

<b>Part A. PERSONAL INFORMATION</b>		<b>CV date</b>	Nov. 1 <sup>st</sup> 2021
First and Family name	José Ignacio Rodríguez Crespo		
Social Security, Passport, ID number	12373801P	Age	54
Researcher numbers	Researcher ID	Scopus 6701408703	
	Orcid code	0000-0002-2582-129X	
	Google Scholar	WI-0THCAAAAJ	

### A.1. Current position

Name of University/Institution	Universidad Complutense de Madrid		
Department	Bioquímica y Biología Molecular		
Address and Country	Fac. CC. Químicas		
Phone number	34-91-3944137	E-mail	<a href="mailto:jirodrig@quim.ucm.es">jirodrig@quim.ucm.es</a>
Current position	Full Professor	From	June 2010
Espec. cód. UNESCO	Bioquímica (2302) y Biología Molecular (230221)		
Keywords	Cannabinoids, Nitric oxide, protein acylation, dyneins.		

### A.2. Education

PhD	University	Year
Biochemistry	Universidad Complutense de Madrid	December 1994

### A.3. JCR articles, h Index, thesis supervised...

~62 peer-reviewed articles

h index: 28

citations: 4273

h index in the last 5 years: 16

citations in the last 5 years: 1171

Accepted/revised *Sexenios*: five (last one in 2020).

Two PhD theses supervised/cosupervised in the last ten years: Clara Aicart Ramos (2013) and Javier Merino Gracia (2016). One currently in process (Carlos Costas Insua).

### Part B. CV SUMMARY (max. 3500 characters, including spaces)

Graduated in Chemistry with a specialty degree in Biochemistry from the Complutense University in Madrid in 1990 and finished the studies with *extraordinary achievement award* (*Premio Extraordinario de Licenciatura*). PhD thesis from the Complutense University under the supervision of Prof. Francisco Gavilanes working on the immunogenic/structural properties of the surface proteins of Hepatitis B Virus. Henceforth, went through the PhD thesis oral defence on December 1994. On January 1995 joined the laboratory of Dr. Ortiz de Montellano at the University of California in San Francisco for almost three and a half years, the first two years with a *Ministerio de Educación* postdoctoral fellowship. At UCSF the research was focused on the characterization of the newly-discovered Nitric Oxide Synthases, performing structural and functional studies on all three isoforms of mammalian Nitric Oxide Synthases. Back in Spain joined the staff of Complutense University at the Dept. of Biochemistry and Molecular Biology in 1997, first as associate professor, then assistant professor and eventually as a *Ramón y Cajal Program* hired researcher. Subsequently, full professor at the Biochemistry and Molecular Biology Department since 2010. Departmental academic secretary since January 2018 and "catedrático" since March 2020. Advisor of six PhD theses and multiple final-year research projects for undergraduate students. In addition, direction as Principal Investigator of four Research Projects from the "*Plan Nacional*" (BMC2003-05034; BFU2006-05395; BFU2009-10442; BFU2012-37934), two research projects from the "*Comunidad de Madrid*" and one from the "*Universidad Complutense*".

