



## Part A. PERSONAL INFORMATION

		<b>CV date</b>	January 2026
First name	Irene		
Family name	Díaz Moreno		
Gender	Female	Birth date	09/04/1977
e-mail & web	<a href="mailto:idiazmoreno@us.es">idiazmoreno@us.es</a>	<a href="https://biointeractomics.iiq.us-csic.es">https://biointeractomics.iiq.us-csic.es</a>	
Open Researcher and Contributor ID (ORCID) (*)	0000-0002-5318-7644		

### A.1. Current position

Position	Full Professor of University		
Initial date	November 2018		
Institution	University of Seville (US)		
Department/Center	Institute for Chemical Research (IIQ) – cicCartuja		
Country	Spain	Teleph. number	954489513
Key words	Biointeractomics, Biomolecular Interactions, Molecular Recognition, Proteins, Structural Biology, DNA Damage Response, Diseases		

### A.2. Previous positions

Period	Position/Institution/Country/Interruption cause
2010 - 2018	<b>Associate Professor</b> / IIQ – cicCartuja, US – CSIC / ES
2007 - 2010	<b>Assistant Professor</b> / Institute for Plant Biochemistry and Photosynthesis (IBVF) – cicCartuja, US – CSIC / ES
2005 - 2007	<b>EMBO Postdoctoral Fellow</b> / National Institute for Medical Research (NIMR – MRC) / UK
2001 - 2005	<b>FPU PhD fellow</b> / IBVF – cicCartuja, US – CSIC / Spain
Sep 2000 – Dec 2000	JAE-Intro CSIC Fellow / Biological Research Centre (CIB) / ES
Sep 1999 – Sep 2000	MECD Collaboration Fellow / IBVF – cicCartuja, US – CSIC / ES

### A.3. Education

Degree	University	Year
Ph.D. in Biological Sciences - <i>EU mention</i>	University of Seville	2005
M.Sc. in Biochemistry (1 <sup>st</sup> class mark)	University of Seville	2004
M.Sc. in Biology (1 <sup>st</sup> class mark)	University of Seville	2000

## Part B. CV SUMMARY

Irene Díaz-Moreno (Sevilla, 1977) is a Full Professor of Biochemistry and Molecular Biology at the University of Seville (US), working at the Institute of Chemical Research (IIQ) in the Scientific Research Centre *Isla de la Cartuja* (cicCartuja), a joint centre between US, the National Research Council (CSIC) and the Andalusian Government (JA).

At cicCartuja, her research focuses on the post-transcriptional and post-translational regulation of cellular responses to DNA damage, by characterizing the recognition mode between mitochondrial cytochrome *c* and several histone chaperones by NMR and MD simulations (MINECO Projects, BFU2015-71017, PGC2018-096049-B, PID2021-126663NB-I00, PID2024-157414NB-I00 and DTS25/00058). In addition, she has overseen the development of a new line of research framed within the Projects for Excellence Research of JA (P07-CVI-02896, P11-CVI-07216, P18-FR-3487). These projects focussed on the role of disordered linkers and RNA-binding domains in multivariant molecular contacts that govern liquid-liquid phase transitions leading to membrane-less organelle assembly.

As a result of these projects, Dr. Díaz-Moreno has established productive international collaborations with leaders such as Dr. Jacqueline A. Wilce (Monash University, AU), Dr. Myriam Gorospe (National Institute of Aging-NIH, USA) and Prof. Maik Hüttemann (Wayne State University, USA). Part of these studies were carried out thanks to projects performed in European Infrastructures—e.g. iNEXT-Discovery—to the General Services of the US (CITIUS) and to the Biomolecular Interactions Platform at cicCartuja (BIP; <http://bip.ciccartuja.es/home/>) in whose design Dr. Díaz-Moreno has been actively involved.

Her extensive experience in molecular interactions has facilitated collaboration with this productive sector through contracts with several companies such as *Bruker Spain S.L.*, *IESMAT S.A.*, *TA Instruments*, *ExpoenteDecada*, *González-Byass* and *MAHOU*.



