

<b>CV Date</b>	31/01/2022
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## Part A. PERSONAL INFORMATION

First Name	Diego Alberto		
Family Name	Peraza Pérez		
Sex	Male	Date of Birth	28/06/1992
ID number Social Security, Passport	78591170D		
URL Web	<a href="http://www.vsmcgroup.uva.es/UIC/index.html">http://www.vsmcgroup.uva.es/UIC/index.html</a>		
Email Address	diego.dayago@gmail.com		
Open Researcher and Contributor ID (ORCID)	0000-0002-3913-8619		

### A.1. Current position

Job Title	Investigador Postdoctoral JCyL		
Starting date	2021		
Institution	Universidad de Valladolid		
Department / Centre	Dpto. de Bioquímica y Biología Molecular y Fisiología / Instituto de Biología y genética Molecular		
Country	Spain	Phone Number	(+34) 983184810
Keywords	Electrophysiology; Animal immunology; Cardiovascular disorders		

### A.2. Previous positions (Research Career breaks included)

Period	Job Title / Name of Employer / Country
2019 - 2020	GRUPO PROFESIONAL G2. ÁREA FUNCIONAL TÉCNICA Y PROFESIONAL / Consejo Superior de Investigaciones Científicas
2015 - 2019	CONTRATADO PREDOCTORAL / Consejo Superior de Investigaciones Científicas
2014 - 2015	GRUPO PROFESIONAL G1. ÁREA FUNCIONAL TÉCNICA Y PROFESIONAL / Consejo Superior de Investigaciones Científicas

### A.3. Education

Degree/Master/PhD	University / Country	Year
Programa Oficial de Doctorado en Bioquímica, Biología Molecular, Biomedicina y Biotecnología (Biociencias Moleculares)	Universidad Autónoma de Madrid	2020
Máster Universitario en Investigación Farmacológica	Universidad Autónoma de Madrid	2015
Graduado o Graduada en Biología Sanitaria	Universidad de Alcalá	2014

## Part B. CV SUMMARY

**ORCID code:** 0000-0002-3913-8619

**Total number of indexed publications:** 10

**Nº. Of publications Q1:** 8 (80%)

**Nº. Of as first, author/shared authorship:** 3

**h-index (Web of Science):** 3

My research activity has focused on the fields of electrophysiology, molecular biology and the physiology of membrane proteins in contexts as diverse as immunology, cardiovascular diseases or neurodegenerative diseases. I have participated on a regular basis at national and international scientific conferences and meetings on Biophysics (BPS), Cardiology (EWGCCE), as well as smaller and more specialized meetings such as Symposium CSIC-UAM, FARMADRID or the Spanish RECI. In addition, the 10 scientific articles published in

indexed journals (h index = 3 of WOS) and the more than 10 communications in national and international scientific meetings support my research career in this context. I have made short stays in different research laboratories. I was in the laboratory of Dr. Ana Briones (IdiPAZ-UAM) (2 weeks) and in the laboratory of Dr. Lisardo Boscá (CSIC-UAM) learning the techniques they use in their laboratories and collaborating in different projects that have given rise to different scientific publications. Likewise, Dr. Rubén Vicente (UPF) and Dr. Antonio Felipe (UB) advised me in my predoctoral stage. Therefore, I have worked in different departments and research groups, which has allowed me to develop different projects with animals and cell preparations, as well as handle a wide range of molecular, cell and physiology biology techniques.

I began my research work (Undergraduate Thesis and Master's Thesis) in the Ion Channels I group of the "Alberto Sols" Biomedical Research Institute CSIC-UAM, Department of Biochemistry of the UAM. Then I obtained my Ph.D. in the same Department, under the direction of Dr. Carmen Valenzuela Miranda and the co-direction of Teresa González Gallego "Modulation of the polarization state of macrophages by antitumor drugs. Electrophysiological study". Subsequently, I started my postdoctoral research in the Ion Channels and Vascular Physiopathology group of Drs. Teresa Pérez García and José Ramón López López at the UVa, where I am developing my current activity. During this time, I have participated in the start-up and development of several projects in which I have been an active participant and witness to the origin and progress of the group's main lines of research: ion channels and their involvement in vascular diseases.

