



**CARLOS MANUEL
GONZÁLEZ CASIMIRO**

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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.

Carlos Manuel González Casimiro graduated as Medical Doctor in July 2012 at the Havana University of Medical Sciences (UCM-H), Cuba; with excellent academic results (original grade 5.91 out of a maximum of 5).

He then accessed by opposition to the Specialty in Clinical Biochemistry under Medical Residency in the Institute of Basic and Preclinical Sciences "Victoria de Girón", entity adhered to the UCM-H; where he graduated as a First-Degree Specialist in Clinical Biochemistry in October 2016. There, he worked in a research team led by Dr. Sonia Clapés in the study of Diabetes Mellitus and its effect on pregnancy, in an animal model of Wistar rats. In addition, his Residency Final Project focused on the theoretical-computational study, from an evolutionary point of view, of retinal proteins and the relationship of these with the photoinduced generation of singlet oxygen; under the direction of Dr. Erix W. Hernández.

In an international opposition, he was awarded with a scholarship for Master's studies in Spain, granted by the Spanish Agency for International Cooperation for Development (AECID). Incorporated in November 2016 to the Master's program in Biomedical Research of the University of Valladolid, he successfully completed his Master's studies in September 2017 with the defense of his Master's Final Project (TFM), which focused on the effect of glucose on the proliferation of arterial smooth muscle cells, this research was supervised by Dr. Pilar Ciudad and Dr. Irene Cozar-Castellano.

He then started to work on his Doctoral Thesis project related to liver contribution to Diabetes Mellitus pathophysiology. His PhD project was supervised by Dr. Irene Cozar-Castellano and Dr. German Perdomo at the University of Valladolid. In 2018, he was awarded with a four-year predoctoral contract by the Junta de Castilla y León and the European Social Fund for his PhD research. In November 2022 he defended his Doctoral Thesis titled "Hepatic insulin-degrading enzyme regulation and its role on glucagon signaling" with outstanding results.

**CARLOS MANUEL GONZÁLEZ CASIMIRO**

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ScopusID: **57219254332**
ResearcherID: **F-3976-2018**
IraLIS ID: **ESBMED1189**
Gender: **Male**
Nationality: **Spain**
Contact aut. region/reg.: **Castile and León**
Personal web page: **<https://www.linkedin.com/in/carlos-manuel-gonz%C3%A1lez-casimiro-b05a46134/>**

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Valladolid	Predoctoral Researcher	18/07/2018
2	Universidad de Valladolid	Investigador Iniciado	04/05/2018
3	Universidad de Ciencias Médicas de La Habana	Médico Residente en Bioquímica Clínica	01/09/2012

- 1** **Employing entity:** Universidad de Valladolid **Type of entity:** University
Department: Facultad de Medicina, Intituto de Biología y Genética Molecular
City employing entity: Valladolid, Castile and León, Spain
Professional category: Predoctoral Researcher **Educational Management (Yes/No):** No
Start-End date: 18/07/2018 - 07/11/2022 **Duration:** 4 years - 3 months - 19 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 240300 - Biochemistry; 241108 - Human metabolisms; 241500 - Molecular biology
Identify key words: Molecular mechanism of disease; Laboratoy animals; Cell culture; Molecular, cellular and genetic biology
Field of management activity: University
- 2** **Employing entity:** Universidad de Valladolid **Type of entity:** University
Professional category: Investigador Iniciado
Start-End date: 04/05/2018 - 17/07/2018 **Duration:** 2 months - 14 days
- 3** **Employing entity:** Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Professional category: Médico Residente en Bioquímica Clínica
Start-End date: 01/09/2012 - 31/10/2016 **Duration:** 4 years - 2 months



Education

University education

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

- 1** **University degree:** Formal capacity to work with experimental animals
Name of qualification: Categories B and C for working with laboratory animals
Degree awarding entity: Community of Madrid **Type of entity:** State agency
Date of qualification: 15/06/2018
- 2** **University degree:** Higher degree
Name of qualification: Máster en Investigación Biomédica
Degree awarding entity: Universidad de Valladolid **Type of entity:** University
Date of qualification: 20/09/2017
- 3** **University degree:** Higher degree
Name of qualification: Médico Especialista en Bioquímica Clínica
Degree awarding entity: Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Date of qualification: 17/10/2016
- 4** **University degree:** Higher degree
Name of qualification: Grado en Medicina
Degree awarding entity: Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Date of qualification: 10/07/2012

