

Part A. PERSONAL INFORMATION		CV date	
		11/01/2021	
First and Family name	Ismael Mingarro		
Social Security, Passport, ID number	29017960X	Age	54
Researcher codes	WoS Researcher ID (*)	B-4745-2014	
	SCOPUS Author ID (*)	6701710656	
	Open Researcher and Contributor ID (ORCID) **	0000-0002-1910-1229	

(*) At least one of these is mandatory

(**) Mandatory

A.1. Current position

Name of University	University of Valencia		
Department	Biochemistry and Molecular Biology		
Address and Country	Dr. Moliner 50, 46.100, Burjassot, Valencia (Spain)		
Phone number	+34963543796	E-mail	mingarro@uv.es
Current position	Full Professor	From	01/06/2011
Key words	Membrane proteins; protein structure; folding; apoptosis; proteomics		

A.2. Education

PhD	University	Year
BSc. Biology	University of Valencia	1989
MSc. Biochemistry & Molecular Biology	University of Valencia	1990
PhD Biochemistry	University of Valencia	1994

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

“SEXENIOS” “Comisión Nacional Evaluadora de la Actividad Investigadora”: 5. Periods: 1990-1995 (1st); 1996-2001 (2nd); 2002-2007 (3rd); 2008-2013 (4th), 2014-2019 (5th).

JCR ARTICLES: Pubmed **75**. **Q1: 52 (D1 14)**, being first or corresponding author in **31** of them, source ISI WoK.

H-INDEX: **28** source *Web of Science* (WoS); **35** source *Google Scholar* (GS)

Google Scholar	Cited by		VIEW ALL
	All	Since 2016	
 Ismael Mingarro (ORCID:0000-0002-1910-1229) Professor Biochemistry and Molecular Biology Verified email at uv.es - Homepage Membrane proteins folding structure apoptosis viral proteins	Citations	2832	967
	h-index	35	18
	i10-index	62	36

THESIS SUPERVISED (SINCE JAN 1, 2011):

11. Dr. Brayan Grau (01/03/2021); Dr. Carlos Baeza-Delgado (25/09/2017); Dr. Carlos A. Martínez-Garay (04/03/2016); Dr. Vicente Andreu-Fernández (19/05/2015); Dr. Manuel Bañó-Polo (12/07/2013); Dra. Silvia Tamborero (05/07/2011); Dr. Luis Martínez-Gil (13/02/2009); Dra. Dunja Lukovic (23/03/2007); Dra. Ana Saurí (27/04/2006); Dra. Ana García-Sáez (10/06/2005); Dra. Mar Orzáez (15/12/2003).

Three of them (Dr. Bañó-Polo; Dr. Martínez-Gil; Dra. Saurí) best Thesis award “Premio Extraordinario de Doctorado” University of Valencia.

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

Professor in Biochemistry and Molecular Biology and current ViceDirector of the Doctorate School at the University of Valencia.

I received my Ph.D. (1994) in Biochemistry and did a short training stay at Richard HOUGHTEN's lab at the Torrey Pines for Molecular Studies (1994) working on combinatorial chemistry. I pursued my post-doctoral studies (EMBO Long term Fellowship) with Gunnar VON HEIJNE (1995-1997) at the Arrhenius Laboratories Stockholm University, where I studied the folding of membrane proteins in micellar and biological membranes. More recently, I was Visiting (invited) Professor with Arthur E. JOHNSON at the Texas A&M University (2009), where I learnt molecular techniques to study protein biogenesis.



Since 2000 my research team focuses on basic aspects of the folding and assembly of proteins in lipid membranes.

Part C. RELEVANT MERITS (*chronological order*)

C.1. Publications (10 selected from the last 5 years)

1.- García-Murria MJ, Duart G, Grau B, Díaz-Beneitez E, Rodríguez D, Mingarro I, Martínez-Gil L.

