution: Coordinator of total project, network or consortium**N° of researchers:** 1**Funding entity or bodies:**

ALUSVI

Type of entity: association**City funding entity:** Pílas, Andalusia, Spain**Start date:** 01/04/2013**Total amount:** 20.000 €

Results

Industrial and intellectual property

- 1** **Title registered industrial property:** LSD1 INHIBITORS FOR USE IN THE TREATMENT OF TYPE 2 DIABETES
Inventors/authors/obtainers: Jose Carlos Reyes Rosa; Gemma Rojo Martinez; Francisco Javier Bermudez Silva; Jose Manuel Mellado Gil; Nadia Cobo Vuilleumier; Esther Fuente Martin; Petra Lorenzo Ovejero; Benoit R. Gauthier
Entity holder of rights: FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD
N° of application: EP19382051
Country of inscription: Spain, Andalusia
Date of register: 24/01/2019

- 2** **Title registered industrial property:** Compuestos para el tratamiento de la diabetes mellitus
Inventors/authors/obtainers: Alejandro Martin Montalvo; Benoit Gauthier; Livia Lopez Noriega; Nadia Cobo Vuilleumier
Entity holder of rights: FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD
N° of application: P201731031
Country of inscription: Spain, Community of Madrid
Date of register: 11/08/2017

- 3** **Title registered industrial property:** Agents for increasing the secretion of anti-inflammatory cytokines
Inventors/authors/obtainers: Benoit Gauthier; Nadia Cobo Vuilleumier; David Pozo Perez
Entity holder of rights: FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD
N° of application: WO/2016/156531
Country of inscription: Spain, Community of Madrid
Date of register: 31/03/2016

- 4** **Title registered industrial property:** Anti-inflammatory Agents
Inventors/authors/obtainers: David Pozo Perez; Luc St-Onge; Benoit Gauthier
Entity holder of rights: FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD
N° of application: EP15382160
Country of inscription: Spain, Community of Madrid
Date of register: 31/03/2015

- 5** **Title registered industrial property:** Novel methods for preventing or treating diabetes
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Mathurin Baquié; Cleas Wollheim; Luc St-Onge; Benoit Gauthier
Entity holder of rights: FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD
N° of application: 10 005 286.9
Country of inscription: Spain, Andalusia
Date of register: 20/05/2010
N° of patent: WO2011/144725
International non-EU patent: Yes **PCT patent:** Yes



- 6 Title registered industrial property:** Use of Pax4 in pancreatic cell proliferation.
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Roland Wehr; Thierry Brun; Benoit Gauthier; Cleas Wollheim
Entity holder of rights: University of Geneva
Country of inscription: Switzerland
Date of register: 09/08/2005
N° of patent: WO2006/015853
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: No **PCT patent:** Yes

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Silvana Yanina Romero Zerbo; María García Fernández; Vanesa Espinosa Jimenez; Macarena Pozo Morales; Alejandro Escamilla Sánchez; Lourdes Sánchez Salido; Estrella Lara; Nadia Cobo Vuilleumier; Alex Rafacho; Gabriel Oliveira; Gemma Rojo Martínez; Benoit R Gauthier; Isabel González Mariscal. THE ATYPICAL CANNABINOID ABN-CBD REDUCES INFLAMMATION AND PROTECTS LIVER, PANCREAS AND ADIPOSE TISSUE IN A MOUSE MODEL OF PREDIABETES AND NON-ALCOHOLIC FATTY LIVER DISEASE. *Frontiers Endocrinology*. *Frontiers*, 01/03/2020.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - ENDOCRINOLOGY & METABOLISM
Impact index in year of publication: 3,63 **Journal in the top 25%:** No
Position of publication: 49 **No. of journals in the cat.:** 145
- 2** PI Lorenzo; A Martin Montalvo; N Cobo Vuilleumier; BR Gauthier. Molecular Modelling of Islet β -cell Adaptation to Inflammation in Pregnancy and Gestational Diabetes Mellitus. *International Journal of Molecular Sciences*. 20, pp. 6171. 06/12/2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes **Category:** Biochemistry, Genetics and Molecular Biology
Impact source: SCOPUS **Journal in the top 25%:** Yes
Impact index in year of publication: 4.71 **No. of journals in the cat.:** 373
Position of publication: 84
- 3** Livia Lopez Noriega; Vivian Capilla Gonzalez; Nadia Cobo Vuilleumier; Eugenia Martin Vazquez; Petra Lorenzo; Enrique Martinez Force; Mario Soriano Navarro; Maria Garcia Fernandez; Silvana Yanina Romero Zerbo; Francisco Javier Bermudez Silva; Irene Diaz Contreras; Ana Sanchez Cuesta; Carlos Santos Ocaña; Abdelkrim Hmadcha; Bernat Soria; Francisco Martin Bermudo; Benoit Raymond Gauthier; Alejandro Martin Montalvo. Inadequate control of thyroid hormones sensitizes to hepatocarcinogenesis and unhealthy aging. *Aging*. 11 - 18, pp. 7746 - 779. 13/09/2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes **Category:** Biochemistry, Genetics and Molecular Biology
Impact source: SCOPUS **Aging**

Impact index in year of publication: 4,06

Position of publication: 7

Source of citations: SCOPUS

Journal in the top 25%: Yes

No. of journals in the cat.: 30

- 4** Eva Bru Tari; Nadia Cobo Vuilleumier; Paloma Alonso Magdalena; Reinaldo Dos Santos; Laura Marroqui; Angel Nadal; Benoit R. Gauthier; Ivan Quesada. Pancreatic alpha-cell mass in the early-onset and advanced stage of a mouse model of experimental autoimmune diabetes. Scientific Reports. in press, 01/08/2019.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: SCOPUS

Category: Multidisciplinary

Impact index in year of publication: 4,35

Journal in the top 25%: Yes

Position of publication: 6

No. of journals in the cat.: 91

- 5** Esther Fuente Martín; Jose M Mellado Gil; Nadia Cobo Vuilleumier; Alejandro Martín Montalvo; Silvana Y Romero Zerbo; Irene Diaz Contreras; Abdelkrim Hmadcha; Bernat Soria; Francisco Martin Bermudo; Jose C Reyes; Francisco J Bermúdez Silva; Petra I Lorenzo; Benoit R Gauthier. Dissecting the Brain/Islet Axis in Metabesity. Genes. 10 - 5, pp. E350. (Switzerland): 08/05/2019. ISSN 2073-4425

Type of production: Scientific paper

Corresponding author: Yes

Impact source: SCOPUS

Category: Biochemistry, Genetics and Molecular Biology, Genetics

Impact index in year of publication: 3,81

Journal in the top 25%: Yes

Position of publication: 77

No. of journals in the cat.: 316

- 6** Benoit R. Gauthier; JC Moreno; J Anselmo; L Herranz; M Garcia Toscano; D Bosco; F Lebreton; JSWR Hofsteede; C González Guerrero; A Tamayo; Nadia Cobo Vuilleumier; Petra Lorenzo; Amanda Herranz; Carmen Jiménez Moreno; Livia López Noriega; Alejandro Martin Montalvo. Transient PAX8 Expression in Islets During Pregnancy Correlates With Beta Cell Survival Revealing a Novel Candidate Gene in Gestational Diabetes Mellitus. Diabetes. 68 - 1, pp. 109 - 118. American Diabetes Association, 08/01/2019.

