

Part A. Personal Information

DATE	25/08/2018
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Surname(s)	Jiménez Reinoso	
Forename	Anaïs	
ID number	02673418-J	
Sex	Female	
Age	30	
Researcher codes	WoS Researcher ID (*)	K-2453-2014
	SCOPUS Author ID(*)	55368365300
	Open Researcher and Contributor ID (ORCID)	0000-0001-8229-1881

(*) At least one of these is mandatory

A.1. Current position

Professional Category	Postdoctoral Researcher	
UNESCO Code	2412, 2407.01, 2302.16 (Immunology, Cellular biology, Biochemistry)	
Key Words	Complement system, C3, lymphocytes, TCR, congenital immunodeficiencies.	
Name of the University/ Institution	Complutense University	
	Department/ Centre	Immunology, Ophthalmology and ENT/ School of Medicine
	Full Address	Calle Dr. Severo Ochoa, 9
	Email Address	ajreinoso@med.ucm.es
	Phone Number	+34913941640
Start date	March 1, 2018	

A.2. Education (title, institution, date)

Year	University	Degree	Title
2010	Autónoma Univ.	Graduate	Biology
2011	Complutense Univ.	Masters	Biochemistry, Molecular Biology and Biomedicine
2017	Complutense Univ.	PhD	Biochemistry, Molecular Biology and Biomedicine

A.3. Indicators of Quality in Scientific Production (See the instructions)

Total number of citations: 40
Average Citations per Article: 6.67
Total number of publications in Q1 / D1: 8 / 5
h-index: 3
Theses supervised: 0
Number of publications (Articles/Reviews): 11

Part B. Free Summary of CV (Max. of 3.500 characters, including spaces)

<p>Scientific trajectory:</p> <p>Mar 2018-present: Postdoctoral researcher, Complutense University of Madrid (Spain).</p> <p>Feb 2012-Jul 2017: PhD student, Biochemistry, Molecular Biology and Biomedicine, Complutense University of Madrid (Spain).</p> <p>Nov 2011-Feb 2012: Research Student, Centro de Biología Molecular Severo Ochoa, Madrid (Spain).</p> <p>Nov 2010-Sep 2011: Master Thesis Project, National Microbiology Centre, Instituto de Salud Carlos III, Madrid (Spain).</p> <p>Sep 2009-Jul 2010: Degree Project, Health Research Institute, Fundación Jiménez Díaz, Madrid, (Spain).</p> <p>Jul 2009-Sep 2009: Business Practices, Health Research Institute, Fundación Jiménez Díaz, Madrid, (Spain).</p>

Main Scientific/Technical Achievements:

During my PhD I was focused on the study of the impact of plasma C3 deficiency in leukocyte biology. We demonstrated that plasma C3 is essential for the development of memory B but not T, lymphocytes, in a plasma level-dependent manner, and showed that very low plasma C3 levels did not associate with lower C3-fragment intracellular expression.

Additionally, as a part of other research interests of our lab, I have participated in the description of other primary immunodeficiencies like one new CD247 deficiency (Marin et al., 2017), and the first Bcl-10 (Torres et al., 2014) and IRF4 (Bravo et al., 2018) deficiencies.

Interests and medium / long-term aims of research line:

To study the possible roles played by plasma and intracellular complement proteins, particularly C3 and C3 fragments, in lymphocyte development and function, through the samples of patients with complement immunodeficiencies like primary or secondary C3 deficiency. To achieve these aims, we will use cell biology (flow cytometry, immunofluorescence), molecular and biochemical techniques, as well as cultures of immortalized patient-derived T (HTLV-1) and B (EBV) cell lines.

Expertise:

Molecular Biology: PCR, sequencing, electrophoresis.

Biochemistry: Western blotting, immunoprecipitation.

Cell culture: HeLa, EA.hy926, HUVEC, PBL, HTLV-1, HVS, EBV, Daudi, K562, HPB-ALL, Jurkat, Allogeneic Feeder, CHO, B95.8, OP9.

Cell biology: Flow cytometry, in vitro proliferation assays, transfection by electroporation, fluorescence and confocal microscopy, T and B cell immortalization, gene silencing by shRNA knock-down.

Software: Office, GraphPad Prism, FlowJo, CellQuest Pro, ImageJ, Endnote, Adobe Illustrator, Adobe Photoshop, Adobe InDesign, SPSS, BioEdit, ChromasPro.

Databases: NCBI, Ensembl, HGNC.