To carry out these projects, Dr. Díaz-Moreno has already supervised 8 PhD students and 10 postdoctoral researchers. At present she leads the training of 6 PhD and Ms students, with other members of the *Biointeractomics* group ([www.iiq.us-csic.es/en/biointeractomics](http://www.iiq.us-csic.es/en/biointeractomics)).

Dr. Díaz-Moreno's expertise was consolidated during a 2-year stay (2005-07) at the "National Institute for Medical Research" UK), after obtaining an EMBO Postdoctoral fellowship with Dr. A. Ramos. The initial stages of Dr. Díaz-Moreno were established during her thesis (2001-05) at IBVF, under the supervision of Prof. Miguel A. De la Rosa, with a fellowship from the Spanish Ministry of Education. During this period, she spent in total 1 year at the University of Gothenburg (SE) and Leiden (NL) together with Prof. G. Karlsson and Prof. M. Ubbink respectively, supported by the European Network "The Transient Network".

She is the editor of two books entitled "Redox Proteins in Supercomplexes and Signalosomes" (Ed. CRC Press - Taylor & Francis Group, 2015) and "Weak Interactions in Molecular Machinery" (Ed. Frontiers in Molecular Biosciences - Structural Biology, 2018), and has published articles in scientific journals (*Nat Struct Mol Biol*, *Nat Comm*, *PNAS*, *NAR*, etc). She is also giving numerous talks at national and international congresses.

## Part C. RELEVANT MERITS

### C.1. Publications

Ten publications in the last years that reflect the scientific career of the author and her work in the field of post-transcriptional and post-translational modifications of RNA binding proteins and cytochrome *c*. Remarkably, 42 out of her 112 articles have been published in the last five years and she acts as first, last or corresponding author (\*) in 79 papers.

1. Multisite Phosphorylation of the AML-linked C-terminal of Nucleophosmin (NPM1) Orchestrates Protein Stability, DNA binding, and Charge Block-Driven Phase Separation. P Rivero-García, RF Giner-Arroyo, J Tamargo-Azpilicueta, A Telfer (...), MA De la Rosa, **I. Díaz-Moreno\***. *Nucleic Acids Res* (2026) *in press* – Impact Factor (IF): 13.1
2. Evolutionary Pro-to-Thr mutation in the intrinsically disordered domain of ANP32 family members modulates their target binding modes. B Baños-Jaime, AB Uceda, F Rivero-Rodríguez, MA Casado-Combreras, A Velázquez-Campoy (...), MA De la Rosa, **I. Díaz-Moreno\***. *Adv Sci* 12 (2025) e2415566 – IF: 14.6
3. Phosphorylation at the disordered N-end makes HuR accumulate and dimerize in the cytoplasm. B Baños-Jaime, L Corrales-Guerrero, G Pérez-Mejías, C Rejano-Gordillo, (...), MA De la Rosa, **I. Díaz-Moreno\***. *Nucleic Acids Res* 52 (2024) 8552 – IF: 16.6
4. Cytochrome *c* lysine acetylation regulates cellular respiration and cell death in ischemic skeletal muscle. PT Morse, G Pérez-Mejías, J Wan, AA Turner, I Márquez, (...), I Díaz-Moreno\*, M Hüttemann\*. *Nature Comm* 14 (2023) 4166 - IF: 17.7
5. Phosphorylation disrupts long-distance electron transport in cytochrome *c*. A Gomilla, G Pérez-Mejías, (...), MA De la Rosa, **I. Díaz-Moreno\***, P Gorostiza\*, M Giannotti\*, A Lagunas\*. *Nature Comm* 13 (2022) 7100 - IF: 17.7
6. Nucleus-translocated mitochondrial cytochrome *c* liberates nucleophosmin-sequestered ARF tumor suppressor by changing nucleolar liquid-liquid phase separation. K González-Arzola, A Díaz-Quintana, (...), MA De la Rosa, **I. Díaz-Moreno\***. *Nature Struct & Mol Biol* 29 (2022) 1024 - IF: 18.4
7. Novel insights into the mechanism of electron transfer in mitochondrial cytochrome *c*. G Pérez-Mejías, A Díaz-Quintana, A Guerra-Castellano, **I. Díaz-Moreno\***, MA De la Rosa\*. *Coord Chem Rev* 50 (2022) 214233 - IF: 22.3
8. Oxidative stress is tightly regulated by cytochrome *c* phosphorylation and respirasome factors in mitochondria. A Guerra-Castellano, A Díaz-Quintana, G Pérez-Mejías, CA Elena-Real, K González-Arzola, SM García-Mauriño, MA De la Rosa, **I. Díaz-Moreno\***. *Proc Natl Acad Sci USA* 115 (2018) 7955–7960 - IF: 9,6
9. Long distance electron transfer through the aqueous solution between redox partner proteins. A Lagunas, A Guerra-Castellano, A Nin-Hill, **I. Díaz-Moreno**, MA De la Rosa, J Samitier, C Rovira, P Gorostiza\*. *Nature Commun* 9 (2018) 5157–5160 - IF: 11,9
10. Structural basis of mitochondrial dysfunction in response to cytochrome *c* phosphorylation at position 48. B Moreno-Beltrán, A Guerra-Castellano, (...), MA De la Rosa, P Turano, **I. Díaz-Moreno\***. *Proc Natl Acad Sci Plus USA* 114 (2017) E3041–E3050 - IF: 9,7