Type of production: Scientific paper

Corresponding author: Yes

Impact source: SCOPUS

Category: Medicine: Endocrinology, Diabetes and Metabolism

Impact index in year of publication: 5,9

Journal in the top 25%: Yes

Position of publication: 14

No. of journals in the cat.: 211

- 7** Petra Lorenzo; Nadia Cobo Vuilleumier; Benoit R Gauthier. Therapeutic potential of pancreatic PAX4-regulated pathways in treating Diabetes Mellitus. Current Opinion in Pharmacology. 43, pp. 1 - 10. 28/06/2018.

Type of production: Scientific paper

Corresponding author: Yes

Impact source: SCOPUS

Category: Pharmacology, Toxicology and Pharmaceutics Drug Discovery

Impact index in year of publication: 4,75

Journal in the top 25%: Yes

Position of publication: 9

No. of journals in the cat.: 146

- 8** Nadia Cobo Vuilleumier; Petra Lorenzo; Benoit R Gauthier. Targeting LRH-1/NR5A2 to treat type 1 diabetes mellitus. Cell Stress. 2 - 6, pp. 122 - 124. 04/06/2018.

Type of production: Scientific paper

Corresponding author: Yes



- 9** N Cobo Vuilleumier; P.I. Lorenzo; N. García Rodríguez; I. Herrera Gómez; E. Fuente Martin; L. López Noriega; Y. Romero Zerbo; M. Baquié; C.C. Lachaud; K. Stifter; G. Perdomo; M. Bugliani; M. Masini; D. Bosco; G. Parnaud; D. Pozo; J.P. Florido; M.G. Toscano; P. Marchetti; R. Schirmbeck; F.J. Bermúdez Silva; A. Martin Montalvo; P. Meda; B. Soria; L. St-Onge; B.R. Gauthier. LRH-1 Agonism Favours an Immune-Islet Dialogue, which Protects Against Diabetes Mellitus. *Nature Communications*. 9, pp. 1488. Nature Publishing group, 16/04/2018.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: SCOPUS **Category:** Biochemistry, Genetics and Molecular Biology
General Biochemistry, Genetics and Molecular Biology
Impact index in year of publication: 12,19 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 189
- 10** Laura Villamayor; Elisa Rodriguez Seguel; Raquel Araujo; Manuel Carrasco; Eva Bru Tari; José Manuel Mellado Gil; Benoit R. Gauthier; Paola Martinelli; Ivan Quesada; Bernat Soria; Franz Martin; David A. Cano; Anabel Rojas. GATA6 controls insulin biosynthesis and secretion in adult beta cell. *Diabetes*. 67, pp. 448 - 460. 01/03/2018.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: SCOPUS **Category:** Medicine Endocrinology, Diabetes and Metabolism
Impact index in year of publication: 5,64 **Journal in the top 25%:** Yes
Position of publication: 14 **No. of journals in the cat.:** 211
- 11** Jose Mellado Gil; Esther Fuente Martin; Petra Lorenzo; Nadia Cobo Vuilleumier; Maria Ceballos Chavez; Antonio Campos Caro; Julia Rodriguez Comas; Joan Marc Servitja; Gemma Rojo Martinez; Javier Bermudez Silva; Jose Carlos Reyes; Manuel Aguilar Diosdado; Benoit R Gauthier. The type 2 diabetes mellitus-associated gene HMG20A is required for beta cell functional maturity. *Cell Death and Disease*. 9, pp. 279. Nature publishing, 16/02/2018.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: SCOPUS **Category:** Biochemistry, Genetics and Molecular Biology
Cell Biology
Impact index in year of publication: 5,72 **Journal in the top 25%:** Yes
Position of publication: 32 **No. of journals in the cat.:** 264
- 12** Livia Lopez Noriega; Nadia Cobo Vuilleumier; Alvara-Jesus Narbona Perez; Juan Luis Araujo Garrido; Petra Isabel Lorenzo; Jose-Manuel Mellado Gil; Jose Carlos Moreno; Benoit R Gauthier; Alejandro Martin Montalvo. Levothyroxine en hances glucose clearance and bl unts the onset of experimental type 1 diabetes mellitus in mice. *British Journal of Pharmacology*. 174 - 21, pp. 3795 - 3810. Wiley, 04/12/2017.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: Yes
Impact source: SCOPUS **Category:** Pharmacology, Toxicology and Pharmaceutics
Pharmacology
Impact index in year of publication: 5,97 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 305
- 13** Y Romero Zerbo; I Ruz Maldonado; V Espinosa Jiménez; A Rafacho; A.I. Gómez Conde; L. Sánchez Salido; N. Cobo Vuilleumier; B.R. Gauthier; F.J. Tinahones; S.J. Persaud; F.J. Bermúdez Silva. The cannabinoid ligand LH-21 reduces anxiety and improves glucose handling in diet-induced obese pre-diabetic mice. *Scientific Reports*. 7 - 1, pp. 3946. Nature publishing group, 26/04/2017.
Type of production: Scientific paper **Format:** Journal

**Corresponding author:** No**Impact source:** SCOPUS**Impact index in year of publication:** 4,36**Position of publication:** 5**Category:** Multidisciplinary**Journal in the top 25%:** Yes**No. of journals in the cat.:** 87

- 14** Petra I Lorenzo; Francisco Juárez Vicente; Nadia Cobo Vuilleumier; Mario García Domínguez; Benoit R Gauthier. The Diabetes-Linked Transcription Factor PAX4: From Gene to Functional Consequences. *Genes*. 8 - 3, pp. E101. (Switzerland): 09/03/2017.

Type of production: Scientific paper**Format:** Journal**Corresponding author:** Yes**Impact source:** SCOPUS**Category:** Biochemistry, Genetics and Molecular Biology
Genetics**Impact index in year of publication:** 3,55**Journal in the top 25%:** Yes**Position of publication:** 71**No. of journals in the cat.:** 310

- 15** Alejandro Martin Montalvo; Petra I Lorenzo; Livia López Noriega; Benoit R Gauthier. Targeting pancreatic expressed PAX genes for the treatment of diabetes mellitus and pancreatic neuroendocrine tumors. Expert opinion on therapeutic targets. 21 - 1, pp. 77 - 89. 01/2017. ISSN 1744-7631

Type of production: Scientific paper**Format:** Journal**Corresponding author:** Yes**Impact source:** SCOPUS**Category:** Pharmacology, Toxicology and
Pharmaceutics Drug Discovery**Impact index in year of publication:** 4,18**Journal in the top 25%:** Yes**Position of publication:** 19**No. of journals in the cat.:** 150

- 16** V Plaisance; S Brajkovic; M Tenenbaum; D Favre; H Ezanno; A Bonnefond; C Bonner; V Gmyr; J Kerr Conte; B.R. Gauthier; C Widmann; G Waeber; F Pattou; P Froguel; A Abderrahmani. Endoplasmic Reticulum Stress Links Oxidative Stress to Impaired Pancreatic Beta-Cell Function Caused by Human Oxidized LDL. *PLoS one*. 11 - 9, pp. e0163046. PLOS, 16/09/2016.