Viral Bcl2s' transmembrane domain interaction with host Bcl2 proteins to control cellular apoptosis.

Nat. Commun. (2020) 11(1):6056 IF (2019): 12.121 (D1 6/71)

Selected as "Artículo del mes" Sociedad Española de Bioquímica y Biología Molecular SEBBM  (<https://www.sebbm.es/web/es/divulgacion/articulo-mes/4370-viral-bcl2s-transmembrane-domain-interact-with-host-bcl2-proteins-to-control-cellular-apoptosis>)

2.- Lucendo E, Sancho M, Lolicato F, Javanainen M, Kulig W, Leiva D, Duart G, Andreu-Fernández V, Mingarro I, Orzáez M.

Mcl-1 and Bok transmembrane domains: Unexpected players in the modulation of apoptosis.

Proc. Natl. Acad. Sci. U.S.A. (2020) 117(45):27980-8 IF(2019): 9.412 (Q1 8/71)

3.- Duart G, García-Murria MJ, Grau B, Acosta-Cáceres JM, Martínez-Gil L, Mingarro I. SARS-CoV-2 envelope protein topology in eukaryotic membranes.

Open Biol. (2020) 10(9):200209 IF (2019): 4.931 (Q1 60/297)

4.- Bañó-Polo M, Baeza-Delgado C, Tamborero S, Hazel A, Grau B, Nilsson I, Whitley P, Gumbart JC, von Heijne G, Mingarro I.

Transmembrane but not soluble helices fold inside the ribosome channel

Nat. Commun. (2018) 9(1):5246 IF: 11.878 (D1 5/69)

Selected as "Papers of the Month" by the 'Sociedad de Biofísica de España'  (<http://biofisica.info/transmembrane-but-not-soluble-helices-fold-inside-the-ribosome-tunnel/>)

5.- Pastor-Cantizano N, García-Murria MJ, Bernat-Silvestre C, Marcote MJ, Mingarro I, Aniento F.


N-Linked Glycosylation of the p24 Family Protein p24 δ 5 Modulates Retrograde Golgi-to-ER Transport of K/HDEL Ligands in Arabidopsis

Mol. Plant (2017) 10(8):1095-1106 IF: 9.326 (D1 16/293)

6.- Andreu-Fernández V, Sancho M, Genovés A, Lucendo E, Todt F, Lauterwasser J, Funk K, Jahreis G, Pérez-Payá E, Mingarro I, Edlich F, Orzáez M. * Co-corresponding authors

Bax transmembrane domain interacts with prosurvival Bcl-2 proteins in biological membranes.

Proc. Natl. Acad. Sci. U.S.A. (2017) 114(2):310-5 Índice de Impacto: 9.504 (D1 5/64)

Selected as "Artículo del mes" Sociedad Española de Bioquímica y Biología Molecular SEBBM  (<https://www.sebbm.es/web/es/divulgacion/articulo-mes/2056-bax-transmembrane-domain-interacts-with-prosurvival-bcl-2-proteins-in-biological-membranes>)

7.- Martínez-Gil L, Vera-Velasco NM, Mingarro I.

Exploring the Human-Nipah virus protein-protein interactome.

J. Virol. (2017) 91(23):e01461-17 IF: 4.368 (Q1 8/35)

8.- Andreu-Fernández V, García-Murria MJ, Bañó-Polo M, Martín J, Monticelli L, Orzáez M, Mingarro I.


The C-terminal domains of apoptotic BH3-only proteins mediate their insertion into distinct biological membranes.

J. Biol. Chem. (2016) 291(48):25207-16 IF: 4.125 (Q2 74/286)

9.- Baeza-Delgado C, von Heijne G, Marti-Renom MA, Mingarro I.

Biological insertion of computationally designed short transmembrane segments.

Sci. Rep. (2016) 6:23397. IF: 4.259 (Q1 10/64)

Selected as "Papers of the Month" by the 'Sociedad de Biofísica de España'  (<http://biofisica.info/baeza-delgado-mingarro-sci-rep-6-23397/>).

