



MINISTERIO  
DE CIENCIA  
E INNOVACIÓN

## **Curriculum vitae Standardized form**

Total number of pages: **10**

Name: **María del Carmen González Montelongo**

Date: **07/07/2010**

- During the evaluation process, the applicant could be required to expand and justify the information here contained.

## PERSONAL DATA

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Family name: **González Montelongo**

Forename: **María del Carmen**

Date of birth : **08/08/1977**

Gender: **F**

Nationality: **Spanish**

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## PRESENT PROFESIONAL POSITION

Institution: **University of La Laguna**

Faculty, School or Institute: **Faculty of Biology**

Department: **Animal Biology**

Address: **Av. Astrofísico Fco. Sánchez s/n.**

City: **La Laguna** Postal Code: **38206**

Country: **Spain**

Telephone (indicate prefix, number and extension): **00 34 922 31 83 42**

Fax: **00 34 922 31 83 11**

E-mail: [mcmontel@ull.es](mailto:mcmontel@ull.es), [mcmontel@gmail.com](mailto:mcmontel@gmail.com), [mcmontel-ibis@us.es](mailto:mcmontel-ibis@us.es)

Field of study (UNESCO codes): **240113 Animal Physiology, 320990 Experimental Pharmacology, 249001 Neurophysiology**

Professional status: **Staff Researcher**

Start date: **01/03/07**

Administrative status

Permanent Staff holder

Hired on contracts

Acting

Fellowship

Others specify:

Full-time

Part-time

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## PRESENT RESEARCH AREA

*Brief summary (key words).*

Physiology, smooth muscle, intestinal contractile, vascular contractile, steroid hormones, androgens, classic and membrane, cell membrane, caveole, intracellular pathways, calcium sensitization, peroxidation, cell cultivation, neuronal cell lines, peroxidation,  $\beta$ -amyloide, neurodegeneration, Alzheimer.

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## ACADEMIC BACKGROUND

<i>Bachelor</i>	<i>Centre</i>	<i>Date</i>
Degree in Biology	La Laguna University	2000

<i>Ph.D.</i>	<i>Centre</i>	<i>Thesis Supervisor</i>	<i>Date</i>
Ph D. in Biology	La Laguna University	Dr. Mario Díaz González & Dra. Raquel Marín Cruzado	2009

Title: "Regulación aguda de la contractilidad intestinal inducida por andrógenos: Mecanismos celulares." (Acute regulation of intestinal contractility induced by androgens: cellular mechanisms) I.S.B.N.: 978-84-7756-891-9. Depósito Legal: Tf 1.494/2010

## PAST SCIENTIFIC EXPERIENCE

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<i>Position</i>	<i>R&amp;D Centre</i>	<i>Institution</i>	<i>Start date</i>	<i>End date</i>
PhD Fellowship RED CIEN	Department of Animal Biology	La Laguna University	2003	2004
PhD Fellowship RED CIEN	Department of Physiology	La Laguna University	2005	2006
Researcher	Department of Animal Biology	La Laguna University	2007	2009
Researcher	Department of Animal Biology	La Laguna University	2009	2010
Research	Institute of Biomedicine of Sevilla	Sevilla University	March 2011	actually

Language (R = regular, B = well, C = correctly)

Language	Speech	Read	Writes
Spanish	C	C	C
English	R	B	B

## PARTICIPATION IN RESEARCH PROJECTS

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**PROJECT TITLE:** REGULACIÓN DE CANALES DE CLORURO DE GRAN CONDUCTANCIA POR MODULADORES SELECTIVOS DE LOS RECEPTORES ESTROGÉNICOS.

**FINANCIAL ENTITY:** Ministerio de Ciencia y Tecnología.

**LENGHT** FROM: 2002 TO: 2004

**PRINCIPAL INVESTIGATOR:** Dr. D. Mario Díaz González

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**PROJECT TITLE:** CENTRO DE INVESTIGACIÓN EN ENFERMEDADES NEUROLÓGICAS (REDES TEMÁTICAS).

**FINANCIAL ENTITY:** Fondos de Investigación Sanitaria (FIS), Instituto de Salud Carlos III, Ministerio de Sanidad y Consumo.