Type of production: Scientific paper**Format:** Journal**Corresponding author:** No**Impact source:** SCOPUS**Category:** General Biochemistry, Genetics and
Molecular Biology**Impact index in year of publication:** 3,11**Journal in the top 25%:** Yes**Position of publication:** 32**No. of journals in the cat.:** 185

- 17** José Manuel Mellado Gil; Carmen María Jiménez Moreno; Alejandro Martin Montalvo; Ana Isabel Alvarez Mercado; Esther Fuente Martin; Nadia Cobo Vuilleumier; Petra Isabel Lorenzo; Eva Bru Tari; Irene de Gracia Herrera Gómez; Livia López Noriega; Javier Pérez Florido; Javier Santoyo López; Andreas Spyrtantis; Paolo Meda; Bernhard O Boehm; Ivan Quesada; Benoit R Gauthier. PAX4 preserves endoplasmic reticulum integrity preventing beta cell degeneration in a mouse model of type 1 diabetes mellitus. *Diabetologia*. 59 - 4, pp. 755 - 820. (Germany): 04/2016. ISSN 1432-0428

Type of production: Scientific paper**Format:** Journal**Corresponding author:** Yes**Impact source:** SCOPUS**Category:** Medicine Endocrinology, Diabetes and
Metabolism**Impact index in year of publication:** 5,23**Journal in the top 25%:** Yes**Position of publication:** 11**No. of journals in the cat.:** 205

- 18** Petra I Lorenzo; Esther Fuente Martín; Thierry Brun; Nadia Cobo Vuilleumier; Carmen María Jimenez Moreno; Irene G Herrera Gomez; Livia López Noriega; José Manuel Mellado Gil; Alejandro Martin Montalvo; Bernat Soria; Benoit R Gauthier. PAX4 Defines an Expandable Beta-Cell Subpopulation in the Adult Pancreatic Islet. Scientific reports. 5, pp. 15672. 27/10/2015. ISSN 2045-2322
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: SCOPUS **Category:** Multidisciplinary
Impact index in year of publication: 5,3 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 98
- 19** Bernat Soria; Benoit R Gauthier; Franz Martín; Juan R Tejedo; Francisco J Bedoya; Anabel Rojas; Abdelkrim Hmadcha. Using stem cells to produce insulin. Expert opinion on biological therapy. 15 - 10, pp. 1469 - 1558. 03/10/2015. ISSN 1744-7682
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: SCOPUS **Category:** Biochemistry, Genetics and Molecular Biology
Impact index in year of publication: 3,21 **Journal in the top 25%:** Yes
Position of publication: 21 **No. of journals in the cat.:** 123
- 20** Carmen Maria Jimenez Moreno; Irene de Gracia Herrera Gomez; Livia Lopez Noriega; Petra Isabel Lorenzo; Nadia Cobo Vuilleumier; Esther Fuente Martin; Jose Manuel Mellado Gil; Geraldine Parnaud; Domenico Bosco; Benoit Raymond Gauthier; Alejandro Martin Montalvo. A Simple High Efficiency Intra-Islet Transduction Protocol Using Lentiviral Vectors. Current gene therapy. 15 - 4, pp. 436 - 482. 01/07/2015. ISSN 1875-5631
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: SCOPUS **Category:** Biochemistry, Genetics and Molecular Biology
Impact index in year of publication: 2,65 **Journal in the top 25%:** No
Position of publication: 166 **No. of journals in the cat.:** 351
- 21** Acosta L; Hmadcha A; Escacena N; Pérez-Camacho I; de la Cuesta A; Ruiz-Salmeron R; Gauthier BR; Soria B. Adipose mesenchymal stromal cells isolated from type 2 diabetic patients display reduced fibrinolytic activity. Diabetes. 62 - 12, pp. 4266 - 4269. 2013.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 22** Ana Isabel Alvarez Mercado; Nadia Cobo Vuilleumier; Eduardo Suaz Martin; Benoit Gauthier. Emerging Therapeutic Targets in Regenerative Medicine for the Treatment of Diabetes Mellitus: A Patent Literature Review. Recent Patents on Regenerative Medicine. 3 - 1, pp. 56 - 62. 2013. ISSN 2210-2965
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 23** Bernat Soria Escoms; Benoit Raymond Gauthier. The dual trade of Bcl-2 and Bcl-xL in islet physiology: Balancing life and death with metabolism secretion coupling. Diabetes. 62 - 1, pp. 18 - 21. 2013. ISSN 0012-1797
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Relevant publication: No