10.- Feng Z, Xue F, Xu M, Chen X, Zhao W, García-Murria MJ, Mingarro I, Liu Y, Huang Y, Jiang L, Zhu M & Tao X.

The ER-membrane transport system is critical for intercellular trafficking of the NSm movement protein and *Tomato Spotted Wilt Topovirus*.



PLoS Pathog. (2016) 12(2):e1005443.

IF: 6.608 (D1 2/33)

C.2. Selected Research projects and grants (as Principal Investigator)

- Grant: PROMETEO/2019/065 (*Excellence Groups*)

Title: MEMBDEATH: new ground in fight against cancer

PI: *Ismael Mingarro*

Funding: Generalitat Valenciana

Duration: 01/01/2019 – 31/12/2022

Budget: 197.155 €

- Grant: BFU2016-79487-P

Title: Understanding membrane protein folding and biogenesis

PI: *Ismael Mingarro*

Funding: Ministerio de Economía y Competitividad

Duration: 30/12/2019 – 29/12/2020

Budget: 175.000 € (direct cost)

- Grant: PROMETEOII/2014/061 (*Excellence Groups*)

Title: Modulación de interacciones proteína-proteína en apoptosis como diana terapéutica en procesos tumorales

PI: *Ismael Mingarro*

Funding: Generalitat Valenciana

Duration: 01/01/2014 – 31/12/2017

Budget: 251.730 €

- Grant: BFU2012-39482/BMC

Title: Membrane Protein Biology

PI: *Ismael Mingarro*

Funding: Ministerio de Economía y Competitividad

Duration: 01/01/2013 – 31/12/2015

Budget: 140.000 € (direct cost)

- Grant: BFU2009-08401/BMC

Title: Membrane Protein Expression, Folding and Dynamics

PI: *Ismael Mingarro*

Funding: Ministerio de Ciencia e Innovación

Duration: 01/01/2010 – 31/12/2012

Budget: 170.000 € (direct cost)

C.3. Participación en contratos, méritos tecnológicos o de transferencia

- CONTRATO DE INVESTIGACION para el “Estudio del efecto del CPC -cloruro de cetilpiridinio- en la integridad de las VLP -*virus like particles*- del SARS-CoV-2 entre DENTAID S.L. y la UNIVERSITAT DE VALENCIA, ESTUDI GENERAL”.

Investigador Principal: Ismael Mingarro

Fecha de inicio: 16/11/2020; fecha fin: 15/05/2021.

Cuantía: 9.000€

C.4. Patents

Inventors: Nieva J.L., Gómara M.J., Lorizate M., Huarte N., Mingarro I. & Pérez-Payá E.

Title: Non-poteolysable oligopeptides that inhibit glycoprotein gp41 of the AIDS virus

Number: P200503259

Priority Country: Spain

Date: 30/12/2005

Application filed by: Universidad del País Vasco / Universitat de València

Extended to: Estados Unidos y Europa. Patent Number: WO2007077278-A1; EP1970379-A1; ES2325644-A1; US2010197606-A1; ES2325644-B1; EP1970379-B1; US8110545-B2; ES2366579-T3 “*New oligopeptides that inhibit fusogenic potential of gp41 of human immunodeficiency virus, useful for treatment and prevention of acquired immune deficiency syndrome.*”

C.5. Institutional responsibilities

- Academic Secretary Doctorate School, University of Valencia: 09/2015-08/2019

- Vicedirector Doctorate School (<https://www.uv.es/escola-doctorat>), University of Valencia: 09/2019-present

- Member of the Advisory Board of the Spanish Society for Biochemistry and Molecular Biology SEBBM (<https://www.sebbm.es/web/en/>): 09/2016 - 09/2020

C.6. International representative and consortia

Consortium: Marie Curie Host Fellowships for Early Stage Training (EST)

Funding: European Union Research Policy & Funding

Subject: Membrane Biology

Date: 2005-2008

Consortium: COST Chemistry Working Group (COST Action D22)

Funding: European Commission.