**LENGHT** FROM: 2003 TO: 2005

**PRINCIPAL INVESTIGATOR:** Dr. D. Rafael Alonso Solís

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**PROJECT TITLE:** MECANISMOS DE ACCIÓN RÁPIDOS DE LOS ESTRÓGENOS Y LOS MODULADORES SELECTIVOS DE LOS RECEPTORES ESTROGÉNICOS.

**FINANCIAL ENTITY:** Vicerrectorado de Investigación. Universidad de La Laguna

**LENGHT** FROM: July 2005 TO: December 2005

**PRINCIPAL INVESTIGATOR:** Mario Díaz González

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**PROJECT TITLE:** APLICACIÓN DE NUEVOS DERIVADOS DEL TAMOXIFENO AL ESTUDIO DE LOS EFECTOS GENÓMICOS Y ALTERNATIVOS DE LOS ESTRÓGENOS.

**FINANCIAL ENTITY:** FIS

**LENGHT** FROM: 2005 TO: 2007

**PRINCIPAL INVESTIGATOR:** Dr. D. Mario Díaz González

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**PROJECT TITLE:** ESTUDIO DE LOS MECANISMOS DE NEUROPROTECCIÓN ANDROGÉNICA FRENTE A TOXICIDAD POR AMILOIDE EN CULTIVOS CORTICALES, HIPOCAMPALES Y SEPTALES DE RATÓN (I)

**FINANCIAL ENTITY:** Gobierno de Canarias

**LENGHT** FROM: March 2007 TO: March 2008

**PRINCIPAL INVESTIGATOR:** Mario Díaz González

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**PROJECT TITLE:** ESTUDIO DE LOS MECANISMOS DE NEUROPROTECCIÓN ANDROGÉNICA FRENTE A TOXICIDAD POR AMILOIDE EN CULTIVOS CORTICALES, HIPOCAMPALES Y SEPTALES DE RATÓN (II)

**FINANCIAL ENTITY:** Gobierno de Canarias

**LENGHT** FROM: March 2008 TO: March 2009

**PRINCIPAL INVESTIGATOR:** Mario Díaz González

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**PROJECT TITLE:** LÍPIDOS DE LA MEMBRANA NEURONAL COMO DIANAS DE LOS EFECTOS PROTECTORES DE ESTRÓGENOS Y ÁCIDOS GRASOS POLIINSATURADOS (PUFA), FRENTE AL ESTRÉS OXIDATIVO INDUCIDO POR PÉPTIDOS BETA AMILOIDEOS.

**FINANCIAL ENTITY:** MEC

**LENGHT** FROM: 2007 TO: 2010

**PRINCIPAL INVESTIGATOR:** Mario Díaz González

## PUBLICATIONS

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Indicate volume, first and last page (year) and Key.

Key: B= full book, CB.= chapter of book, A= article, R= review, E= editor

(\*) Those publications in process and not yet published, just specify publication status. (\*\*) Optionally specify the most important aspects of each publication to assess quality (e.g. journal impact index, journal position on lists of the corresponding fields, cites received or other repercussion indicators)

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*AUTHORS (in order of authorship):* González-Montelongo, M.C., Marín, R., Gómez, T., Díaz, M.

*TITLE:* Androgens differentially potentiate mouse intestinal smooth muscle by non-genomic activation of polyamine synthesis and Rho-kinase activation

*JOURNAL/BOOK TITLE:* Endocrinology 147(12):5715-5729

*KEY:* A

*DATE OF PUBLICATION (\*):* 2006

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*AUTHORS (in order of authorship):* C. M. Ramírez, González-Montelongo, M.C., Marrero-Alonso, J., González, M., Barreiro, M.L., Cabrera-Socorro, A., Díaz, M., Marín, R.

*TITLE:* Caracterización del receptor de estrógenos tipo alfa ( $\alpha$ ) asociado a la membrana plasmática de neuronas septales hipocámpales.

*JOURNAL/BOOK TITLE:* Revista de la Academia Canaria de Ciencias XVIII(4):9-19 *KEY:* A

*DATE OF PUBLICATION (\*):* 2006

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*AUTHORS (in order of authorship):* León, L.G., González-Montelongo, M.C., Ortega, N.

*TITLE:* Colino quinasa como nueva diana terapéutica en cáncer.