### C.2. Congresses

*Invited Lectures* - ca 72 talks, listing those addressed by Dr. Díaz-Moreno in the recent years:

**2025** 1) 31<sup>st</sup> FAOBMB Conference, Busan (KR), [FEBS Worldwide Lecture](#); 2) 15<sup>th</sup> EBSA Congress, Rome (IT); 3) Protean Joint Meeting - SIB, Brescia (IT); 4) Seminar at the University of Padova (IT)

**2024** 1) Integrative Structural Biology Symposium, Barcelona (ES); 2) SEBBM Congress, A Coruña (ES); 3) FEBS Advanced Course, Carcavelos & Oeiras (PT); 4) Seminar at the Institute of Molecular Medicine (IMM), Lisbon (PT)

**2023** 1) LIX SAIB Congress, Rosario (AR), [Opening Lecture Alberto Sols \(PL\)](#); 2) MAC 2023, Coimbra (PT); 3) 47<sup>th</sup> FEBS Congress, Tours (FR); 4) XVII SBE Congress, Casteldefells (ES); 5) MORSBRI Zaragoza (ES); 6) BIR Symposium Barcelona (ES); 7) Ramon Areces Foundation Sevilla (ES); 8) Seminars at Oxford University (UK) and ITQB, Lisbon (PT)

**2022** 1) 21<sup>st</sup> EBEC, Aix-en-Provence (FR); 2) Croatian Biochemical Society Congress, Brela (HR), [FEBS National Lecture](#); 3) IUBMB / FEBS Joint Meeting, Spetses (GR); 4) XVIII Reunión Bial de la RSEQ, Granada (ES); 5) IUBMB-FEBS Focused Meeting, Sevilla (ES); 6) Seminars at IRB, Barcelona & IQFR, Madrid (ES)

**2021** 1) Wayne State University, Detroit (USA); 2) Bioquímica en Movimiento, Cáceres (ES)

**2019** 1) NMR R-LRB ICTS Madrid (ES); 2) XII Edition "Manuel Rico" NMR School, Jaca (ES)

**2018** 1) National Univ. of Singapore, (SG) 2) IUBMB Congress, Seoul (KR); 3) 2<sup>nd</sup> ARBRE Plenary Meeting (EU-COST), Warsaw (PL); 4) 16<sup>th</sup> Iberian Peptide Meeting, Barcelona (ES); 5) ISBMB Annual Meeting, Rehovot (IL), [Commemorative Lecture](#); 6) Materials Research Society Meeting, Boston (USA)

**2017** 1<sup>st</sup> ARBRE Plenary Meeting (EU-COST), Oporto (PT)

**2016** 1) 16<sup>th</sup> IUBMB Conference, Vancouver (CA), [IUBMB Lecture](#); 2) CCPN Conf., Buxton (UK); 3) 5<sup>th</sup> Int. Iberian Biophysics, Porto (PT); 4) iNEXT Users Meeting, Alcalá Henares (ES)

