

Fecha del CVA

29/01/2020

Parte A. DATOS PERSONALES

Nombre y Apellidos	Agustín Tortajada Alonso		
DNI	72048873	Edad	37
Núm. identificación del investigador	Researcher ID	H-2857-2015	
	Scopus Author ID	26023879900	
	Código ORCID		

A.1. Situación profesional actual

Organismo	Universidad Complutense de Madrid		
Dpto. / Centro	Inmunología, Oftalmología y ORL / Facultad de Medicina		
Dirección	Av Complutense s/n, Fac. Medicina, dpt. Inmunología, Oftalmología y ORL. Pabellón V, planta 4, 28040, Madrid		
Teléfono	(34) 656287165	Correo electrónico	agustito@ucm.es
Categoría profesional	Profesor Ayudante Doctor	Fecha inicio	2019
Espec. cód. UNESCO	241200 - Inmunología		
Palabras clave			

A.2. Formación académica (título, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
Programa de Genética y Biología Molecular	Universidad Complutense de Madrid	2012
Licenciado en Ciencias Biológicas	Universidad Complutense de Madrid	2006

A.3. Indicadores generales de calidad de la producción científica

Total: 27 publicaciones (4 reviews).

Datos Decil o Cuartil recogidos de InCites JCR (según año de publicación). D1:14, Q1:6, Q2:7 y Q3:1.

ResearcherID: H-2857-2015

ORCID: 0000-0002-2131-2594

SCOPUS ID: 26023879900

H-Index: 18 (ResearcherID, SCOPUS)

Citas totales: 1093 (ResearcherID), 1117 (SCOPUS)

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

My area of expertise is the complement system of the innate immunity and its association with pathology. Particularly I am interested in rare diseases such as atypical Haemolytic Uremic Syndrome (aHUS) and C3 Glomerulopathy (C3G), and other more prevalent like aged-related Macular Degeneration (AMD). I have published more than 25 research articles in first order journals.

Quality indicators of scientific research

ORCID: 0000-0002-2131-2594

ResearcherID: H-2857-2015 (09/25/2018): Citations: 856; Average Citations: 24.46; h-index: 17

Predoctoral stage.

In 2007 I had a fellowship for training research personnel (FPI) and I joined the laboratory of Prof. Santiago Rodríguez de Córdoba at Centro de Investigaciones Biológicas (CSIC). In 2012 I completed the doctoral program in Genetics Cellular and Molecular (UCM / UAM) and I defended my doctoral thesis entitled: Structural and functional analysis of complement proteins associated with pathology. During this period, my work focused on the study of the pathogenic mechanisms of aHUS, C3G and ADM. The mayor achievements include the structural resolution of C3 convertase complexes and the functional characterization of common disease-associated genetic variants in factor H (FH) and factor B. The thesis obtained Excellent Cum Laude distinction and was awarded with the special doctorate 2011/2012 in the Biology faculty (UCM).

Postdoctoral stage.

Since 2012 onwards, I focussed on the study of FH related family proteins, whose interest has grown because of its association with diseases. Only in this area I have published more than ten research articles, one in Journal of Clinical Investigation (IF: 13,262) accompanied by an editorial commentary; and an invitational review in Trends in Immunology, one of the most prestigious journals in Immunology (IF: 10.399). I have participated in several projects supported by national and European funding and collaborated with different national and international groups (UK, Germany, Italy, see Scientific production), which gave rise to excellent publications. I worked with multidisciplinary approaches, ranging from clinical genetics and molecular and functional biochemistry, to structural analysis and 3D modelling. I trained in the group led by Dr. Claire Harris and Professor Paul Morgan, Cardiff University (UK), where I learned relevant techniques such as haemolytic assays and surface plasmon resonance. I attended several national and international conferences exposing our results to the scientific community. In February 2017 I had a two years grant within the Spanish Juan de la Cierva research program, and I joined the group of Prof. José Ramón Regueiro in the Immunology dept. in the School of Medicine (UCM) with a research/academic contract to continue my research in the complement system field and to gain perspective on the teaching activity.