*JOURNAL/BOOK TITLE:* Biocáncer 3 (electronics) *KEY:* R

*DATE OF PUBLICATION (\*):* 2007

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*AUTHORS (in order of authorship):* Gonzalez-Montelongo, M.C., Ramirez, C.M., Marrero-Alonso, J., Marin, R., Fabelo, N., Martin, V., Gómez, T., Díaz, M.

*TITLE:* Regulación aguda de la musculatura lisa intestinal de ileón y colon de ratón por poliaminas

*JOURNAL/BOOK TITLE:* Revista de la Academia Canaria de Ciencias XIX(4):9-27 *KEY:* A

*DATE OF PUBLICATION (\*):* 2008

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*AUTHORS (in order of authorship):* González-Montelongo, M.C., Marín, R., Gómez, T. & Díaz, M.

*TITLE:* Androgens are powerful non-genomic inducers of calcium sensitization in visceral smooth muscle.

*JOURNAL/BOOK TITLE:* Steroids 75:533-538

*KEY:* A

*DATE OF PUBLICATION (\*):* 2010

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*AUTHORS (in order of authorship):* González-Montelongo, M.C., Marín, R., Gómez, T., Marrero-Alonso, J. & Díaz, M.

*TITLE:* Androgens induce non-genomic stimulation of colonic contractile activity through induction of calcium sensitization and phosphorylation of LC<sub>20</sub> and CPI-17.

*JOURNAL/BOOK TITLE:* Molecular Endocrinology 24(5):1007-1023 *KEY:* A

*DATE OF PUBLICATION (\*):* 2010

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**PARTICIPATION IN RESEARCH CONTRACTS OF SPECIAL RELEVANCE WITH COMPANIES  
AND/OR PRIVATE OR PUBLIC FUNDING BODIES**

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**TITLE:** ESTUDIO DE LOS MECANISMOS DE NEUROPROTECCIÓN ANDROGÉNICA FRENTE A TOXICIDAD POR AMILOIDE EN CULTIVOS CORTICALES, HIPOCAMPALES Y SEPTALES DE RATÓN

**FINANCIAL ENTITIES:** Consejería de Industria Gobierno de Canarias

**LENGHT** FROM: 03/07 TO: 03/08

**PRINCIPAL INVESTIGATOR:** Dr. Mario Díaz González

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**TITLE:** ESTUDIO DE LOS MECANISMOS DE NEUROPROTECCIÓN ANDROGÉNICA FRENTE A TOXICIDAD POR AMILOIDE EN CULTIVOS CORTICALES, HIPOCAMPALES Y SEPTALES DE RATÓN (RENOVACIÓN)

**FINANCIAL ENTITIES:** Consejería de Industria Gobierno de Canarias

**LENGHT** FROM: 03/08 TO: 03/09

**PRINCIPAL INVESTIGATOR:** Mario Díaz González

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**TITLE:** LÍPIDOS DE LA MEMBRANA NEURONAL COMO DIANAS DE LOS EFECTOS PROTECTORES DE ESTRÓGENOS Y ÁCIDOS GRASOS POLIINSATURADOS (PUFA), FRENTE AL ESTRÉS OXIDATIVO INDUCIDO POR PÉPTIDOS BETA AMILOIDEOS

**FINANCIAL ENTITIES:** MEC

**LENGHT** FROM: 04/09 TO: 12/09

**PRINCIPAL INVESTIGATOR:** Mario Díaz González

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**TITLE:** LÍPIDOS DE LA MEMBRANA NEURONAL COMO DIANAS DE LOS EFECTOS PROTECTORES DE ESTRÓGENOS Y ÁCIDOS GRASOS POLIINSATURADOS (PUFA), FRENTE AL ESTRÉS OXIDATIVO INDUCIDO POR PÉPTIDOS BETA AMILOIDEOS (RENOVACIÓN)

**FINANCIAL ENTITIES:** MEC

**LENGHT** FROM: 01/10 TO: 09/10

**PRINCIPAL INVESTIGATOR:** Mario Díaz González

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**TITLE:** PROYECTO DE INVESTIGACIÓN DE EXCELENCIA. CONVOCATORIA 2008

**FINANCIAL ENTITIES:** Junta de Andalucía

**LENGHT** FROM: 03/2011 TO: actually

**PRINCIPAL INVESTIGATOR:** Juan Ureña López

## PRESENTATIONS IN CONGRESSES

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**AUTHORS:** González-Montelongo, M.C., T Gómez, R Marín, M Díaz

**TITLE:** Non-genomic potentiation of ileal contractile activity by testosterone. Involvement of polyamines

**TYPE OF PRESENTATION:** Poster

**CONGRESS:** XXXIII Congress The Spanish Society of Physiological Sciences a Sponsored Symposia in Association with The Physiological Society (UK and Eire) and the Cutch Society of Physiology

**PUBLICATION:** XXXIII Congress The Spanish Society of Physiological Sciences a Sponsored Symposia in Association with The Physiological Society (UK and Eire) and the Cutch Society of Physiology 61(1):217-218.