My research activity has always been developed in a teaching environment. During my predoctoral stage, I participated in the teaching of the Medicine Degree of the Department of Biochemistry of the Faculty of Medicine of the UAM (96 h Total). During my current postdoctoral stage, I participate in the teaching of the Degree in Medicine, the Degree in Biomedical Engineering and the Degree in Optics and Optometry of the Department of Biochemistry and Molecular Biology and Physiology of the Faculty of Medicine of the UVa (29 h Totals).

## Part C. RELEVANT ACCOMPLISHMENTS

### C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 Scientific paper.** Adrián Povo-Retana; Marina Mojena; Alberto Boscá; et al; Diego Alberto Peraza; Lisardo Boscá. (5/9). 2021. Graphene Particles Interfere with Pro-Inflammatory Polarization of Human Macrophages: Functional and Electrophysiological Evidence. *Advanced Biology*. 5-2100882, pp.1-13. ISSN 2701-0198. WOS (0)
- 2 Scientific paper.** Aytug K Kiper; Mauricio Bedoya; Sarah Stalke; et al; Diego A Peraza; Niels Decher. (7/15). 2021. Identification of a critical binding site for local anaesthetics in the side pockets of Kv 1 channels. *British Journal of Pharmacology*. 178, pp.3034-3048. ISSN 0007-1188. WOS (1)
- 3 Scientific paper.** \*Miguel A Olivencia; \*Marta Martínez-Casales; \*Diego A Peraza; et al; Ana M Briones. (1/11). 2021. Kv1.3 channels are novel determinants of macrophage-dependent endothelial dysfunction in angiotensin II-induced hypertension in mice. *British Journal of Pharmacology*. 178, pp.1836-1854. ISSN 0007-1188. WOS (2)
- 4 Scientific paper.** Alvaro Macias; Alicia de la Cruz; Diego A Peraza; Angela de Benito Bueno; Teresa Gonzalez; Carmen Valenzuela. (3/6). 2021. Kv1.5-KvBeta1.3 Recycling Is PKC-Dependent. *International Journal of Molecular Sciences*. 22-1336, pp.1-12. ISSN 1422-0067. WOS (0)
- 5 Scientific paper.** \*Alejandro Lopez-Hurtado; \*Diego A Peraza; \*Pilar Cercos; et al; Marta Gutierrez-Rodriguez. (1/13). 2019. Targeting the neuronal calcium sensor DREAM with small-molecules for Huntington's disease treatment. *Scientific Reports*. 9, pp.1-16. ISSN 2045-2322. WOS (2)

- 6 **Scientific paper.** \*Diego A Peraza; \*Pilar Cercós; Pablo Miaja; et al; Carmen Valenzuela. (1/15). 2019. Identification of IQM-266, a Novel DREAM Ligand That Modulates K V 4 Currents. *Frontiers in Molecular Neuroscience*. 12-11. ISSN 1662-5099. WOS (2)
- 7 **Scientific paper.** Alicia de la Cruz; Alba Vera-Zambrano; Diego A. Peraza; Carmen Valenzuela; Juan M. Zapata; Gema Perez-Chacon; Teresa Gonzalez. (3/7). 2017. Fludarabine Inhibits KV1.3 Currents in Human B Lymphocytes. *Frontiers in Pharmacology*. 8-177. ISSN 1663-9812.
- 8 **Scientific paper.** A Macías; A de la Cruz; A Prieto; DA Peraza; MM Tamkun; T González; C Valenzuela. (4/7). 2014. PKC inhibition results in a Kv1.5 + KvB1.3 pharmacology closer to Kv1.5 channels. *British Journal of Pharmacology*. 171, pp.4914-4926. ISSN 1476-5381. WOS (4)
- 9 **Bibliographic review.** Pilar Cercós; Diego A Peraza; Angela de Benito-Bueno; et al; Marta Gutiérrez-Rodríguez. (2/14). 2021. Pharmacological Approaches for the Modulation of the Potassium Channel Kv4.x and KChIPs. *International Journal of Molecular Sciences*. 22-1419, pp.1-21. ISSN 1422-0067. WOS (0)
- 10 **Scientific paper.** Cristina Moreno; Anna Oliveras; Chiara Bartolucci; et al; Diego A Peraza; Carmen Valenzuela. (6/13). 2017. D242N, a KV 7.1 LQTS mutation uncovers a key residue for I Ks voltage dependence. *Journal of Molecular and Cellular Cardiology*. 110, pp.61-69. ISSN 0022-2828. WOS (9)