Part C. Relevant accomplishments

C.1. Publications

1. Marin AV, Cárdenas PP, **Jiménez-Reinoso A**, Muñoz-Ruiz M, Regueiro JR. Lymphocyte integration of complement cues. (2018) Semin Cell Dev Biol. Mar 8. pii: S1084-9521(17)30135-0. doi: 10.1016/j.semcd.2018.02.005. [Epub ahead of print] **IF: 6.14**.
2. Bravo García-Morato M, Aracil Santos FJ, Briones AC, Blázquez Moreno A, del Pozo Maté A, Domínguez-Soto A, Beato Merino MJ, del Pino Molina L, Torres Canizales J, Marin AV, Vallespín García E, Feito Rodríguez M, Plaza López Sabando D, **Jiménez-Reinoso A**, Mozo del Castillo Y, Sanz Santaefemia FJ, de Lucas-Laguna R, Cárdenas PP, Casamayor Polo L, Coronel Díaz M, Valés-Gómez M, Roldán Santiago E, Ferreira Cerdán A, Nevado Blanco J, Corbí AL, Thomson Reyburn H, Regueiro JR, López-Granados E and Rodríguez Pena R. New human combined immunodeficiency due to IRF4 deficiency inherited by uniparental isodisomy (2018). J Allergy Clin Immunol. 141(5):1924-1927.e18. **IF: 13.08**.
3. **Jiménez-Reinoso A**, Marin AV, Subias M, López-Lera A, Román-Ortiz E, Payne K, Ma CS, Arbore G, Kolev M, Freeley SJ, Kemper C, Tangye SG, Fernández-Malavé E, Rodríguez de Córdoba S, López-Trascasa M and Regueiro JR. Human plasma C3 is essential for the development of memory B, but not T, lymphocytes (2018). J Allergy Clin Immunol. 141(3):1151-1154.e14. **IF: 13.08**.
4. Guasp P, Barnea E, González-Escribano MF, **Jiménez-Reinoso A**, Regueiro JR, Admon A and López de Castro JA. The Behçet's Disease associated variant of the aminopeptidase ERAP1 shapes a low affinity HLA-B*51 peptidome by differential subpeptidome processing (2017). J Biol Chem. 292(23):9680-9689. **IF: 4.13**.
5. **Jiménez-Reinoso A**, Marin AV and Regueiro JR. Complement in basic processes of the cell (2017). Mol Immunol. 84:10-16. **IF: 3.24**.
6. Marin AV, **Jiménez-Reinoso A**, Briones AC, Muñoz-Ruiz M, Aydogmus C, Pasick L, Couso J, Mazariegos MS, Alvarez-Prado AF, Blázquez-Moreno A, Babayigit Hocaoglu A, Cipe

- FE, Moreno-Pelayo MA, García-Sánchez F, Gil J, Reyburn HT, Ramiro AR, Recio MJ, Ikinogullari A, Regueiro JR and Garcillán B. Primary T-cell immunodeficiency caused by a novel mutation in the CD247 subunit of the TCR (2017). *J Allergy Clin Immunol.* 139(1):347-349. **IF: 13.08.**
7. Beatriz Garcillán, Ana V. M. Marin, **Anaïs Jiménez-Reinoso**, Alejandro C. Briones, Miguel Muñoz-Ruiz, María J. García-León, Juana Gil, Luis M. Allende, Eduardo Martínez-Naves, María L. Toribio and José R. Regueiro. $\gamma\delta$ T lymphocytes in the diagnosis of human T cell receptor immunodeficiencies (2015). *Front Immunol.* 6:20. doi: 10.3389/fimmu.2015.00020.
8. AVM Marin*, Beatriz (B) Garcillán*, **Anaïs (A) Jiménez-Reinoso***, Miguel (M) Muñoz-Ruiz, Alejandro (AC) Briones, Edgar (E) Fernández-Malavé, María Jose (MJ) Recio, Jose Ramon (JR) Regueiro. Human congenital T Cell Receptor disorders (2015). *LymphoSign Journal.* 2:1. doi: 10.14785/lpsn-2014-0012. *Joint first authors.
9. Torres JM, Martínez-Barricarte R, García-Gómez S, Mazariegos MS, Itan Y, Boisson B, Rholvarez R, **Jiménez-Reinoso A**, del Pino L, Rodríguez-Pena R, Ferreira A, Hernández-Jiménez E, Toledano V, Cubillos-Zapata C, Díaz-Almirón M, López-Collazo E, Unzueta-Roch JL, Sánchez-Ramón S, Regueiro JR, López-Granados E, Casanova JL, Pérez de Diego R. Inherited BCL10 deficiency impairs hematopoietic and nonhematopoietic immunity (2014). *J Clin Invest.* 124(12):5239-48. **IF: 15.39.**
10. García-Zaragoza E, Pérez-Tavarez R, Ballester A, Lafarga V, **Jiménez-Reinoso A**, Ramírez, A., Murillas, R., Gallego MI. Intraepithelial paracrine Hedgehog signaling induces the expansion of ciliated cells that express diverse progenitor cell markers in the basal epithelium of the mouse mammary gland (2012). *Dev Biol.* 372(1):28-44. **IF: 3.64.**
11. Fernández-Martín L, Marcos-Ramiro B, Bigarella CL, Graupera M, Cain RJ, Reglero-Real N, **Jiménez A**, Cernuda-Morollón E, Correas I, Cox S, Ridley AJ, Millán J. Crosstalk between reticular adherens junctions and platelet endothelial cell adhesion molecule-1 regulates endothelial barrier function (2012). *Arterioscler Thromb Vasc Biol.* 32(8):e90-102. **IF: 6.34.**