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Investigación Biomédica
Degree awarding entity: Universidad de Valladolid **Type of entity:** University
Date of degree: 29/11/2022

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	C1	B1	B1	B2



Teaching experience

General teaching experience

- 1 Name of the course:** Investigación Biomédica y Nuevas Tecnologías
University degree: Graduado o Graduada en Medicina
Start date: 15/02/2019 **End date:** 27/05/2019
Entity: Universidad de Valladolid **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 2 Name of the course:** Biología Celular y Molecular
University degree: Estomatología
Start date: 01/09/2014 **End date:** 31/10/2016
Entity: Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Faculty, institute or centre: Instituto de Ciencias Básicas y Preclínicas "Victoria de Girón"
- 3 Name of the course:** Biología Molecular y Celular
University degree: Medicina
Start date: 01/09/2014 **End date:** 31/10/2016
Entity: Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Faculty, institute or centre: Instituto de Ciencias Básicas y Preclínicas "Victoria de Girón"
- 4 Name of the course:** Metabolismo
University degree: Estomatología
Start date: 01/09/2014 **End date:** 31/10/2016
Entity: Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Faculty, institute or centre: Instituto de Ciencias Básicas y Preclínicas "Victoria de Girón"
- 5 Name of the course:** Metabolismo Intermediario y su Regulación
University degree: Medicina
Start date: 01/09/2014 **End date:** 31/10/2016
Entity: Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Faculty, institute or centre: Instituto de Ciencias Básicas y Preclínicas "Victoria de Girón"

Healthcare experience

Co-operation healthcare experience in developing countries

Relevant results: Medical Internship and Residency
Entity: Universidad de Ciencias Médicas de La Habana **Type of entity:** University
Start-End date: 01/09/2011 - 31/10/2016



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:** PAPEL DE IDE EN EL ACLARAMIENTO Y LA ACCION DE LA INSULINA EN EL HIGADO
Entity where project took place: INSTITUTO DE BIOLOGIA Y GENETICA MOLECULAR (IBGM)
City of entity: Valladolid, Castile and León, Spain
Nº of researchers: 7
Start-End date: 01/06/2020 - 01/06/2023
Total amount: 108.900 €
- 2** **Name of the project:** CONTRATO PREDOCTORAL JUNTA CASTILLA Y LEÓN DE CARLOS MANUEL GONZÁLEZ CASIMIRO: PAPEL DE LA INSULIN-DEGRADING ENZYME HEPÁTICA EN LA HIPERGLUCANEMIA
Entity where project took place: FACULTAD DE MEDICINA, INSTITUTO DE BIOLOGÍA Y GENÉTICA MOLECULAR
City of entity: Valladolid, Castile and León, Spain
Nº of researchers: 1
Start-End date: 18/07/2018 - 07/06/2022
Total amount: 76.140 €
- 3** **Name of the project:** PAPEL DE INSULIN DEGRADING ENZYME (IDE) EN LA HIPERGLUCAGONEMIA.
Entity where project took place: Universidad de Valladolid **Type of entity:** University
City of entity: Valladolid, Castile and León, Spain
Nº of researchers: 7
Funding entity or bodies: FONDOS FEDER, MINISTERIO DE ECONOMIA Y COMPETITIVIDAD **Type of entity:** Public Research Body
City funding entity: Spain
Start-End date: 30/12/2016 - 31/12/2020
Total amount: 169.400 €



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Altered Surface Expression of Insulin-Degrading Enzyme on Monocytes and Lymphocytes from COVID-19 Patients Both at Diagnosis and after Hospital Discharge. 2022.
Type of production: Scientific paper
- 2** Insulin-degrading enzyme ablation in mouse pancreatic alpha cells triggers cell proliferation, hyperplasia and glucagon secretion dysregulation. 2022.
Type of production: Scientific paper
- 3** Primary Cilia in Pancreatic β - and α -Cells: Time to Revisit the Role of Insulin-Degrading Enzyme. 2022.
Type of production: Scientific paper
- 4** Effects of Fasting and Feeding on Transcriptional and Posttranscriptional Regulation of Insulin-Degrading Enzyme in Mice. 2021.
Type of production: Scientific paper
- 5** Modulation of Insulin Sensitivity by Insulin-Degrading Enzyme. 2021.
Type of production: Scientific paper
- 6** Targeting Insulin-Degrading Enzyme in Insulin Clearance. 2021.
Type of production: Scientific paper
- 7** Hepatic insulin-degrading enzyme regulates glucose and insulin homeostasis in diet-induced obese mice.2020.
Type of production: Scientific paper