## C.2. Conferences and meetings

- 1 Diego Alberto Peraza Pérez; Pilar Cercós Pita; Pablo Miaja Hernández; Yaiza García Merinero; Laura Lagartera; Paula García Socuéllamos; Carolina Izquierdo García; Sara Arias Sánchez; Alejandro López Hurtado; Mercedes Martín Martínez; Luis A. Olivos Oré; José Ramón Naranjo Orovio; Antonio Rodríguez Artalejo; Marta Gutiérrez Rodríguez; Carmen Valenzuela Miranda. Identification of IQM-266, a Novel DREAM Ligand That Modulates KV4 Currents. 7th Spanish Ion Channel Network Meeting (RECI-VII). RECI Red Española de Canales iónicos. 2019. Spain.
- 2 Diego Alberto Peraza Pérez; Adrián Povo Retana; Lisardo Boscá Gomar; Carlos María Galmarini; Carmen Valenzuela Miranda. Remodeling of mice macrophages induced by trabectedin. 7th Spanish Ion Channel Network Meeting (RECI-VII). RECI Red Española de Canales iónicos. 2019. Spain.
- 3 Diego Alberto Peraza Pérez; Ana B. García Redondo; Adrián Povo Retana; Sara Arias Sánchez; Ana María Briones Alonso; Lisardo Boscá Gomar; Carlos María Galmarini; Carmen Valenzuela Miranda. Re-education of Tumor Associated Macrophages by Trabectedin. Biophysical Society 63 rd Annual Meeting. Biophysical Society. 2019. United States of America.
- 4 Cristina Moreno Vadillo; Anna Oliveras Martínez; Chiara Bartolucci; C. Munoz; Alicia de la Cruz Fernández; Diego Alberto Peraza Pérez; J.R Gimeno; Mercedes Martín Martínez; Stefano Severi; Antonio Felipe Campo. D242N, a K(V)7.1 LQTS Mutation Uncovers a KEY Residue for I-KS Voltage Dependence. Biophysical Society 62 nd Annual Meeting. Biophysical Society. 2018. United States of America.
- 5 Chiara Bartolucci; Cristina Moreno Vadillo; Anna Oliveras Martínez; C Munoz; Alicia de la Cruz Fernández; Diego Alberto Peraza Pérez; J.R. Gimeno; Mercedes Martín Martínez; Stefano Severi; Antonio Felipe Campo. I-Ks Computational Modeling to Enforce the Investigation of D242N, a K(V)7.1 LQTS Mutation. 44 Computing in Cardiology Conference. Computing in Cardiology Conference. 2017. France.
- 6 Diego Alberto Peraza Pérez; Ana B. García García-Redondo AB; Marina Mojena Sánchez; Alicia de la Cruz Fernández; Ana María Briones Alonso; Lisardo Boscá Gomar; Carlos María Galmarini; Carmen Valenzuela Miranda. Trabectedin Re-Educates Resting Peritoneal Macrophages into M1-Subtype. 6th Spanish Ion Channel Network Meeting (RECI-VI). RECI Red Española de Canales iónicos. 2017. Spain.
- 7 Diego Alberto Peraza Pérez; Ana B. García Redondo; Marina Mojena Sánchez; Alicia de la Cruz Fernández; Ana María Briones Alonso; Lisardo Boscá Gomar; Carlos María Galmarini; Carmen Valenzuela Miranda. Trabectedin Re-Educates Resting Peritoneal Macrophages into M1-Subtype. 4th Symposium on Biomedical Research. Advances and Perspectives in Immunology and Immunotherapy.. Universidad Autónoma de Madrid. 2017. Spain.

