



**Patricia Ester González
Sáenz**

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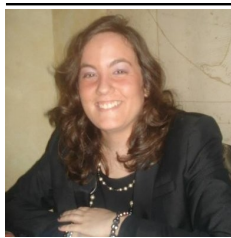
CURRÍCULUM VITAE NORMALIZADO

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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.

Publications:7; Total cites:120; h-index: 6.



Patricia Ester González Sáenz

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Current professional situation

Employing entity: Institut Químic de Sarrià **Type of entity:** University Research Institute
Department: Bioengineering, School of engineering
Professional category: Assistant Professor
Start date: 01/09/2022
Type of contract: Permanent employment contract

Previous positions and activities

	Employing entity	Professional category	Start date
	Fundacion Ramón Domínguez	PhD Student	30/06/2016

Employing entity: Fundacion Ramón Domínguez **Type of entity:** Foundation
Department: Endocrinology, Instituto de Investigación Sanitaria de Santiago de Compostela
City employing entity: Santiago de Compostela, Galicia, Spain
Professional category: PhD Student **Leadership and management (Y/N):** No
Start-End date: 30/06/2016 - 30/06/2019 **Duration:** 3 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 241104 - Endocrina physiology
Secondary (UNESCO code): 241108 - Human metabolisms

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CURRÍCULUM VÍTAE NORMALIZADO

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Summary of professional activity

BsC in Biology (2013), MsC in Cancer Biology and Clinics (2014), PhD in Endocrinology (2020), MsC in Bioengineering (2022)



Education

University education

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

- 1** **University degree:** Higher degree
Name of qualification: Master in Bioengineering
City degree awarding entity: Barcelona, Catalonia, Spain
Degree awarding entity: Institut Químic de Sarrià **Type of entity:** University Research Institute
Date of qualification: 19/05/2022
Average mark: Excellent
- 2** **University degree:** Higher degree
Name of qualification: Master in Biology and Clinics of Cancer
City degree awarding entity: Salamanca, Castile and León, Spain
Degree awarding entity: Centro de Investigación del **Type of entity:** University Research Institute
Cáncer
Date of qualification: 06/2014
Average mark: Excellent
- 3** **University degree:** Higher degree
Name of qualification: Degree in Biology
City degree awarding entity: Salamanca, Castile and León, Spain
Degree awarding entity: Universidad de Salamanca **Type of entity:** University
Date of qualification: 07/2013
Average mark: Good

Doctorates

Doctorate programme: PhD in Endocrinology
Degree awarding entity: Universidad de Santiago de **Type of entity:** University
 Compostela
Date of degree: 14/09/2020

Language skills

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



Teaching experience

Other activities/achievements not included above

Description of the activity: Laboratory training of undergraduate students of Biotechnology and Biomedical Sciences degrees

Organising entity: Institut Químic de Sarrià

Type of entity: University Research Institute

Plurality, interdisciplinarity and teaching complexity

Plenary lectures:

Cellular Biology and Genetics_ First year of Biotechnology degree (Course 2025-2026)

Laboratory Courses:

Laboratory of Biochemistry and Molecular Biology_Second year of Biotechnology degree(Course 2022-2023)

Laboratory of Biology and Microbiology_First year of Biomedical Sciences degree (Course 2023-2024)

Laboratory of Cell Culture_Third year of Biotechnology degree (Course 2023-2024)

Laboratory of Biology and Microbiology_First year of Biomedical Sciences degree (Course 2024-2025)

Laboratory of Biochemistry_Second year of Biotechnology degree(Course 2024-2025)

Laboratory of Materials Sciences_Third year of Chemistry degree and third year of Industrial Engineering degree (Course 2024-2025)

Laboratory of Biology and Microbiology_First year of Biomedical Sciences degree (Course 2025-2026)



Scientific and technological experience

Scientific or technological activities

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: Contrato predoctoral Xunta de Galicia

Funding entity or bodies:

Fundación Ramón Domínguez

Type of entity: Foundation

City funding entity: Santiago de Compostela, Galicia, Spain

Start date: 06/2016

Duration: 3 years - 5 months

Scientific and technological activities

Scientific production

H index: 6

Source of H-Index: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1 Patricia González-Sáenz; Raúl Cosialls; Robert Texidó; Aurora Dols-Pérez; Ana Belén Cuenca; Salvador Borrós; Cristina Fornaguera. Designing Polyelectrolyte Microneedles Based on Borylated Poly(β -aminoester) Polymers To Enhance Transdermal pH-Controlled Delivery of Nucleic Acids. ACS Applied Polymer Materials. 6 - 15, pp. 8842 - 8855. The Journal of the American Chemical Society, 24/07/2024.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 2 Verónica Pena Leon; Cintia Folgueira; Silvia Barja Fernández; Raquel Pérez Lois; Natália Da Silva Lima; Marion Martin; Violeta Heras; Sara Martínez Martínez; Paola Valero; Cristina Iglesias; Mannon Duquenne; Omar Al-Massadi; Daniel Beiroa; Yara Souto; Miguel Fidalgo; Rasika Sowmyalakshmi; Diana Guallar; Juan Cunarro; Cecilia Castelao; Ana Senra; Patricia González Sáenz; Rocío Vázquez Cobela; Rosaura Leis; Guadalupe Sabio; Helge Mueller Fielitz; Markus Schwaninger; Miguel López; Sulay Tovar; Felipe F. Casanueva; Emmanuel Valjent; Carlos Diéguez; Vincent Prevot; Rubén Nogueiras; Luisa M. Seoane. Prolonged breastfeeding protects from obesity by hypothalamic action of hepatic FGF21. Nature Metabolism. 4, pp. 901 - 917. Springer Nature, 25/07/2022.

Type of production: Scientific paper

Format: Journal

Source of citations: SCOPUS

Citations: 3

- 3 A Carabias; M Gómez-Hernández; S de Cima; A Rodríguez-Blázquez; A Morán-Vaquero; P González-Sáenz; C Guerrero. Mechanisms of autoregulation of C3G, activator of the GTPase Rap1, and its catalytic deregulation in lymphomas. Science Signaling. 13 - 647, pp. eabb7075. Science, 01/09/2020.

Type of production: Scientific paper

Format: Journal

Source of citations: SCOPUS

Citations: 6



- 4** Silvia Barja-Fernandez; Cintia Folgueira; Cecilia Castelao; Veronica Pena-Leon; Patricia Gonzalez-Saenz; Rocio Vazquez-Cobela; Concepción Maria Aguilera; M Gil-Campos; G Bueno; Á Gil; LA Moreno; M Ruiz-Piñon; M García-Palacios; FF Casanueva; C Dieguez; R Nogueiras; R Leis; LM Seoane. ANGPTL-4 is Associated with Obesity and Lipid Profile in Children and Adolescents. *Nutrients*. 11 - 6, pp. 1340. MDPI, 14/06/2019.

Type of production: Scientific paper

Format: Journal

Source of citations: SCOPUS

Citations: 11

- 5** Cintia Folgueira; Silvia Barja-Fernandez; Patricia Gonzalez-Saenz; Cecilia Castelao; Rocío Vázquez-Cobela; Verónica Pena-Leon; Manuel Ruiz-Piñon; Felipe F Casanueva; Carlos Dieguez; Rosaura Leis; Ruben Nogueiras; Luisa Maria Seoane. Circulating Pro-Uroguanylin Levels In Children And Their Relation To Obesity, Sex And Puberty. *Scientific Reports*. 8 - 1, pp. 14541. Nature Publishing Group, 28/09/2018.

