

PERSONAL DETAILS



Lucía González Gutiérrez

- 📍 C/ Duque y Merino 5C, 4ºB 39200 Reinosa (Cantabria), Spain
- ☎ Tlf: +34 942 752514 // +34 618015735
- ✉ E-mail: gonzalez.gutierrez.lucia@gmail.com

Doctor in Biomedical Research. I have a great domain of molecular, biochemical and cellular physiological techniques (CRISP-CAS-9 editing, RT-PCR and qRT-PCR, western blot, immunoprecipitations, immunocytochemistry, electrophysiology, cell primary and cells lines cultures, flow cytometry). I also domain a lot of images analysis techniques (Fluorescence, ultraviolet and confocal microscopy...), text and image edition and statistical analysis. In addition to experience in animal handling. With international projection, communication and social skills.

EDUCATION AND TRAINING

Doctorate in Biomedical Research.

"Calcium channel remodelling in colon cancer cells: Implications for channel inactivation and reversal by polyamine synthesis inhibition". Instituto de Biología y Genética Molecular (IBGM), Universidad de Valladolid – Consejo Superior de Investigaciones Científicas(CSIC). University of Valladolid. 2014 - 2019

Master´s Degree in Biomedical Research.

"Efectos del inhibidor de la ornitina descarboxilasa DFMO sobre el remodelado del Ca²⁺ intracelular en cáncer de colon". Instituto de Biología y Genética Molecular (IBGM), Universidad de Valladolid – Consejo Superior de Investigaciones Científicas(CSIC). University of Valladolid. 2013 - 2014

Degree in Biología.

Biología Funcional y Molecular. University de Oviedo. 2007- 2013

WORK EXPERIENCE

- Postdoctoral Research, Physiology department in Veterinary School, University of Extremadura. Cáceres. 2020/January - July; 2020/October - December
- Predoctoral Researcher Staff, University of Valladolid, Instituto de Biología y Genética Molecular (IBGM) Uva-CSIC. Valladolid. 2015 - 2019
- Titulado Superior de Actividades Técnicas y Profesionales, Consejo Superior de Investigaciones Científicas (CSIC), IBGM, Valladolid. 2015/January – 2015/July
- Internship in "Unidad de Quimiopreención y Neuroprotección de Fisiología del Calcio Intracelular", Supervised by Lucía Núñez y Carlos Villalobos. IBGM, Valladolid. 2013 - 2014
- Internship in "Fundación de Investigación Oftalmológica Fernández-Vega, Unidad de Superficie Ocular y Córnea", Oviedo. 2012 - 2013
- Internship in "Unidad de Epigenética del Cáncer, Instituto Universitario Oncológico del Principado de Asturias y Hospital Universitario Central de Asturias (IUOPA-HUCA)", Oviedo 2011/July-2011/August

FURTHER TRAINING AND MEETINGS

- Lifting the Cellular fog with total internal reflection fluorescence (TIRF) Microscopy - Lesson 8, 9, 10 Andor Technology, (2021).
- Microscopy Cameras: Fundamentals of digital imaging and sensor technologies - Lesson 1, 2, 3, Andor Technology, (2020).
- Webinar "Fundamentos de la Gestión del Tiempo" (2020).
- **1st Junior European Calcium Society Virtual Meeting**, Oral Communication, (2020).
- VII RECI, 7th Congress of Spanish Network of Ion Channels, University of Extremadura, Oral Communication, Cáceres (Spain, 2019).
- III Cycle, Return home for Christmas, 4hours, University of Valladolid, (2019).
- **XXXIX Conference of the Spanish Society of Physiological Sciences (SECF)**, Cádiz (2018).
- Why is animal testing necessary? Case study: Murine models of inflammation pulmonary, 2 hours, University of Valladolid (2018).
- VIII Centenary University of Salamanca, "Nuevos retos en Investigación Oncológica", University of Salamanca, (2018)
- Animal models for the study of metabolic dysfunctions, 3hours , University of Valladolid, (2017).