## Part C. RELEVANT MERITS

### C.1. Publications in the last five years (including books)

1. Blázquez Ortiz, Cristina, Navarro Llorens, Juana María & **Rodríguez Crespo, José Ignacio**.  
Libro: 142 problemas de Ingeniería Genética resueltos paso a paso.  
ISBN: 9788413571454      Publicado 18.10.2021      Páginas 342  
ISBN Digital: 9788413576688
2. Costas-Insua, C., Moreno, E., Maroto, I. B., et al., **Rodríguez-Crespo, I.** & Guzmán, M.  
Identification of bip as a cb1 receptor-interacting protein that fine-tunes cannabinoid signaling in the mouse brain.  
J. Neuroscience 41 (38), 7924-7941 , (2021) cover article
3. Illescas, B. M., Pérez-Sánchez, A., Mallo, A., Martín-Domenech, A., **Rodríguez-Crespo, I.** & Martín, N. Multivalent cationic dendrofullerenes for gene transfer: synthesis and dna complexation.  
J. Material Chemistry B 8 (20), 4505-4515, (2020)
4. López-Rodríguez, J. C., Martínez-Carmona, F. J., **Rodríguez-Crespo, I.**, Lizarbe, M. A. & Turnay, J.  
Molecular dissection of the membrane aggregation mechanisms induced by monomeric annexin A2.  
Biochim. Biophys. Acta. 1865(6):863-873. (2018)
5. Costas-Insua, C., Merino-Gracia, J., Aicart-Ramos, C. & **Rodríguez-Crespo I.**  
Subcellular Targeting of Nitric Oxide Synthases Mediated by Their N-Terminal Motifs.  
Adv Protein Chem Struct Biol. 111:165-195. (2018)
6. Merino-Gracia, J., Zamora-Carreras, H., Bruix, M. & **Rodríguez-Crespo, I.**  
Molecular Basis for the Protein Recognition Specificity of the Dynein Light Chain DYNLT1/Tctex1: characterization of the interaction with activin receptor IIb.  
J. Biol. Chem. 291(40):20962-20975. (2016)
7. Merino-Gracia, J., Costas-Insua, C. Canales, M.A. & **Rodríguez-Crespo, I.**  
Insights into the C-terminal Peptide Binding Specificity of the PDZ domain of neuronal Nitric Oxide Synthase. Characterization of the Interaction with the tight-junction protein Claudin-3.  
J. Biol. Chem. 291(22):11581-95. (2016)
8. Aicart-Ramos, C., Sánchez-Ruiloba, L., Gómez-Parrizas, M., Zaragoza, C., Iglesias, T. y **Rodríguez-Crespo, I.**  
Protein Kinase D activity controls Endothelial Nitric Oxide synthesis.  
Journal of Cell Science 127:3360–3372 (2014)
9. Sánchez-Ruiloba, L., Aicart-Ramos, C., García-Guerra, L., Pose-Utrilla, J., **Rodríguez-Crespo, I.** & Iglesias, T.  
Protein Kinase D interacts with Neuronal Nitric Oxide Synthase and phosphorylates the activatory residue Serine1412.  
PLoS One 9(4):e95191 (2014)
10. Herranz, B., Zaragoza, C., Guijarro, B., Marquez, S., Serrano, I., Alique, M., Aicart-Ramos, C., **Rodríguez-Crespo I.**, Rodriguez-Puyol, M., Rodriguez-Puyol, D. & Saura, M.  
Integrin-linked kinase regulates vasomotor function by preventing endothelial nitric oxide synthase uncoupling: role in atherosclerosis.  
Circulation Research 110(3):439-449 (2012)

## **C.2. Research projects and grants as IP in the last ten years**

1. **Project Title:** Mecanismos de Regulación de la Actividad Celular de las Óxido Nítrico Sintetasas y caracterización de Nuevas Dianas Proteicas del ·NO.

**Funded by:** Ministerio de Ciencia e Innovación (nº de exp.: BFU2012-37934).

**Participants:** Universidad Complutense.

**From:** January 1<sup>st</sup> 2013 to December 31<sup>st</sup> 2015 (subsequently extended).

**Principal Investigator:** **José Ignacio Rodríguez Crespo.**

**Number of researchers in the group:** 4.

**Money assigned:** 128.000 € direct costs + 21.760 € indirect costs (17%).

2. **Project Title:** Post-translational mechanisms of activation and inhibition of Nitric Oxide Synthases at a cellular level.

**Funded by:** Ministerio de Ciencia e Innovación (nº de exp.: BFU2009-10442).

**Participants:** Universidad Complutense.

**From:** January 1<sup>st</sup> 2010 to Sept 31<sup>st</sup> 2013.

**Principal Investigator:** **José Ignacio Rodríguez Crespo.**

**Number of researchers in the group:** 3.

**Money assigned:** 160.000 € direct costs + 33.600 € indirect costs (21%).

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

None.

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

None.

## **C.5.**

Occasionally reviewer of research projects for the Spanish Plan Nacional and for the Comunidad Autónoma de Andalucía. Likewise, sporadically reviewer of international research projects for French and Polish agencies.

## **C.6.**

Member of the Sociedad Española de Bioquímica y Biología Molecular (SEBBM).

Member of Sociedad de Biofísica de España (SBE).

## **C.7.**

Currently Academic Secretary of the **Departamento de Bioquímica y Biología Molecular** at the Complutense University of Madrid. This newly merged department comprises Professors from the faculties of Medicine, Pharmacy, Optics, Veterinary sciences, Chemistry and Biology.