- 8 Diego Alberto Peraza Pérez; Marina Mojena Sánchez; Alicia de la Cruz Fernández; Teresa González Gallego; Lisardo Boscá Gomar; Carlos María Galmarini; Carmen Valenzuela Miranda. Trabectedin Re-Educates Resting Peritoneal Macrophages into M1-Subtype. Biophysical Society 61st Annual Meeting. Biophysical Society. 2017. United States of America.
- 9 Diego Alberto Peraza Pérez; Paloma Ozores; Pilar Cercós Pita; Ángela Prieto Folgado; Alicia de la Cruz Fernández; José Ramón Naranjo Orovio; Marta Gutiérrez Rodríguez; Carmen Valenzuela Miranda. Characterization of new selective KChIP3 modulators. 3rd Symposium on Biomedical Research. Advances and Perspectives in Neuroscience.. Universidad Autónoma de Madrid. 2016. Spain.
- 10 Alicia de la Cruz Fernández; Álvaro Macías Martínez; Ángela Prieto Folgado; Diego Alberto Peraza Pérez; Michael M. Tamkun; Teresa González Gallego; Carmen Valenzuela Miranda. Pharmacological Consequences of PKC Inhibition on Kv1.5+Kvbeta1.3 Channels. Biophysical Society 60th Annual Meeting. Biophysical Society. 2016. United States of America.
- 11 Diego Alberto Peraza Pérez; Paloma Ozores; Pilar Cercós Pita; Ángela Prieto Folgado; Alicia de la Cruz Fernández; José Ramón Naranjo Orovio; Marta Gutiérrez Rodríguez; Carmen Valenzuela Miranda; Teresa González Gallego. Characterization of new selective KChIP3 modulators. 5th Spanish Ion Channel Network Meeting (RECI-V). RECI Red Española de Canales iónicos. 2015. Spain.
- 12 Diego Alberto Peraza Pérez; Paloma Ozores; Pilar Cercós Pita; Ángela Prieto Folgado; Alicia de la Cruz Fernández; José Ramón Naranjo Orovio; Marta Gutiérrez Rodríguez; Carmen Valenzuela Miranda; Teresa González Gallego. Caracterización electrofisiológica de nuevos moduladores selectivos de KChIP3.. XXIV Reunión de Farmacólogos de la Comunidad de Madrid. FARMADRID-24. FUNDACION INSTITUTO TEOFILO HERNANDO. 2015. Spain.

### C.3. Research projects and contracts

- 1 **Project.** PID2019-104366RB-C21. Estudio de las proteínas integrantes del canalosoma Kv1.5 y Kv4.3 como dianas para la fibrilación auricular.. Agencia Estatal de Investigación. Carmen Valenzuela Miranda. (Consejo Superior de Investigaciones Científicas Instituto de Investigaciones Biomédicas "Alberto Sols" Universidad Autónoma de Madrid Instituto de Química Médica CSIC). 01/10/2020-30/09/2023. 240.000 €.
- 2 **Project.** VA172P20. Los canales Kv1.3 como nuevas dianas terapéuticas para la prevención de las complicaciones macrovasculares en diabetes: Una abordaje multidisciplinar.. Junta de Castilla y León. María Teresa Pérez García. (Universidad de Valladolid). 01/04/2021-31/03/2023. 172.000 €.
- 3 **Project.** SAF2016-75021-R. Estudio en profundidad del canalosoma cardiaco de Kv1.5.. Agencia Estatal de Investigación. Carmen Valenzuela Miranda. (Consejo Superior de Investigaciones Científicas Instituto de Investigaciones Biomédicas "Alberto Sols" CSIC-UAM Universidad Autónoma de Madrid). 30/12/2016-29/12/2020. 190.000 €.
- 4 **Project.** SAF2013-45800-R. Canalosoma de Kv1.5: Papel de Lgi1-4 y Sig-1R. Consecuencias Farmacológicas.. Agencia Estatal de Investigación. Carmen Valenzuela Miranda. (Consejo Superior de Investigaciones Científicas Instituto de Investigaciones Biomédicas Alberto Sols CSIC-UAM Universidad Autónoma de Madrid). 01/01/2014-31/12/2017. 170.000 €.
- 5 **Contract.** 20151144. Modulation of voltage-dependent and inward-rectifier potassium channels by trabectedin and its analogues in activated murine macrophages. PharmaMar S.A.. Carmen Valenzuela Miranda. 01/07/2015-01/07/2018. 132.993,33 €.