[Responsibility in Organization of Scientific Meetings](#)

**2024** co-Chair VII Biennial Meeting GEQB-RSEQ

**2023** co-Chair International Symposium of Ramon Areces' Foundation

**2023** Chair FEBS Young Scientists Forum

**2022** Chair IUBMB Focused Meeting / FEBS Workshop

**2017** Chair XVI Congress of the Spanish Biophysical Society (SBE)

**2015** Chair IX Network Meeting: Structure and Function of Proteins

### C.3. Selected Research Projects and Grants

- Exploring post-translational modifications of nucleophosmin and cytochrome c in acute myeloid leukemia: a structural approach (PID2024-157414NB-I00). Entity (E): Spanish Ministry of Science, Innovation and Universities (MICIU) – Grant (G): €412.500; Principal investigator (PI): **I. Díaz-Moreno** – From Sep 2025 to Aug 2028
- Structural and functional approach to the cytochrome c-centred interactomic network in mitochondria-nucleus crosstalk (PID2021-126663NB-I00). E: MICIU – G: €240.250; PI: **I. Díaz-Moreno** – From Jan 2022 to Sep 2025
- Structural and functional approaches to the molecular mechanisms underlying cytochrome c-dependent regulation of histone chaperones upon DNA damage (PGC2018-096049-B). E: MICIU - G: €190.575; PIs: **I. Díaz-Moreno** & M.A. De la Rosa – From Jan 2019 to Dec 2021
- Biointeractomics of DNA damage repair under homeostatic and pathological conditions. E: Ramon Areces Foundation - G: €112.000; PI: **I. Díaz-Moreno** – From Jun 2021 to Jun 2024
- Fuzzy interactions between RNA binding proteins in neurodegenerative disorders (P18-FR-3487). E: Andalusian Government (JA) - G: €115.000; PI: **I. Díaz-Moreno** – From Jan 2020 to Jun 2023
- Droplet organelle assembly by RNA binding proteins in neurodegenerative disorders (US-1254317). E: JA - G: €80.000; PI: **I. Díaz-Moreno** – From Feb 2020 to Apr 2022
- Between atom and cell: integrating molecular biophysics approaches for biology and healthcare (MOBIEU). E: European Cooperation in Science and Technology - CA COST Action (CA15126) - G: €605.000; PI: **I. Díaz-Moreno** - From Apr 2016 to Apr 2020

### C.4. Selected Contracts, Technological or Transfer Merits

#### Contracts

- La **Huella Digital** de la Cerveza Mahou-San Miguel por RMN. Contrat with MAHOU S.A. // G: €114.466,48; PI: **I. Díaz-Moreno** – From Jan 2023 to Jun 2024
- Promoting Interferometry Techniques. Contract with ExpoenteDecada LDA // G: €14.000; PI: **I. Díaz-Moreno** – From Dec 2020 to Nov 2022
- La **Huella Digital** del Jerez mediante RMN. Contract with Bodegas González-Byass SLU // G: €96.231; PI: M.A. De la Rosa – From Dec 2019 to Jun 2021



- Promoting Calorimetry Techniques: NanoITC and Nano DSC. Contract with Waters Cromatografía S.A. // G: €9.680; PI: M.A. De la Rosa – From Oct 2015 to Aug 2019
- Promoting HORIBA Scientific SPR Imaging Instruments. Contract with HORIBA Jobin Yvon SAS // G: €32.000; PI: M.A. De Rosa – From Nov 2013 to Nov 2016
- Technical and Scientific Synergy with Bruker Spain S.A. Contract with Bruker España S.A. // G: €110.000; PI: M.A. De Rosa – From Dec 2012 to Dec 2015

#### Patents

- Nucleic Acid Aptamer for Treatment of Liver Cancer (2024). M.L. Martínez-Chantar & I. Díaz-Moreno *et al.*, European Patent Application EP24382233.5
- Device and method for the production of aerodynamically stabilized, electrified microscopic jets for the transport of samples. Inventors: A. Gañán-Calvo, (...), I. Díaz-Moreno, (...), H. Chapman, S. Bajt. Application Date: 22/08/2017; App. No. 1738233.7 / Patent No.1559