- 24** José Manuel Mellado Gil; Nadia Cobo Vuilleumier; Benoit Raymond Gauthier. Islet β -Cell Mass Preservation and Regeneration in Diabetes Mellitus: Four Factors with Potential Therapeutic Interest. *Journal of Transplantation*. 2012, pp. 230870 - 230877. 2012. ISSN 2090-0007
Type of production: Scientific paper
Corresponding author: Yes
- 25** Nadia Cobo Vuilleumier; Benoit Raymond Gauthier. PARP-1 and cytokine-mediated β -cell damage: a nick in the Okamoto model?. *American Journal of Physiology Endocrinology Metabolism*. 303 - 2, pp. E170 - E171. 2012.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
- 26** Kirkpatrick, C.I.; Wiederkehr, A; Baquie, M; Akhmedov, D; Wang, H; Benoit Raymond Gauthier; Akerman, I; Ishihara, H; Ferrer, Jorge; Wollheim, C.b. Hepatic nuclear factor 1alpha (HNF1alpha) dysfunction down-regulates X-box-binding protein 1 (XBP1) and sensitizes beta-cells to endoplasmic reticulum stress. *Journal of Biological Chemistry*. 286 - 37, pp. 32300 - 32312. 2011. Available on-line at: <<http://www.ncbi.nlm.nih.gov/pubmed/21784843>>.
Type of production: Scientific paper
Format: Journal
Corresponding author: No
- 27** Petra Isabel Lorenzo; Carmen María Jimenez Moreno; Irene Delgado Sainz; Nadia Cobo Vuilleumier; Meier, R; Lourdes Gómez Izquierdo; Berney, T; Rocío García Carbonero; Ana Isabel Rojas González; Benoit Raymond Gauthier. Immunohistochemical assessment of Pax8 expression during pancreatic islet development and in human neuroendocrine tumors. *HISTOCHEM CELL BIOL*. 35 - 12, pp. 1906 - 1908. 2011.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
- 28** Hu-he, Kh; Petra Isabel Lorenzo; Brun, T; Carmen María Jimenez Moreno; Aeberhard, D; Jorge Vallejo Ortega; Cornu, M; Thorel, F; Gjinovci, A; Thorens, B; Herrera, P; Meda, P; Wollheim, C.B.; Benoit Raymond Gauthier. In vivo conditional Pax4 overexpression in mature islet β -cells prevents stress-induced hyperglycemia in mice. *Diabetes*. 60 - 6, pp. 1705 - 1715. 2011. Available on-line at: <d4ec000f-bad0-4a0b-ab08-d87f941865db>.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
- 29** Carmen María Jimenez Moreno; Petra Isabel Lorenzo; Irene Delgado Sainz; Nadia Cobo Vuilleumier; Rocío García Carbonero; Ana Isabel Rojas González; Benoit Raymond Gauthier. Pax8 detection in well-differentiated pancreatic endocrine tumors: how reliable is it?. *American Journal Surgical Pathology*. 35 - 12, pp. 1906 - 1908. 2011. Available on-line at: <b0569577-3203-47df-a011-268aca3b75a4>.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
- 30** Baquie, Mathurin; St-onge, L; Kerr-conte, J; Nadia Cobo Vuilleumier; Petra Isabel Lorenzo; Carmen María Jimenez Moreno; Cederroth, Cr; Nef, S; Borot, S; Bosco, D; Wang, H; Marchetti, P; Pattou, F; Wollheim, Cb; Benoit Raymond Gauthier. The liver receptor homolog-1 (LRH-1) is expressed in human islets and protects β -cells against stress-induced apoptosis. *HUM MOL GENET*. 20 - 14, pp. 2823 - 2833. 2011. Available on-line at: <<http://www.ncbi.nlm.nih.gov/pubmed/21536586>>.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
- 31** Nadia Cobo Vuilleumier; Benoit Raymond Gauthier. To be replicating after 30: retrospective dating of human pancreatic islets. *J Clin Endocrinol Metab*. 95 - 10, pp. 4552 - 4554. 2010. Available on-line at: <<http://www.ncbi.nlm.nih.gov/pubmed/20926542>>.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes



- 32** Serre-Beinier-,V; Bosco-,D; Zulianello-,L; Charollais-,A; Caille-,D; Charpentier-,E; Benoit Raymond Gauthier; Diaferia-,G.R; Giepmans-,B.N.; Lupi-,R; Marchetti-,P; Deng-,S; Buhler-,L; Berney-,T; Cirulli-,V; Meda-, P. CX36 makes channels coupling human pancreatic beta-cells, and correlates with insulin expression.Human Molecular Genetics. 18, pp. 428 - 439. 2009.
Type of production: Scientific paper
Format: Journal
- 33** Benoit Raymond Gauthier; Wiederkehr, A; Baquie, M; Dai, C; Powers, A.c.; Kerr-conte, J; Pattou, F; Macdonald, R.j.; Ferrer, J.; Wollheim, C.b.Pdx1 deficiency causes mitochondrial dysfunction and defective insulin secretion through TFAM suppression.Cell metabolism. 10, pp. 110 - 118. 2009. ISSN 1550-4131
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 17.350
- 34** Brun-,T; Benoit Raymond Gauthier. A focus on the role of Pax4 in mature pancreatic islet b-cell plasticity in health and disease.J. mol. endocrinol.40, pp. 37 - 45. 2008.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 3.225
- 35** Wellershaus-,K; Degen-,J; Deuchars-,J; Theis-,M; Charollais-,A; Caille-,D; Benoit Raymond Gauthier; Janssen-Bienhold-,U; Sonntag-,S; Herrera-,P.L.; Meda-, P; Willecke-,K. A new conditional mouse mutant reveals specific expression and functions of connexin36 in neurons and pancreatic beta-cells.Exp. cell res.314, pp. 997 - 1012. 2008.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 3.948
- 36** Alonso-Magdalena-,P; Ropero-,A.B.; Cederroth-,C.R.; Baquie-,M; Benoit Raymond Gauthier; Nef-,S; Stefani-,E; Nadal-, Angel. Pancreatic insulin content regulation by the estrogen receptor ER alpha.PloS one. 3, pp. E2069 - E2075. 2008.
Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 0,743
- 37** Benoit Raymond Gauthier; Wollheim-, C.B.Synaptotagmins bind calcium to release insulin.AM J PHYSIOL-ENDOC M. 295, pp. 1279 - 1286. 2008.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.855
- 38** Brun-,T; Hu He-, K.H.; Lupi-,R; Boehm-,B; Wojtusciszyn-,A; Sauter-,N; Donath-,M; Marchetti-,P; Maedler-,K; Benoit Raymond Gauthier. The diabetes-linked transcription factor Pax4 is expressed in human pancreatic islets and is activated by mitogens and GLP-1.HUM MOL GENET. 17, pp. 478 - 489. 2008.
Type of production: Scientific paper
Format: Journal
Corresponding author: Yes



- 39** Benoit Raymond Gauthier; Duhamel-,D; Iezzi-,M.B.; Theander-,S; Salter-,F; Fukuda-,M; Wehler-Haller-,B; Wollheim-, C.B. The synaptotagmin VII splice variants alpha, beta and delta are expressed in pancreatic beta cell and regulate insulin exocytosis. *FASEB J.* 22, pp. 194 - 206. 2008. ISSN 0892-6638
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 7.049
- 40** Benoit Raymond Gauthier; Gosmain-,Y; Mamin-,A; Philippe-,J. The beta cell specific transcription factor NKX6.1 inhibits glucagon gene transcription by interfering with Pax6. *Biochem. J.* 403, pp. 593 - 601. 2007. ISSN 1932-6203
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.009
- 41** Schumann-,D; Maedler-,K; Franklin-,I; Konrad-,D; Storling-,J; Boni-Schnetzler-,M; Gjinovci-,A; Kurrer-,M.O; Benoit Raymond Gauthier; Bosco-,D; Andres-,A.; Berney-,T; Greter-,M; Becher-,B; Chervonsky-,A.V; Halban-,P; Mandrup-Poulsen-,T; Wollheim-, C.B.; Donath-,M. The fas pathway is involved in beta cell secretory function. *P NATL ACAD SCI USA.* 104, pp. 2861 - 2866. 2007.
Type of production: Scientific paper **Format:** Journal
- 42** Brun-,T; Duhamel-,D; Hu He-, K.H.; Wollheim-, C.B.; Benoit Raymond Gauthier. The transcription factor Pax4 acts as a survival gene in Ins-1e insulinoma cells. *Oncogene.* 26, pp. 4261 - 4271. 2007.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 6.440
- 43** Glauser-,D; Brun-,T; Benoit Raymond Gauthier; Schlegel-,W. Transcriptional response of pancreatic beta cells to metabolic stimulation: large scale identification of immediate-early and secondary response genes. *BMC mol. biol.* 8, pp. 54 - 69. 2007.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.371
- 44** Corcelle-, V; Stieger-,B; Gjinovci-,A; Wollheim-, C.B.; Benoit Raymond Gauthier. Characterization of two distinct liver progenitor cell subpopulations of haematopoietic and hepatic origins. *Exp. cell res.* 312, pp. 2826 - 2836. 2006.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.777
- 45** Zarei-,S; Freiden-,M; Rubi-,B; Villemin-,P; Benoit Raymond Gauthier; Maechler-,P; Vischer-,U.M. Dopamine modulates von Willebrand factor secretion in endothelial cells via D2-D4 receptors. *J. thromb. haemost.* 4, pp. 1588 - 1595. 2006.
Type of production: Scientific paper
- 46** Maedler-,K; Schumann-,D; Sauter-,N; Elligsgaard-,H; Bosco-,D; Baertschiger-,R; Iwakura-,Y; Oberholzer-,J; Benoit Raymond Gauthier; Donath-,M. Low concentration of Il-1beta induces flip-mediated beta cell proliferation in human pancreatic islets. *Diabetes.* 55, pp. 2713 - 2722. 2006. ISSN 0012-1797



