

<b>Part A. PERSONAL DATA</b>		<b>Date of the CVA</b>	11-01-2022
Name and surname	Diego Heras Marquez		
DNI/NIE/passport	50338246D	Age	23
No. identification of the researcher	Researcher ID		
	Orcid Code	0000-0003-1398-9842	

### A.1. Current professional situation

Organism	Complutense University of Madrid		
Dept./Center	Biochemistry and Molecular Biology, Faculty of Chemical Sciences		
Address	C\ Ribera del Manzanares 93, 4 D		
Telephone	+34633167072	email	diegoherasmarquez@gmail.com
Professional category	PhD student	Start date	2021
Spec. code. UNESCO	Molecular biology		
Keywords	Pore-forming toxins, actinoporins, lipids, cell signaling, Hedgehog		

### A.2. Academic training (degree, institution, date)

Bachelor/Bachelor/Doctorate	University	Year
Degree in Biochemistry	Complutense University of Madrid	2016-2020
Master in Biochemistry, Molecular Biology and Biomedicine	Complutense University of Madrid	2020-2021
PhD in Biochemistry, Molecular Biology and Biomedicine	Complutense University of Madrid	2021-Present

### A.3. General indicators of the quality of scientific production (see instructions)

### Part B. FREE SUMMARY OF THE CURRICULUM (maximum 3500 characters, including blank spaces)

I finished my studies of the Degree in Biochemistry at the Complutense University of Madrid, with an average grade of 8.15, where I also studied the Master of Biochemistry, Molecular Biology and Biomedicine, obtaining an average of 9.48 and the prize for the Best Record in the Master in **Biochemistry, Molecular Biology and Biomedicine** of the 2020-2021 academic year.

Since 2018 I have been collaborating in the **Toxic Proteins Group**, within which I have not only collaborated in different research tasks, but during the 2019-2020 academic year I carried out my Final Degree Project, entitled "CLONING AND PRODUCTION OF THE SOLUBLE DOMAIN OF THE RECOMBINANT HUMAN GAS1 PROTEIN IN PICHIA PASTORIS" under the direction of the Harvard-UCM postdoctoral researcher Sara García Linares. This TFG obtained a rating of 9.2. The continuation of this work constituted my Master's Thesis, which I developed in the same group under the direction of the same doctor. This one obtained a rating of 9.3. I am currently developing my doctoral thesis in the same research group, continuing with the work done during my TFG and TFM, under the direction of postdoctoral researcher Sara García Linares and Professor Álvaro Martínez del Pozo.

I did two school stays, of one month each, to learn English in Worthing (2013) and in Exeter (2015), England. I have an English level of C1.1.

During the summer of 2019, I spent a two-and-a-half-month stay within the Erasmus+ Internship programme (Erasmus+ programme 2018-2019) in the laboratory of Professor **J. Peter Slotte**, at Åbo Akademi University (Turku, Finland). During this stay I learned the

management of numerous fluorimetric techniques as well as the management of lipids and liposomes, with special emphasis on sphingolipids and cholesterol.

I was a fencer for much of my life (2007-2018), being recognized as a **High-Performance Athlete** by the Community of Madrid (2016-2018), getting the first place by Teams in the modality of Men's Foil in the Spanish M-20 Championship held in 2015 in Moralzarzal. I also served as territorial arbitrator of the Foil modality (2016-2017).

## **Part C. MOST RELEVANT MERITS** (sorted by typology)

### **C.1. Publications**

- J. Palacios-Ortega, S. García-Linares, E. Rivera-de-Torre, **D. Heras-Márquez**, J.G. Gavilanes, J.P. Slotte, Á. Martínez-del-Pozo. "Structural foundations of sticholysin functionality". *BBA – Proteins and Proteomics* 1869 (10).

### **C.2. Projects**

TITLE: *Anticipation and prevention of COVID-19 in the Community of Madrid (ANTICIPA-CM)*.

FINANCING ENTITY: Community of Madrid – ERDF – REACT Resources – EU.

PRINCIPAL INVESTIGATOR: Álvaro Martínez del Pozo.

DURATION: January 2021 – December 2022.

AMOUNT: € 155,000 (subproject); € 8,500,000 global project.

PARTICIPATION: Recombinant production of SARS-CoV-2 proteins and their different variants.

### **C.3. Contracts**

- PhD Contract of the Complutense University of Madrid. Call 2020, CT82/20-CT83/20. (2021-2025).