### C.5. Other

#### Experience in Editorial Duties and Evaluation Processes

- 2023** – Editor-in-Chief of *BioFactors* journal from IUBMB and edited by Wiley
- 2016** – Vice-Chair of Evaluation Panels for MSC Actions (H2020 and Horizon Europe)
- 2016** – Expert on evaluating ERC Advanced Grants
- 2020** – Member of the Evaluation Board for the of Spanish Research Activity – CNEAI
- 2016** – Expert on evaluating projects for the Spanish Research Agency
- 2016** – Editorial Board Member: *IUBMB Life*, *JBIC*, *FEBS Open Bio*, *Front Mol Biosci*
- 2013** – Member of International PhD Juries: Univ. of Leiden (NL), Univ. of Naples (IT), Univ. Nova de Lisboa (PT) and Stockholm Univ. (SE)
- 2018 – 2020** Member of the Evaluation Board of the Spanish PhD Fellowships – ANECA
- 2014 – 2015** Expert of EU-MSCA Fellowships – Life Sciences Evaluation Panel
- 2009 – 2015** Member of the IUBMB Wood-Whelan Research Fellowships Committee

#### Boards of Scientific Societies

- 2026 – 2028** Chair of the FEBS Excellence Awards and Fellowships Committee & Member of the FEBS Executive Committee & FEBS Trustee
- 2022 – 2026** Vice-President of the SEBBM
- 2018 – 2025** Chair of the Careers of Young Scientists Committee
- 2021 – 2027** Member of the IUBMB Committee of Congresses and Focus Meetings
- 2021 – 2027** Member of the IUBMB Committee of Education and Training
- 2016 – 2021** Vice-President of the SBE
- 2015 – 2021** Chair of the IUBMB Nominating Committee
- 2015 – 2018** Member of the FEBS Advanced Courses Committee
- 2012 – 2016** Executive Member of the SEBBM

#### Prizes and Awards

- 2015** Pérez-Payá Young Scientist Prize, awarded by the SBE
- 2015** Bruker-Spain NMR Prize, awarded for outstanding achievements in NMR
- 2014** Manuel Losada Young Investigator Prize, awarded by Spanish Cajasol Foundation
- 2008** Young Investigator Award by the Royal Academy of Sciences of Seville
- 2005** European Ph. D Award with Special Distinction 2004/2005 by the University of Seville
- 2005** Young Scientist Award at VIth European Symposium of the Protein Society

#### Supervision of PhD Fellows

- 2026** – FPI-PhD student (D Sánchez Pulido); thesis defence: 2030
- 2025** – FPU-PhD student (P Rivero García); thesis defence: 2029
- 2025** – JA-PhD student (J Hiniesta Valero); thesis defence: 2029
- 2024** – Industrial-PhD student (A Fernández Veloso); thesis defence: 2027
- 2024** – FPU-PhD student (J Tamargo Azpilicueta); thesis defence: 2027
- 2020** – FPI-PhD student (RL Giner Arroyo); thesis defence: 2026
- 2021 – 25** US-PhD student (B Baños Jaime); summa *cum laude*
- 2019 – 24** FPU-PhD student (MA Casado-Combreras); summa *cum laude*
- 2016 – 24** FPU-PhD student (A Velázquez-Cruz); summa *cum laude*
- 2018 – 23** FPU-PhD student (G Pérez-Mejías); summa *cum laude* - *international mention*
- 2014 – 20** FPU-PhD student (F Rivero-Rodríguez); summa *cum laude*
- 2013 – 17** US-PhD student (CA Elena-Real); summa *cum laude*
- 2010 – 15** FPU-PhD student (JB Moreno-Beltrán); summa *cum laude* - *international mention*
- 2009 – 13** JA-PhD student (I Cruz-Gallardo); mark: summa *cum laude*
- 2008 – 12** CSIC-PhD student (RM Scheiba); mark: summa *cum laude*