**MEETING PLACE:** Sevilla. Spain

**YEAR:** 2005

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**AUTHORS:** DM de La Cruz, González, M.C., Pereda, E., Mañas, S., De Vera, L., González, J.J.

**TITLE:** Nonlinear interdependence between cardiorespiratory and EEG activity during sleep in neonates

**TYPE OF PRESENTATION:** Poster.

**CONGRESS:** XXXIII Congress The Spanish Society of Physiological Sciences a Sponsored Symposia in Association with The Physiological Society (UK and Eire) and the Cutch Society of Physiology

**PUBLICATION:** XXXIII Congress The Spanish Society of Physiological Sciences a Sponsored Symposia in Association with The Physiological Society (UK and Eire) and the Cutch Society of Physiology 61(1):275.

**MEETING PLACE:** Sevilla. Spain

**YEAR:** 2005

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**AUTHORS:** Díaz, M., González-Montelongo, M.C., Gómez, T., Marín, R.

**TITLE:** Potent non-genomic induction of LC20 phosphorylation and calcium sensitization by androgens in the mouse colonic muscle

**TYPE OF PRESENTATION:** Poster.

**CONGRESS:** 5<sup>th</sup> International Meeting Rapid Responses to Steroid Hormones

**MEETING PLACE:** Dublin. Ireland

**YEAR:** 2007

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**AUTHORS:** González-Montelongo, M.C., Marín, R., Gómez, T., Díaz, M.

**TITLE:** Androgens differentially potentiate mouse ileal smooth muscle by polyamine synthesis and Rho-kinase activation.

**TYPE OF PRESENTATION:** Poster.

**CONGRESS:** 5<sup>th</sup> International Meeting Rapid Responses to Steroid Hormones

**MEETING PLACE:** Dublin. Ireland

**YEAR:** 2007

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**AUTHORS:** González-Montelongo, M.C., Marín, R., Gómez, T., Díaz, M.

**TITLE:** Androgens activate RhoA/Rho-kinase pathway to induce calcium sensitization of intestinal contractile activity in colonic smooth muscle

**TYPE OF PRESENTATION:** Poster.

**CONGRESS:** Sixth International Meeting. Rapid Responses to Steroid Hormones. Congress Center "Ciutat d'Elx"

**MEETING PLACE:** Elche. Alicante. Spain

**YEAR:** 2009

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**AUTHORS:** Jorge Marrero-Alonso, Araceli Morales, Raquel Marín, Alicia Boto, Benito García Marrero, M<sup>a</sup> del Carmen González-Montelongo, Leandro Fernández-Pérez, Tomás Gómez y Mario Díaz

**TITLE:** Biological and Methodological Evaluation of a Novel Fluorescent Tamoxifen Derivative

*TYPE OF PRESENTATION:* Poster.

*CONGRESS:* First International Symposium HMBCI

*MEETING PLACE:* Austria

*YEAR:* 2010

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## Visits to other centers

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CENTER OF VISIT:

Agency Name: **Universidad de Castilla La Mancha**

Center: **Laboratorio de Ecotoxicología, Instituto de Ciencias Ambientales (ICAM).**

City: **Toledo**

Country: **España**

Investigator in charge of the placement: **Dr. Juan Carlos Sánchez Hernández**

Position: **Profesor Titular de Universidad.**

LENGHT OF STAY :

Start day: **8 de febrero de 2010.**

End day: **14 de mayo de 2010.**

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## AWARDS

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Awards: **"Agustín de Bethencourt" Research Prize**

Agency Name: **Obra Social y Cultural de CajaCanarias**

Center: **Caja Canarias**

City: **Santa Cruz de Tenerife**

Country: **Spain**

Año: **2010**

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