### **C.4. Patents**

Not applicable.

### **C.5. Attendance at Congresses and Courses**

- Attendance at the Tenth European Night of Researchers in Madrid (2019).
- Attendance at the MicroMundo Symposium and presentation of the activity developed during the project: "MicroConCiencia". (2021).
- Attendance and exhibition of a poster at the Symposium of the RSEQ. (2021)
- Attendance and exhibition of a *flash* communication in the V Conference of Promotion of Basic Research for Students of Sciences and Engineering (2021).
- Attendance at the First International Congress of the European Venom Network (EUVEN). (2021).

### **C.6. Awards and Scholarships**

- Trainee Erasmus +scholarship (Erasmus+ program 2018-2019) at professor J. Peter Slotte laboratory's, in Åbo Akademi University (Turku, Finlandia). (June 2019 – August 2019).
- Collaboration Scholarship in University Departments of the Complutense University of Madrid (academic year 2019-2020).
- Honorary Collaborator of the Department of Biochemistry and Molecular Biology of the Complutense University of Madrid (academic year 2020-2021).
- Participation and obtaining the prize in the first edition of the contest "Fly with your History" (2015), organized by the Historical and Cultural Service of the Air Force.

- First prize in the category Games and Video Games on global health and antibiotic resistance, MicroMundo Symposium. (2021)
- Best Record of the Master in Biochemistry, Molecular Biology and Biomedicine (2020-2021).

### **C.7. Divuligation Activity.**

- Participation in the XIX Science Week of Madrid, in the development of the activity "DNA, our DNI". Faculty of Chemical Sciences, UCM (2019).
- Participation in the XX Science Week of Madrid, in the development of the activity "DNA is your ID, and in viruses?". (2020). In this edition, in addition, I gave one of the lectures, entitled: "*Big Data* in Biochemistry".
- Participation in the XXI Science Week of Madrid, in the development of the activity "DNA is your DNI, and in viruses?". (2021). In this edition, I also gave one of the lectures, entitled: "*Big Data* in Biochemistry".

### **C.8. Teaching Innovation Projects.**

- TITLE: *I.amAble: science (chemistry) within the reach of the whole society.*  
PRINCIPAL INVESTIGATOR: Universidad Complutense de Madrid-Innova Docencia Proyecto nº 73.  
MAIN RESEARCHER: Santiago Herrero Domínguez.  
DURATION: academic year 2016-2017.  
AMOUNT: 750 €.  
PARTICIPATION: development of inclusive workshops in several centers.
- TITLE: *I.amAble: science as a vehicle towards full inclusion.*  
FINANCING ENTITY: Universidad Complutense de Madrid-Innova Docencia Proyecto nº 166.  
PRINCIPAL INVESTIGATOR: Santiago Herrero Domínguez.  
DURATION: academic year 2017-2018.  
AMOUNT: 1.125 €.  
PARTICIPATION: development of inclusive workshops in several centers.
- TITLE: *I.amAble: learning in science at the service of educational inclusion.*  
FINANCIAL ENTITY: Universidad Complutense de Madrid-Innova Docencia Proyecto nº 52.  
PRINCIPAL INVESTIGATOR: Santiago Herrero Domínguez.  
DURATION: academic year 2018-2019.  
AMOUNT: 1.125 €.  
PARTICIPATION: development of inclusive workshops in several centers.
- TITLE: *I.amAble: learning and educational inclusion through scientific workshops.*  
FINANCING ENTITY: Universidad Complutense de Madrid-Innova Docencia Proyecto nº 117.  
PRINCIPAL INVESTIGATOR: Santiago Herrero Domínguez.  
DURATION: academic year 2019-2020.  
AMOUNT: no financing.  
PARTICIPATION: development of inclusive workshops in several centers.
- TITLE: *MicroMundo: an approach to the One Health perspective of Global Health through Service-Learning integrating different educational levels.*  
FINANCIAL ENTITY: Universidad Complutense de Madrid, call for Projects Learning-Service Complutense Project nº 22.  
PRINCIPAL INVESTIGATOR: Víctor Jiménez Cid.  
DURATION: academic year 2020-2021.  
AMOUNT: 650 €  
PARTICIPATION: design and development of informative activities in IES of Baccalaureate of the Community of Madrid.

**C.9. Teaching.**

- Teaching supporting collaborating student in Laboratory BBMII subject. Biochemistry degree, second year. Total hours: **30 h.**