- I Research Meeting in Bioengineering and Medicine. EsDUVa (Doctorate School), University of Valladolid (2017).
- II Conference of Doctoral Students of the Doctoral Program in Biomedical Research. EsDUVa, (Doctorate School), University of Valladolid (2017).
- R Program training course. Plataform edX, University of Harvard (2017).
- Certificate Function dissemination of the research of the competition 3 minutos theses (3MT) in Centers of Secondary Education, EsDUVa, (Doctorate School), University of Valladolid (2017).
- I Conference of Doctoral Students of the Doctoral Program in Biomedical Research. EsDUVa, (Doctorate School), University of Valladolid (2016).
- Competition 3 minutes thesis, EsDUVa, (Doctorate School), University of Valladolid, (2016).
- III ConBioPreVal - I National Conference of Young Biomedical Researchers. University of Valencia (2016).
- IX Course in Biomedical Research Management. 6 horas ICiCOR (Instituto de Ciencias del Corazón). Valladolid (2016).
- **XIV Internacional Conference of European Calcium Society (ECS)**. Valladolid, September (2016).
- VIII Course in Biomedical Research Management, 6 hours; ICiCOR (Instituto de Ciencias del Corazón), Valladolid (2015).
- **V RECI** – 5^o Conference of Spanish Red of Ionic channels – Biofísica. Universitat Pompeu Fabra, Barcelona. (2015).
- VII Course in Biomedical Research Management, 6 hours; ICiCOR (Instituto de Ciencias del Corazón), Valladolid (2014).
- IV University Conference on Biology: Pathogens and their world, 25 hours; University of Oviedo, (2012).
- Nutraceuticals (Functional Foods): Biotechnology and Health, 45 hours; University of Oviedo, (2011).
- Biology What's behind the classroom?, 20 hours; University of Oviedo, (2009).

PUBLICATIONS

- Deng J*, **Gutiérrez LG***, Stoll G*, Martins I, Núñez L, Motiño O, Bravo-San Pedro JM, Humeau J, Bordenave C, Pan J, Fohrer-Ting H, Souquere S, Pierron G, Hetz C, Villalobos C, Kroemer G, Senovilla L (2021). Paradoxical implication of BAX/BAK in the persistence of tetraploid cells. Cell Death & Differentiation; * These authors have equally contributed to this work. Alphabetical order).2021
- Sanchez-Collado J, Lopez JJ, **Gonzalez-Gutierrez L**, Cantonero C, Jardin I, Salido GM, Rosado JA (2020). Functional role of TRPC6 and STIM2 in cytosolic and endoplasmic reticulum Ca²⁺ content in resting estrogen receptor-positive breast cancer cells. Biochem J. 2020 Sep 18;477(17):3183-3197.
- **Gutiérrez LG**, Hernández-Morales M, Núñez L, Villalobos C (2019). Inhibition of polyamine biosynthesis reverses intracellular Ca²⁺ remodeling in colon cancer cells. Cancers 2019 Jan 13;11(1).pii: E83.IF: 5.326/D1
- Villalobos C, **Gutiérrez LG**, Hernández-Morales M, Núñez L (2019). TRPC1 and Orai1 channels in colon cancer. Cell Calcium 81, 59-66. IF 3,707 / Q1.
- Villalobos C, Hernández-Morales M, **Gutiérrez LG**, Núñez L (2018). Mitochondrial control of store-operated Ca²⁺ channels in cancer: pharmacological implications. Pharmacol Res 135, 136-143. IF: 4,897 /D1.
- Pérez-Riesgo E, **Gutiérrez LG**, Ubierna U, Acedo A, Moyer MP, Núñez L, Villalobos C (2017). Transcriptomic Analysis of Calcium Remodeling in Colorectal Cancer. Int. J. Mol. Sci. 18(5), E9222.