- 54** Brun-,T; Franklin-,I; St-Onge-,L; Biason-Lauber-,L; Schoenle-,E.J.; Wollheim-, C.B.; Benoit Raymond Gauthier. The diabetes-linked transcription factor Pax4 stimulates pancreatic islet beta-cell proliferation.J. cell biol.167, pp. 1123 - 1135. 2004.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 11.602
- 55** Ritz-Laser-,B; Benoit Raymond Gauthier; Estreicher-,A; Mamin-,A; Brun-,T; Salmon-,P; Halban-,P; Trono-,D; Philippe-,J. Ectopic expression of the beta-cell specific transcription factor Pdx1 inhibits glucagon gene transcription.Diabetologia. 46, pp. 810 - 821. 2003.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5.689
- 56** Wang-,H; Hagenfeldt-Johansson-,K.A.; Otten-,L.A.; Benoit Raymond Gauthier; Herrera-,P.L.; Wollheim-, C.B.Experimental models of transcription factor-associated maturity onset diabetes of the young.Diabetes. 51, pp. S333 - S342. 2002.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 8.256
- 57** Wang-,H; Benoit Raymond Gauthier; Hagenfeldt-,K.A.; Iezzi-,M.B.; Wollheim-, C.B.Foxa2 (HNF3beta) controls multiple genes implicated in metabolism-secretion coupling of glucose-induced insulin release.J. biol. chem.277, pp. 17564 - 17570. 2002. ISSN 0021-9258
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 6.696
- 58** Benoit Raymond Gauthier; Schwitzgebel-,V; Zaiko-,M; Mamin-,A; Ritz-Laser-,B; Philippe-,J. Hepatic nuclear factor-3 (HNF-3 or Foxa2) regulates glucagon gene transcription by binding to the G1 and G2 promoter elements.Mol. endocrinol.16, pp. 170 - 183. 2002. ISSN 0888-8809
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 6.623
- 59** Ritz-Laser-,B; Estreicher-,A; Benoit Raymond Gauthier; Edlund-,E; Philippe-,J. The pancreatic beta-cell-specific transcription factor Pax-4 inhibits glucagon gene through Pax-6.Diabetologia. 45, pp. 97 - 107. 2002.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5.136
- 60** Ritz-Laser-,B; Estreicher-,A; Benoit Raymond Gauthier; Philippe-,J. The paired-homeodomain transcription factor Pax-2 is expressed in the endocrine pancreas and transactivates the glucagon gene promoter.J. biol. chem.275, pp. 32708 - 32715. 2000.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 7.368



- 61** Benoit Raymond Gauthier; Robb-,M.; Mcpherson-,R. Cholesteryl ester transfer protein gene expression during differentiation of human preadipocytes to adipocytes in primary culture. *Atherosclerosis (Berl.)*. 142, pp. 301 - 307. 1999.
Type of production: Scientific paper
- 62** Benoit Raymond Gauthier; Robb-,M.; Gaudet-,F.; Ginsburg-,G.; Mcpherson-,R. characterization of a cholesterol response element (cre) in the promoter of the cholesteryl ester transfer protein gene: functional role of the transcription factors srebp-1a, -2 and yy1. *J. lipid res.*40, pp. 1284 - 1293. 1999.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.394
- 63** Benoit Raymond Gauthier. Characterization of a novel liver-specific protein/DNA binding site in the human HMG CoA reductase promoter. *Biochem. biophys. res. commun.* 247, pp. 280 - 286. 1998.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.780
- 64** Braschi-,S.; Couture-,N.; Gambarotta-,A.; Benoit Raymond Gauthier; Coffill-,C.R.; Sparks-,D.L.; Maeda-,N.; Schultz-,J.R. Hepatic lipase affects both HDL and Apob-containing lipoprotein levels in mouse. *Biochim. biophys. acta L Lipids lipid metab.*1392, pp. 276 - 290. 1998.
Type of production: Scientific paper
- 65** Benoit Gauthier. Diabetes Mellitus tipo 1 y tipo 2 ¿Comparten un origen común?. *Diabetes*. 22, pp. 46 - 47. Sociedad Española de Diabetes, 10/2013.
Type of production: Popular science article **Format:** Journal
Corresponding author: Yes
- 66** Petra Lorenzo; Nadia Cobo Vuilleumier; Benoit Gauthier. Obesidad y diabetes: Una mala combinación. *Diabetes*. 22, pp. 26 - 27. Franz Martin Bermudo, 07/2013.
Type of production: Popular science article **Format:** Journal
Corresponding author: Yes
- 67** Benoit Raymond Gauthier. Les cellules souches et le diabète: espoir de traitement pour les diabétiques insulino-dépendant ?. *D JOURNAL*. pp. 14 - 15. 2004.
Type of production: Popular science article **Format:** Journal
- 68** Benoit Raymond Gauthier. Les cellules souches et le traitement du diabète : mythe ou réalité ?. *D JOURNAL*. pp. 10 - 11. 2003.
Type of production: Popular science article **Format:** Journal
- 69** Manuel Carrasco; Anabel Rojas; Irene Delgado; Nadia Cobo Vuilleumier; Juan Tejedo; Francisco J. Bedoya; Benoit Gauthier; Bernat Soria. Regulation of Pancreatic Islet Formation. *Islets of Langerhans*. pp. 109 - 128. M.S. Islam, 2015.
Type of production: Book chapter **Format:** Journal
Corresponding author: No
- 70** Abdelkrim Hmadcha; Alejandro Martin Montalvo; Benoit R Gauthier; Bernat Soria; Vivian Capilla Gonzalez. Therapeutic Potential of Mesenchymal Stem Cells for Cancer Therapy. *Front. Bioeng. Biotechnol.*Frontiers, 05/02/2020.