Type of production: Scientific paper

Format: Journal

Source of citations: SCOPUS

Citations: 6

- 6** C Folgueira; S Barja-Fernandez; P Gonzalez-Saenz; V Pena-Leon; C Castelao; M Ruiz-Piñon; FF Casanueva; R Nogueiras; LM Seoane. Uroguanylin: a new actor in the energy balance movie. *Journal of Molecular Endocrinology*. 60 - 2, pp. 31 - 38. Journal of Molecular Endocrinology, 04/12/2017.

Type of production: Scientific paper

Format: Journal

Source of citations: SCOPUS

Citations: 11

- 7** Folgueira, Cintia; Barja-Fernandez, Silvia; Prado, Laura; Al-Massadi, Omar; Castelao, Cecilia; Pena-Leon, Veronica; Gonzalez-Saenz, Patricia; Baltar, Javier; Baamonde, Ivan; Leis, Rosaura; Dieguez, Carlos; Pagotto, Uberto; Casanueva, Felipe F.; Tovar, Sulay A.; Nogueiras, Ruben; Seoane, Luisa M.. Pharmacological inhibition of cannabinoid receptor 1 stimulates gastric release of nesfatin-1 via the mTOR pathway. *WORLD JOURNAL OF GASTROENTEROLOGY*. 23 - 35, pp. 6403 - 6411. BAISHIDENG PUBLISHING GROUP INC, 21/09/2017. ISSN 2219-2840

Type of production: Scientific paper

Format: Journal

Source of citations: SCOPUS

Citations: 8

Works submitted to national or international conferences

- 1** **Title of the work:** A novel multilayered surface functionalized microneedle platform for local gene delivery

Name of the conference: EMRS Spring meeting

Corresponding author: No

City of event: Strasbourg, Alsace, France

Date of event: 29/05/2023

End date: 02/06/2023

Organising entity: European Materials Research Society

"A novel multilayered surface functionalized microneedle platform for local gene delivery".

- 2** **Title of the work:** Acción de la hormona gastrointestinal uroguanilina en la regulación de la oxidación de ácidos grasos hepáticos

Name of the conference: VII Encontro de Mocidade Investigadora-EDI

City of event: Santiago de Compostela, Galicia, Spain

Date of event: 27/05/2019

End date: 29/05/2019

Organising entity: Escola de Doutoramento Internacional

City organizing entity: Santiago de Compostela, Galicia, Spain



- 3** **Title of the work:** Papel de la hormona gastrointestinal uroguanilina sobre la acumulación de ácidos grasos hepáticos
Name of the conference: VII Jornada de Investigación. Biointegrasaúde
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 14/05/2019
Organising entity: Institutos de Investigación Sanitaria de Galicia
- 4** **Title of the work:** Uroguanylin is a gastrointestinal hormone with an oxidative action in hepatic steatosis
Name of the conference: EMBO Workshop: "Organ crosstalk in energy balance and metabolic disease"
City of event: Chiclana de la Frontera, Andalusia, Spain
Date of event: 08/04/2019
End date: 11/04/2019
Organising entity: European Molecular Biology Organization
- 5** **Title of the work:** La oxidación de ácidos grasos hepáticos está regulada por la hormona gastrointestinal uroguanilina
Name of the conference: XV Congreso Nacional de la Sociedad Española para el Estudio de la Obesidad(SEEDO)
City of event: Vigo, Galicia, Spain
Date of event: 13/03/2019
End date: 15/03/2019
Organising entity: Sociedad Española para el Estudio de la Obesidad
Type of entity: Associations and Groups
- 6** **Title of the work:** Regulación de la oxidación de ácidos grasos hepáticos por la hormona gastrointestinal uroguanilina
Name of the conference: 31 Congreso de la Sociedad Gallega de Endocrinología, Nutrición y Metabolismo
City of event: Pontevedra, Galicia, Spain
Date of event: 16/11/2018
End date: 17/11/2018
Organising entity: Sociedad Gallega de Endocrinología, Nutrición y Metabolismo
- 7** **Title of the work:** Efecto de la uroguanilina sobre la acumulación de lípidos en una línea celular hepática humana
Name of the conference: VI Encontro de Mocidade Investigadora en Ciencias da Saúde
City of event: Santiago de Compostela, Galicia, Spain
Date of event: 12/06/2018
End date: 13/06/2018
Organising entity: Escola de Doutoramento Internacional(USC=
City organizing entity: Santiago de Compostela, Galicia, Spain
- 8** **Title of the work:** Acción de la uroguanilina en la esteatosis hepática
Name of the conference: VI JORNADA DE INVESTIGACIÓN BIOINTEGRASAÚDE
City of event: Vigo, Galicia, Spain
Date of event: 29/05/2018
Organising entity: Institutos de Investigación Sanitaria de Galicia
City organizing entity: Galicia, Spain
- 9** **Title of the work:** REGULACIÓN DIFERENCIAL DE LA EXPRESIÓN DE LA HORMONA GASTROINTESTINAL UROGUANILINA EN LAS DISTINTAS ETAPAS DE DESARROLLO
Name of the conference: 29 congreso de la Sociedad Gallega de Endocrinología, Nutrición y Metabolismo