Works submitted to national or international conferences

- 1** **Title of the work:** Loss of insulin-degrading enzyme function leads to impaired glucagon signaling and enhanced mitochondrial respiration in hepatocytes
Name of the conference: 58th EASD Annual Meeting
Corresponding author: Yes
City of event: Stockholm, Stockholm, Sweden
Date of event: 19/09/2022
End date: 23/09/2022
Organising entity: European Association for the Study of Diabetes
Type of entity: Associations and Groups
City organizing entity: Hamburg, Hamburg, Germany
CARLOS MANUEL GONZÁLEZ CASIMIRO; JAIME SANTO DOMINGO; IRENE CÓZAR CASTELLANO; GERMAN PERDOMO. "Loss of insulin-degrading enzyme function leads to impaired glucagon signaling and enhanced mitochondrial respiration in hepatocytes".



- 2** **Title of the work:** Insulin and glucagon signaling regulation by insulin-degrading enzyme (IDE) in hepatocytes.
Name of the conference: VII International Conference IMFAHE Online International Innovation Camp “A Global Virtual Network of European Talent to promote excellence, innovation and internationalization of Higher Education”
Corresponding author: Yes
City of event: Online, Castile and León, Spain
Date of event: 2021
Organising entity: IMFAHE Fundation **Type of entity:** Associations and Groups
City organizing entity: California, United States of America
- 3** **Title of the work:** Insulin-degrading enzyme (IDE)-mediated regulation of insulin and glucagon signaling in hepatocytes
Name of the conference: 8th DZD Diabetes Research School
Corresponding author: Yes
City of event: Virtual Meeting,
Date of event: 29/09/2020
End date: 22/10/2020
Organising entity: German Center for Diabetes Research (DZD)
City organizing entity: Germany
Carlos M. González-Casimiro; German Perdomo.
- 4** **Title of the work:** Unraveling the role of the insulin-degrading enzyme (IDE) on hepatic insulin and glucagon signaling
Name of the conference: 11th Ciberdem Annual Meeting
Corresponding author: No
City of event: Online, Catalonia, Spain
Date of event: 2020
Organising entity: CIBER DEL AREA DE DIABETES Y ENFERMEDADES METABOLICAS (CIBERDEM)
City organizing entity: Barcelona, Catalonia, Spain
CARLOS MANUEL GONZÁLEZ CASIMIRO; BEATRIZ MERINO; JESÚS BALSINDE; IRENE CÓZAR CASTELLANO; GERMÁN PERDOMO.
- 5** **Title of the work:** Effect of high fat - high carbohydrate diet and nutritional status on Insulin-Degrading Enzyme expression
Name of the conference: 7th DZD Diabetes Research School
Corresponding author: No
City of event: Barcelona, Catalonia, Spain
Date of event: 14/09/2019
End date: 16/09/2019
Organising entity: German Center for Diabetes Research (DZD)
City organizing entity: Barcelona, Germany
Carlos Manuel González Cassimiro. "Effect of high fat - high carbohydrate diet and nutritional status on Insulin-Degrading Enzyme expression".
- 6** **Title of the work:** Computing Dioxygen Migration Pathways in Bovine Rhodopsin
Name of the conference: 11th Seminars of Advanced Studies on Molecular Design and Bioinformatics (SEADIM)
Corresponding author: No
City of event: Havana and Varadero, Cuba
Date of event: 10/07/2017



End date: 14/07/2017

Organising entity: Cuban Society of Chemistry

City organizing entity: Havana, Cuba

Erix Wiliam Hernández Rodríguez; Raidel Correa Aguila; Víctor Muñoz; Carlos Manuel González Casimiro; Elsa Sánchez García; Rachel Crespo Otero. "Computing Dioxygen Migration Pathways in Bovine Rhodopsin".

Other achievements

Stays in public or private R&D centres

Entity: Universidad Católica del Maule

City of entity: Maule, Chile

Start-End date: 20/09/2021 - 29/06/2022

Goals of the stay: Doctorate

Provable tasks: In silico modelization of IDE isoforms terciary structures