Type of production: Review
Corresponding author: No
Impact source: SCOPUS

Format: Journal

Impact index in year of publication: 5,12
Position of publication: 10

Category: Science Edition - MULTIDISCIPLINARY SCIENCES
Journal in the top 25%: Yes
No. of journals in the cat.: 69

- 71** Nadia Cobo Vuilleumier; Bneoit Gauthier. Time for a Paradigm Shift in Treating Type 1 Diabetes Mellitus: Coupling Inflammation to Islet Regeneration. Metabolism; Clinical and Experimental. online, Elsevier, 02/01/2020.

Type of production: Review
Corresponding author: Yes

Impact source: SCOPUS
Impact index in year of publication: 6,5
Position of publication: 13

Category: Endocrinology, Diabetes and Metabolism
Journal in the top 25%: Yes
No. of journals in the cat.: 211

Works submitted to national or international conferences

- 1** **Title of the work:** Assessment of a Novel SV40 Viral Vector System to Induce Insulin-Mediated Immune Tolerance in a Mouse Model of Type 1 Diabetes Mellitus

Name of the conference: Sociedad Español de Diabetes

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 05/04/2017

End date: 07/04/2017

Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups
I. Herrera Gomez; R. Camacho Garcia; I. Mancini; M. Odijk; P. De Haan; M.G. Toscano; B.R. Gauthier.

- 2** **Title of the work:** Levothyroxine blunts the onset of experimental type 1 diabetes mellitus in mice

Name of the conference: Sociedad Español de Diabetes

Corresponding author: No

City of event: Barcelona, Catalonia, Spain

Date of event: 05/04/2017

End date: 07/04/2017

Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups
L. Lopez Noriega; N. Cobo Vuilleumier; A.J. Narbona Pérez; J.L. Araujo Garrido; P.I. Lorenzo; B.R. Gauthier; A. Martin Montalvo.

- 3** **Title of the work:** Targeting inflammation in the pancreatic islet to promote immune-regeneration

Name of the conference: Sociedad Español de Diabetes

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 05/04/2017

End date: 07/04/2017

Organising entity: Sociedad Español de Diabetes

- 4** **Title of the work:** The diabetes-link factor HMG20A maintains islet beta cell metabolic maturity

Name of the conference: European Association for the Study of Diabetes

Corresponding author: Yes

City of event: Munich, Germany



Date of event: 13/09/2016

End date: 16/09/2016

Organising entity: European Association for the Study of Diabetes

J.M. Mellado Gil; E. Fuente Martin; P.I. Lorenzo; F.J. Bermudez Silva; G. Rojo Martinez; Y. Romero Zerbo; C. Campos Caro; M. Aguilar Diosdado; B.R. Gauthier.

5 Title of the work: The LRH1 Agonist BL001 Simultaneously Targets Immune and Islet Cells to Repress Type 1 Diabetes

Name of the conference: American Diabetes Association

Corresponding author: Yes

City of event: New Orleans, United States of America

Date of event: 10/06/2016

Organising entity: American Diabetes Association **Type of entity:** Associations and Groups

Christian Lachaud; Nadia Cobo Vuilleumier; Petra Lorenzo; Esther Fuente Martin; Alejandro Martin Montalvo; Noelia Garcia Rodriguez; Katja Stifter; Sergie Navarro; Monica Courtney; Maria Jose Quintero Carrasco; David Pozo; Patrick Collombat; R. Schirmbeck; Bernat Soria; Luc St-Onge; Benoit Gauthier.

6 Title of the work: The diabetes-linked factor HMG20A is expressed in astrocytes and modulates glucose-derived lactate secretion

Name of the conference: Sociedad Español de Diabetes

Corresponding author: Yes

City of event: Bilbao, Basque Country, Spain

Date of event: 21/04/2016

End date: 22/04/2016

Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups

City organizing entity: Madrid, Community of Madrid, Spain

Esther Fuente Martin; José Manuel Mellado Gil; Javier Francisco Bermúdez Silva; José Carlos Reyes; Benoit Gauthier.

7 Title of the work: The diabetes-linked factor HMG20A targets islet genes involved in insulin secretion

Name of the conference: Sociedad Español de Diabetes

Corresponding author: Yes

City of event: Bilbao, Basque Country, Spain

Date of event: 21/04/2016

End date: 22/04/2016

Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups

City organizing entity: madrid, Community of Madrid, Spain

José Manuel Mellado Gil; Esther Fuente Martin; José Carlos Reyes; Javier Francisco Bermúdez Silva; Manuel Aguilar Diosdado; Benoit Gauthier.

8 Title of the work: The synthetic cannabinoids ABN-CBD and LH-21 ameliorates inflammation status and anxiety in diet-induced diabetic mice

Name of the conference: Sociedad Español de Diabetes

Corresponding author: No

City of event: Bilbao, Community of Madrid, Spain

Date of event: 21/04/2016

End date: 22/04/2016

Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups

City organizing entity: Madrid, Community of Madrid, Spain

Javier Francisco Bermúdez Silva; V. Espinosa Jimenez; Nadia Cobo Vuilleumier; Benoit Gauthier; Gemma Rojo Martinez; F.J. Tinahones; Yanina Romero Zerbo.



- 9** **Title of the work:** Understanding the effects of Thyroxine supplementation to explore novel venues for the treatment of Type 2 diabetes mellitus
Name of the conference: Sociedad Español de Diabetes
Corresponding author: No
City of event: Bilboa, Basque Country, Spain
Date of event: 21/04/2016
End date: 22/04/2016
Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Livia Noriega Lopez; Angela Narbona Pérez; Benoit Gauthier.
- 10** **Title of the work:** Agonist-mediated activation of LRH-1 blunts development of hyperglycemia in the RIP-B7.1 mouse model of experimental autoimmune diabetes without adverse effects.
Name of the conference: Immunology of Diabetes Society
Corresponding author: Yes
City of event: Munich, Germany
Date of event: 04/2015
Organising entity: Immunology of Diabetes Society **Type of entity:** Associations and Groups
City organizing entity: Lund, Sweden
Nadia Cobo Vuilleumier; Esther Fuente Martin; Marta Cejudo Guillén; S López; Noelia Garcia Rodriguez; Petra Lorenzo; David Pozo; Benoit Gauthier.
- 11** **Title of the work:** Quantifying the Functional β -cell mass in Health and Disease: Do We Have a Clear Picture Yet?
Name of the conference: Sociedad Español de Diabetes
Corresponding author: Yes
City of event: Valencia, Valencian Community, Spain
Date of event: 04/2015
Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
- 12** **Title of the work:** Umbilical cord mesenchymal stem cells block inflammatory and immune responses in a mouse model of autoimmune diabetes mellitus
Name of the conference: Immunology of Diabetes Society
Corresponding author: No
City of event: Munich, Germany
Date of event: 04/2015
Organising entity: Immunology of Diabetes Society **Type of entity:** Associations and Groups
City organizing entity: Lund, Sweden
Esther Fuente Martin; Nadia Cobo Vuilleumier; Christian Lachaud; A Hmadcha; Benoit Gauthier; Bernatq Soria.
- 13** **Title of the work:** Pax4 Expression Defines an Islet beta-cell Subpopulation Prone to Expansion During Pregnancy
Name of the conference: American Diabetes Association
Corresponding author: Yes
City of event: san Francisco, United States of America
Date of event: 13/06/2014
Organising entity: American Diabetes Association (ADA)
Lorenzo, PI; Jiménez-Moreno, CM; Delgado, I; Rojas, A; Soria, B; Gauthier, BR. "Pax4 Expression Defines an Islet beta-cell Subpopulation Prone to Expansion During Pregnancy".