C.2. Research Projects and Grants

Research Projects:

1. The Complement system in health and disease (Complemento II-CM) - Ref. B2017/BMD3673. CAM, CIB CSIC, FJD, UCM, HULP, HU12O, 2018-2021. IP: Rodríguez de Córdoba S (Regueiro JR). 828.092 €,
2. Surface and intracellular T lymphocyte activation physiopathology - Ref. SAF2014-54708-R. Ministerio de Economía y Competitividad (MINECO). 2015-2018. IP: Regueiro, JR. / Fernández-Malavé E. Universidad Complutense de Madrid (UCM). 275.000 €.
3. Fisiopatología de la activación del linfocito T - Ref. 2012/0070. Fundación Lair. Universidad Complutense de Madrid (HU12O). 2012-2015. IP: Regueiro, JR. UCM. 24.000 €.
4. Fisiopatología de la activación del linfocito T - Ref. SAF2011-24235. Ministerio de Ciencia e Innovación (MICINN). 2012-2015. IP: Regueiro, JR. UCM. 193.600 € + 1 FPI.
5. Biology and physiopathology of the complement system - Ref. P2010/BMD-2316. Comunidad de Madrid (CAM). 2012-2016. IP: Rodríguez de Córdoba, S. CIB CSIC, UCM, HULP, HU12O. 736.000 €.

Grants:

- Apr-Jul 2015: EFIS-IL short-term fellowship.
2012-2016: Predoctoral fellowship from the Ministry of Economy and Competitiveness (FPI).
2010-2011: Scholarship from the Ministry of Education and Science for Master studies.
2009-2010: Scholarship from the Ministry of Education and Science for Degree studies.

C.3. Contracts

Title: *Contrato Postdoctoral YEI-Garantía Juvenil*

Financing Administration: Comunidad de Madrid/ Complutense Univ.

Duration: From March 1, 2018 To: February 28, 2019.

PI: Professor José R. Regueiro

C.4. Patents and other IPR

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C.5. Stays in other centers

<p>Type: Predoctoral short-term fellowship Center: Guy's Hospital, King's College London Location: London, UK Date and duration: April-July 2015 Topic: <i>Phenotypical and functional characterization of human T cells from plasma C3-deficient patients.</i> Supervisor: Professor Claudia Kemper.</p>

C.6. Conference contribution

<ul style="list-style-type: none">- XXXVII Congreso Nacional de Inmunología. Salamanca (Spain) 2013. Best poster prize.- 4ª Reunión Anual de la Sociedad de Inmunología de la Comunidad de Madrid. Madrid (Spain) 2013.- XXXVIII Congreso Nacional de Inmunología. Badajoz (Spain) 2014.- 16th Biennial Meeting of the European Society for Immunodeficiencies (ESID). Prague (Czech Republic) 2014.- 5ª Reunión Anual de la Sociedad de Inmunología de la Comunidad de Madrid. Madrid (Spain) 2014.- The 15th European Meeting on Complement in Human Disease. Uppsala (Sweden) 2015. ECN Travel Award. SEI Travel Grant.- 4th European Congress of Immunology. Vienna (Austria) 2015.- XXXIX Congreso Nacional de Inmunología. Alicante (Spain) 2016. Special mention for oral presentation. SEI Travel Grant.- EMBO Conference: Lymphocyte Antigen Receptor Signaling. Sienna (Italy) 2016. EMBO Travel Grant.- 17th Biennial Meeting of the ESID. Barcelona (Spain) 2016.- XL Congreso Nacional de Inmunología. Zaragoza (Spain) 2017.
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C.7. Teaching experience

<p>2012-2018: University Teaching Assistant, teaching lab techniques in Medicine, Biochemistry and Pharmacy degrees, Complutense University of Madrid (Spain).</p>
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C.8. Management experience

<p>Member of the Dpt. Council, Immunology (Microbiology I), School of Medicine, Complutense University (Apr 2014-Dec 2016). Dpt. budget supervisor, Immunology, (Microbiology I), School of Medicine, Complutense University (2013-2014). Charge of accounting of the Research project Ref. SAF2011-24235 (2013-present).</p>

C.9. Research groups

<p>2016-2017: European Society for Immunodeficiencies (ESID). 2013-present: Instituto de Investigación Hospital 12 de Octubre (i+12), Grupo Inmunobiología Linfocitaria. 2012-present: European Federation of Immunological Societies (EFIS). 2012-present: Sociedad Española de Inmunología (SEI).</p>