City of event: Ferrol, Galicia, Spain

Date of event: 18/11/2016

End date: 19/11/2016

Organising entity: Sociedad Gallega de Endocrinología, Nutrición y Metabolismo

City organizing entity: Galicia, Spain

Type of entity: Associations and Groups

10 Title of the work: REGULATION OF UROGUANYLIN PRODUCTION THROUGH THE AGE

Name of the conference: XVII Reunión de la Sociedad Española de Nutrición-XXII Congreso de la Sociedad de Nutrición y Dietética de Galicia

City of event: Santiago de Compostela, Galicia, Spain

Date of event: 02/11/2016

End date: 05/11/2016

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

11 Title of the work: El papel de la uroguanilina en la regulación del peso corporal por el tracto gastrointestinal

Name of the conference: IV Encontro Mocidade Investigadora

City of event: Santiago de Compostela, Galicia, Spain

Date of event: 09/06/2016

End date: 10/06/2016

Organising entity: Escuela de Doctorado Internacional de la Universidad de Santiago de Compostela

Type of entity: University Department

City organizing entity: Santiago de Compostela, Galicia, Spain

12 Title of the work: Regulation of the response regulator CtrA in Sinorhizobium meliloti cell cycle regulation

Name of the conference: IX Congress of the Spanish Federation of Biotechnologists

Type of event: Conference

City of event: Salamanca, Castile and León, Spain

Date of event: 08/07/2015

End date: 10/07/2015

Organising entity: Asociación de Biotecnología de Salamanca

Type of contribution: Scientific paper

Schallies, Karla; Gonzalez-Saenz, Patricia. "NEW BIOTECHNOLOGY". 33 - 3, pp. 416 - 416. 25/05/2016. ISSN 1871-6784

Other achievements

Obtained grants and scholarships

- 1 Name of the grant:** Axudas de apoio á etapa predoutoral nas universidades do SUG, nos organismos públicos de investigación de Galicia e noutras entidades do Sistema galego de I+D+i, cofinanciadas parcialmente polo programa operativo FSE Galicia 2014-2020

Aims: Pre-doctoral

Awarding entity: Xunta de Galicia

Type of entity: Organismo de Gobierno de Galicia

Conferral date: 06/2016

Duration: 3 years

End date: 10/2019

Entity where activity was carried out: Instituto de Investigaciones Sanitarias



- 2** **Name of the grant:** Programa de Becas de intercambio con Universidades extranjeras 2014-2015_MCOB
PhD program
Aims: Pre-doctoral
Awarding entity: Universidad de Salamanca **Type of entity:** University
Conferral date: 20/01/2015 **Duration:** 6 months
End date: 20/06/2015
Entity where activity was carried out: University of Massachussets Boston

Other types of collaboration with researchers or technologists

Type of relationship: project with company
Description of the collaboration: Flow cytometry technical service and formation to Calier company
City: Castile and León, Spain
Duration: 2 years