- 14** **Title of the work:** The LRH-1 agonist BL001 improves human islet survival and blunts development of hyperglycemia in the RIP-B7.1 mice model of experimental autoimmune diabetes
Name of the conference: European Association for the Study of Diabetes
Corresponding author: Yes
City of event: Barcelona, Catalonia, Spain
Date of event: 21/09/2013
End date: 25/06/2013
Organising entity: European Association for the Study of Diabetes **Type of entity:** Associations and Groups
City organizing entity: Dusseldorf, Germany
Bernhard Boehm; Nadia Cobo Vuilleumier; Mathurin Baquié; Marco Bugliani; Domenico Bosco; G Parnaud; M Cejudo Guillén; Andres Spyrrantis; Piero Marchetti; David Pozo; Luc St-Onge; Benoit Gauthier. "Diabetologia".
- 15** **Title of the work:** Lineage-tracing studies reveal confinement of Pax4 expression to a proliferation prone β -cell subpopulation in adult mice islets
Name of the conference: European Association for the Study of Diabetes- Islet study group
Corresponding author: Yes
City of event: Stitges, Catalonia, Spain
Date of event: 10/09/2013
Organising entity: European Association for the Study of Diabetes **Type of entity:** Association
City organizing entity: Düsseldorf, Germany
Petra Lorenzo; Irene Delgado; Thierry Brun; Anabel Rojas; Benoit Gauthier.
- 16** **Title of the work:** Pax4 expression maintains the β -cell mass in a mouse model of experimental autoimmune diabetes.
Name of the conference: American Diabetes Association
Corresponding author: Yes
City of event: Chicago, United States of America
Date of event: 21/06/2013
End date: 25/06/2013
Organising entity: American Diabetes Association **Type of entity:** Associations and Groups
1; Anabel Alvarez Mercado; José Manuel Mellado Gill; Carmen Jimenez Moreno; Nadia Cobo Vuilleumier; Andreas Spyrrantis; Jorge Vallejo Ortega; Petra Lorenzo; Paolo Meda; Bernhard Boehm; Benoit Gauthier. "Diabetes".
- 17** **Title of the work:** Adipobiología: Gluco Lipo Toxicidad de los islotes pancreáticos
Name of the conference: Diabetesidad
Corresponding author: Yes
City of event: Valencia, Valencian Community, Spain
Date of event: 10/2012
Organising entity: Sociedad Español de Diabetes **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
- 18** **Title of the work:** Pregnancy hormones induce expression of the transcription factor Pax8 in a subpopulation of islet cells
Name of the conference: XXIII Congreso Anual de la Sociedad Español de Diabetes
Type of event: Conference
Corresponding author: Yes
City of event: Vigo, Spain
Date of event: 04/2012



Organising entity: Sociedad Española de Diabetes **Type of entity:** Associations and Groups

City organizing entity: Madrid, Community of Madrid, Spain

Carmen María Jimenez Moreno; Irene Delgado Sainz; Nadia Cobo Vuilleumier; Bosco, Domenico; Ana Isabel Rojas González; Petra Isabel Lorenzo; Benoit Raymond Gauthier.

- 19** **Title of the work:** Liver receptor homolog 1 (LRH-1) as a novel anti-diabetic drug target
Name of the conference: Workshops on Current Trends in Biomedicine: Liver and Pancreas, from Development to Disease
Type of event: Conference
Corresponding author: Yes
City of event: Baeza, Andalusia, Spain
Date of event: 11/2011
Organising entity: Universidad Internacional de Andalucía (UNIA) **Type of entity:** University
City organizing entity: seville, Andalusia, Spain
Benoit Raymond Gauthier.

- 20** **Title of the work:** Role of gene-environment interactions in pancreatic islet survival and glucose homeostasis
Name of the conference: XIV Brazilian Congress of Obesity and Metabolic Syndrome
Type of event: Conference
Corresponding author: Yes
City of event: Sao Paulo, Brazil
Date of event: 10/2011
Benoit Raymond Gauthier.

- 21** **Title of the work:** Pax4, a selfish gene attuning beta cell mass to environmental cues
Name of the conference: Beta Cell Workshop
Type of event: Conference
City of event: Helsingor, Denmark
Date of event: 21/09/2011
End date: 23/09/2011
Benoit Raymond Gauthier.

- 22** **Title of the work:** The novel naturally occurring activating glucokinase gene mutation E442k maintains Ins-1 α cell proliferation and protects against glucose-induced apoptosis.
Name of the conference: European Association for the Study of Diabetes
Type of event: Conference **Geographical area:** Non EU International
City of event: Estocolmo, Sweden
Date of event: 09/2010
Organising entity: European Association for the Study of Diabetes **Type of entity:** Associations and Groups
City organizing entity: Dusserdolf, Germany
Antonio Luis Cuesta Muñoz; Nadia Cobo Vuilleumier; Raquel Araujo Legido; Rodriguez-bada, P; Gavito, A; Elena Baixeras Llano; Francisco Martín Bermudo; Dr; Dr; Benoit Raymond Gauthier.

- 23** **Title of the work:** GLP-1 and islet physiology: Impact on beta cell proliferation and survival
Name of the conference: Brazilian Congress of Endocrinology and Metabolism
Corresponding author: Yes
City of event: Gramado, Brazil
Date of event: 08/2010
Benoit Gauthier.