Subject: Principles of Membrane Protein Folding and Stability

Date: 2000-2006

C.7. Evaluation panels

- *Panel member as a referee*: FRIMEDBIO program for the Research Council of Norway.
Entidad de la que depende: Research Council of Norway
Subject area: Medicine, Health Sciences and Biology Calls: 2013, 2014, 2015

- PhD Committees: 44 in Spanish Universities and 2 as *Opponent* at the Stockholm University.

- Activity: Selección de Personal Funcionario del CSIC (Tribunal nº 5).

Title: PROFESORES DE INVESTIGACION. Especialidad: BIOLOGIA Y BIOMEDICINA

Date: 2014 (“Orden ECC/1579/2014, de 31 de julio (BOE de 4 de sept.)”)

Grant evaluator for: - Czech Science Foundation (Czech Republic); - FIS (Instituto de Salud Carlos III); Agencia Nacional de Promoción Científica y Tecnológica (Argentina); - ANEP (Programa Torres Quevedo); - Agence Nationale de la Recherche (France); - Canada Foundation for Innovation; - Research Council of Norway; - Agencia Nacional de Investigación e Innovación (Uruguay); - Austrian Science Foundation; - Israel Science Foundation; - Biotechnology and Biological Science Research Council (UK); National Research Foundation of Korea.

C.8. Scientific Meetings organized (last 10 years)

- *XIII International Congress of the Spanish Biophysical Society* Date: 19-21 June 2013

- *17th Congress of the European Section of the International Society on Toxinology* Date: 11-15 September 2011

- *Reunión de la Red Valenciana de Genómica y Proteómica* Editions: 2009-12

C.9. Memberships of scientific societies

- Spanish Biochemistry and Molecular Biology Society (SEBBM); - Spanish Biophysical Society (SBE); - American Society for Biochemistry and Molecular Biology (ASBMB); - Biophysical Society; - Protein Society

C.10. Journal Academic Editor

Cell Stress <http://www.cell-stress.com/about-us/editorial-board/>

C.11. Journal Referee (56 reviews verified at Publons)

Verified reviews

(8) Plos One	WOS	(6) Biochimica et Biophysica Acta (BBA...	WOS
(4) BMC Biology	WOS	(4) Journal of Biological Chemistry	WOS
(3) Journal of Cell Science	WOS	(3) Journal of Proteomics	WOS
(3) Journal of the American Chemical S...	WOS	(3) Proteins: Structure, Function, and Bi...	WOS
(2) Archives of Biochemistry and Bioph...	WOS	(2) Biochemistry	WOS
(2) FEBS Open Bio	WOS	(2) The FEBS Journal	WOS
(1) ACS Chemical Biology	WOS	(1) Biophysical Journal	WOS
(1) Chemistry and Physics of Lipids	WOS	(1) Journal of Lipid Research	WOS
(1) Journal of Molecular Biology	WOS	(1) Journal of Structural Biology	WOS
(1) Journal of Virology	WOS	(1) Molecular Membrane Biology	WOS
(1) Nature Communications	WOS	(1) Open Biology	WOS
(1) Proceedings of the National Acade...	WOS	(1) Protein Science	WOS
(1) Virology Journal	WOS	(1) Virus Research	WOS

C.12. Awards

- *Third European contest for Young scientist on Challenging Proteins* (2005), Amersham Bioscience. 3rd Dunja Lukovic (PhD student).

- *III Edición Premio Laboratorios SALVAT*, Fundación SALVAT Inquifarma award to the best Project in Biomedicine (2001). “Caracterización de dianas moleculares para la regulación de la apoptosis celular. Desarrollo de ensayos de alto rendimiento para la identificación de moduladores con fines terapéuticos en cáncer y neurodegeneración”.