COMMUNICATIONS

- **“Channel complexes involved in remodeling of store-operated channels in colon cancer cells and their reversal by DFMO”**. Comunicación Oral. 1st Junior European Calcium Society Virtual Meeting. Octubre 20-21, 2020.
- **“Reversing calcium channel remodeling in colon cancer cells by polyamines biosynthesis inhibition”**. Comunicación Oral. VII Red Española de Canales Iónicos (RECI), Cáceres. Mayo 15-17, 2019.
- **“Inhibition of polyamine biosynthesis by DFMO reverts partially calcium remodeling in colon cancer cells”**. Comunicación poster. XIV Congreso internacional de la Sociedad Europea de Calcio (ECS). Valladolid, September 2016.
- **“Inhibition of polyamine biosynthesis by DFMO reverts partially calcium remodeling in colon cancer cells”**. Comunicación poster. III Conbiopreval, I Congreso Nacional Biomedicina Jóvenes Investigadores
- **“Effects of a cancer chemopreventive compound on calcium channel remodeling in colon carcinoma cells”**. Comunicación poster. V Congreso Red Española de Canales Iónicos (RECI). Barcelona. Octubre

LANGUAGES

- English: ▪ Ise II Reading and Writing Module CEFR Level B2 by Trinity Collage London, 2019.
- Level B2, Language Assessment in English by Erasmus+ Europass CV. 2018.
 - Level B1, Escuela Oficial de Idiomas (33022293), Oviedo, 2012

PROJECTS

- "RTI2018-099298-B-100, BFU2012-37146 y BFU2015-70131R del MINECO y BIO/VA46/ 14 JCYL. LGG y DS" supported by University of Valladolid and CSIC.
- Predoctoral contract by University of Valladolid (July 2015 – July 2019) supported by Santander Bank.
- ERASMUS+ predoctoral, Center Les Cordeliers, Institut National de la Santé et de la Recherche Médicale (INSERM), Paris, France , June-August 2018.

COLLABORATIONS AND STAYS

- University of Extremadura, Veterinary School, Physiology department. "Study of the interactions among TRPC1-Stim1-Orai1". January 2017 – March 2017
- **INSERM**, Center of Research Des Cordeliers - Universidad de Paris Descartes. Equipo 11 of Guido Kroemer y Laura Senovilla. Study of the implication of BAX-AK in polyploide cancer cells generation. June 2018 - August 2018

AWARDS AND HONORS

- Poster Communication Accesit Prize III ConBioPreVal -I National Congress of Youth Biomedicine Researchers. University of Valencia (2016).
- Committee of organization in 3minutes thesis competition, EsDUVa, University of Valladolid (2016).
- Committee of organization II Conference of Doctoral Students of the Doctoral Program in Biomedical Research. EsDUVa, University of Valladolid (2017).
- Distinction of the training program in Research of the University of Valladolid and the Banco Santander, recognized the course 2018/2019, University of Valladolid, (2018).
- Committee of organization and participation Program of Tutorado of Doctorates. University of Valladolid, (2019).

REFERENCES

- Dr. Carlos Villalobos Jorge, Senior scientific.
Instituto de Biología y Genética Molecular, CSIC; Sáenz y Forés 3, 47003, España.
Tlf: 983 1848 21 E-mail: carlosv@ibg,.uva.es
- Dr. Lucía Núñez Llorente, Associate Professor in Physiology School of Medicine.
School of Medicine, University of Valladolid; Ramón y Cajal 7, 47003, España.
Tlf: 983 1848 21/22 E-mail: nunezl@ibgm.uva.es
- Dr. Laura Senovilla, Senior scientific.
INSERM, Cordeliers Research Centre U1138-team11. Paris Descartes University; 15 rue de l'école de médecine, 75006, Francia; E-mail: laurasenovilla@hotmail.com
- Dr. Juan Antonio Rosado Dionisio, Catedrático de la Univesidad de Extremadura.
Campus universitario, Av. de la Universidad s/n, 10003. Cáceres, España.
Tlf: 924251376 E-mail: jarosado@unex.es