- 24** **Title of the work:** Protection against glucose-induced apoptosis and maintenance of Ins-1e cell proliferation in cells harbouring the naturally occurring activating glucokinase gene mutation GCK-E442K
Name of the conference: American Diabetes Association
Type of event: Conference **Geographical area:** Non EU International
City of event: Orlando, United States of America
Date of event: 06/2010
Organising entity: American Diabetes Association **Type of entity:** Associations and Groups
Nadia Cobo Vuilleumier; Araujo, R; Pablo Jesús Rodríguez Bada; Gavito, A; Elena Baixeras Llano; Francisco Martín Bermudo; Bedoya, F; Bernad, A; Benoit Raymond Gauthier; Antonio Luis Cuesta Muñoz.
- 25** **Title of the work:** Conditional overexpression of Pax4 in pancreatic beta cells protects mice from developing streptozotocin-induced diabetes
Name of the conference: European Association for the Study of Diabetes
Type of event: Conference **Geographical area:** Non EU International
Corresponding author: Yes
City of event: Vienna, Austria
Date of event: 09/2009
Organising entity: European Association for the Study of Diabetes **Type of entity:** Associations and Groups
City organizing entity: Dusseldorf, Germany
Hu He-, K.H.; Aeberhard-,D; Meda-, P; Benoit Raymond Gauthier. "Conditional overexpression of Pax4 in pancreatic beta cells protects mice from developing streptozotocin-induced diabetes". En: Diabetología. pp. PS019 - PS019.
- 26** **Title of the work:** Atypical endoplasmic reticulum (ER) stress in cell and animal models of MODY3
Name of the conference: European Association for the Study of Diabetes
Type of event: Conference
City of event: Rome, Italy
Date of event: 09/2008
Organising entity: European Association for the Study of Diabetes **Type of entity:** Associations and Groups
City organizing entity: Dusseldorf, Germany
Kirkpatrick-,C; Baquie-,M; Wang-,H; Benoit Raymond Gauthier; Wollheim-, C.B."Diabetologia". En: Diabetologia. pp. S104 - S104.

Other dissemination activities

- 1** **Title of the work:** El buen uso de los antibióticos en el embarazo
Name of the event: Salud al día
Type of event: Media interviews
City of event: Sevilla, 15/11/2015, Spain
Date of event: 15/11/2015
Organising entity: Canal Sur radio y television **Type of entity:** Business
City organizing entity: Sevilla, Andalusia, Spain
"http://alacarta.canalsur.es/television/video/el-buen-uso-de-los-antibioticos-en-el-embarazo/1841350/33". Available on-line at: <<http://alacarta.canalsur.es/television/video/el-buen-uso-de-los-antibioticos-en-el-embarazo/1841350/33>>.



- 2** **Title of the work:** La cruzada de la I+D andaluza contra la diabetes logra el apoyo de la principal fundación de EEUU
Name of the event: Historias de Luz
City of event: Sevilla, 17/09/2013, Spain
Date of event: 17/09/2013
Organising entity: Historias de Luz **Type of entity:** Business
"http://www.historiasdeluz.es/?x=0&y=0&s=gauthier". Available on-line at:
<http://www.historiasdeluz.es/?x=0&y=0&s=gauthier>.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Local scientific organizing committee
Affiliation entity: SOCIEDAD ESPAÑOLA DE DIABETES
City affiliation entity: Spain
Start date: 22/04/2018
- 2** **Committee title:** Chairman of Scientific review committee
Affiliation entity: Juvenile Diabetes Research Foundation
City affiliation entity: New York, United States of America
Start date: 20/12/2015
- 3** **Committee title:** Editorial Board member
Affiliation entity: Scientific Reports
City affiliation entity: United Kingdom
Start date: 01/09/2015
- 4** **Committee title:** Editorial Board member
City: New York, United States of America
Affiliation entity: Scientifica
Start date: 28/03/2010

Organization of R&D activities

Title of the activity: Department of Stem Cells: From DNA repair to human therapies
Type of activity: Scientific meeting **Geographical area:** Regional
Convening entity: Centro Andaluz de Biología Molecular y Medicina Regenerativa **Type of entity:** Public Research Body
City convening entity: Sevilla, Andalusia, Spain
Start date: 2013



R&D management

- 1 Name of the activity:** Co-founder
Type of management: Co-founder
Entity: ARIDDAD Therapeutics S.L.
Start date: 06/12/2016
- 2 Name of the activity:** Board Member
Type of management: Management of body
Entity: Centro Andaluz de Biología Molecular y Medicina Regenerativa
Start date: 05/09/2010
Type of entity: Public Research Body
Duration: 4 years

Evaluation and revision of R&D projects and articles

- 1 Performed tasks:** Evaluador
Entity where activity was carried out: Sociedad Española de Diabetes
City of entity: Madrid, Spain
Start date: 09/01/2017
Type of entity: Associations and Groups
- 2 Performed tasks:** Evaluador
Entity where activity was carried out: European Research Council (ERC)
Start date: 13/04/2016
Type of entity: Public Research Body
- 3 Name of the activity:** Consejería de Salud y Bienestar Social
Performed tasks: Evaluador
Entity where activity was carried out: Consejería de Salud. Junta de Andalucía
Start date: 30/10/2012
- 4 Name of the activity:** Evaluador de proyectos de investigación I+D+I del Ministerio de Ciencia e Innovación. Agencia Nacional de Evaluación y Prospectiva (ANEP)
Performed tasks: Evaluador
Entity where activity was carried out: Agencia Nacional de Evaluación y Prospectiva
City of entity: Spain
Start date: 01/10/2012
Type of entity: Others
- 5 Name of the activity:** Juvenile Diabetes Research Foundation
Performed tasks: Evaluador
Entity where activity was carried out: Juvenile Diabetes Research Foundation
Start date: 12/11/2007
Type of entity: Foundation



Other achievements

Obtained grants and scholarships

1 **Name of the grant:** Juan de la Cierva Incorporacion

Aims: Post-doctoral

Awarding entity: Ministerio de Economía y Competitividad

Type of entity: State agency

Conferral date: 06/2017

Duration: 2 years

End date: 06/2019

Entity where activity was carried out: Centro Andaluz de Biología Molecular y Medicina Regenerativa

2 **Name of the grant:** Juan de la Cierva

Aims: Post-doctoral

Awarding entity: Ministerio de Economía y Competitividad

Type of entity: State agency

Conferral date: 01/2014

Duration: 3 years

End date: 12/2016

Entity where activity was carried out: Centro Andaluz de Biología Molecular y Medicina Regenerativa

3 **Name of the grant:** Miguel Servet del Instituto de Salud Carlos III

Aims: Post-doctoral

Awarding entity: Ministerio de Economía y Competitividad

Type of entity: State agency

Conferral date: 01/2014

Duration: 5 years

Entity where activity was carried out: Centro Andaluz de Biología Molecular y Medicina Regenerativa

Prizes, mentions and distinctions

1 **Description:** Premio publico CanalSur Conecta

Awarding entity: CanalSur

City awarding entity: Sevilla, Spain

Conferral date: 14/03/2019

2 **Description:** Premio Salud Investiga-Modalidad Investigación de Vanguardia

Awarding entity: Junta de Andalucía

Type of entity: gobierno

City awarding entity: sevilla, Andalusia, Spain

Conferral date: 11/2015

3 **Description:** Denber-Pinard Award for Scientific Achievement

Awarding entity: University of Geneva

Type of entity: University

City awarding entity: Ginebra, Switzerland

Conferral date: 06/2008