Teaching & Dissemination

Since my current position as teaching and research staff at UCM I give lessons in the degree of Medicine and in the Translational Medicine Master and Research in Immunology Master, where I coordinate an optional subject. I supervised final projects for a Biochemical degree and Immunology Masters' students. In addition, I am involved in other projects related to science dissemination, such as "Pint of Science", "Ciudad Ciencia" and "Science Week of Madrid" where I coordinate an activity that takes place in the Medical School oriented to a general audience.

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

- 1 Artículo científico.** Agustín Tortajada Alonso; et al. (4/1). 2019. The role of complement in IgA nephropathy Molecular Immunology. 114, pp.123-132.
- 2 Artículo científico.** Merinero HM; et al. (6/5). 2018. Complete functional characterization of disease-associated genetic variants in the complement factor H gene.Kidney International. 93-2, pp.470-481.
- 3 Artículo científico.** Goicoechea de Jorge E; et al. (10/2). 2018. Factor H Competitor Generated by Gene Conversion Events Associates with Atypical Hemolytic Uremic Syndrome.Journal of the American Society of Nephrology. 29-1, pp.240-249.
- 4 Artículo científico.** Tortajada A; et al. (14/1). 2017. Elevated factor H-related protein 1 and factor H pathogenic variants decrease complement regulation in IgA nephropathy Kidney International. 92-4, pp.953-963.
- 5 Artículo científico.** Bettoni S; et al. (13/10). 2017. Interaction between Multimeric von Willebrand Factor and Complement: A Fresh Look to the Pathophysiology of Microvascular Thrombosis.Kidney International. 199-3, pp.1021-1040.
- 6 Artículo científico.** Csincsi, Ál.; et al. (13/7). 2017. FHR-1 Binds to C-Reactive Protein and Enhances Rather than Inhibits Complement Activation.Journal of immunology. 199-1, pp.292-303. ISSN 1550-6606.

- 7 **Artículo científico.** Xiao, X.; et al. (11/1). 2016. Familial C3 glomerulonephritis caused by a novel CFHR5-CFHR2 fusion gene. *Molecular immunology*. 77, pp.89-96. ISSN 1872-9142.
- 8 **Artículo científico.** Recalde S.; et al. (11/1). 2015. Molecular Basis of Factor H R1210C Association with Ocular and Renal Diseases *Journal of the American Society of Nephrology*. 27-5, pp.1305-1311.
- 9 **Revisión bibliográfica.** de Jorge EG; et al. (6/4). 2018. How novel structures inform understanding of complement function *Seminars in Immunopathology*. 40-1, pp.3-14.
- 10 **Revisión bibliográfica.** Józsi, M.; et al. (5/2). 2015. Factor H-related proteins determine complement-activating surfaces *Trends in Immunology*. 36-6, pp.374-384.

C.2. Proyectos

- 1 Descifrando las bases moleculares de las enfermedades relacionadas con desregulación del Complemento y aprendiendo como tratarlas. MINECO/FEDER. SAF2015-66287-R Santiago Rodríguez de Córdoba. (Centro de Investigaciones Biológicas). 2016-2019.
- 2 European Consortium for High-Throughput Research in Rare Kidney Diseases. Proyecto Europeo FP7-HEALTH-2012-INNOVATION-1 (Nº 305608) (Ref. EURenOmics) FP7-HEALTH-2012-INNOVATION-1. Santiago Rodríguez de Córdoba. (Centro de Investigaciones Biológicas). 01/10/2012-30/09/2017.
- 3 Complemento y enfermedad. Búsqueda de mecanismos patogénicos compartidos por enfermedades raras y comunes (Ref. ER15PR01ACCI14-738) CIBER ENFERMEDADES RARAS (CIBERER). Santiago Rodríguez de Córdoba. (Centro de Investigaciones Biológicas). 01/01/2015-31/12/2015.
- 4 Biología y fisiopatología del sistema del complemento (Ref. S2010/BMD-2316) Comunidad Autónoma de Madrid. Santiago Rodríguez de Córdoba. (Centro de Investigaciones Biológicas). 01/01/2012-31/12/2015.
- 5 El sistema del complemento en salud y enfermedad - B2017/BMD3673 Díaz Carrasco, Asunción. (Universidad Complutense de Madrid). Desde 2018.
- 6 Mecanismos patogénicos en enfermedades raras y comunes asociadas con desregulación del complemento. Proyecto ACCI (CIBERER) (ref. ER16P1AC738) Santiago Rodríguez de Córdoba. (Centro de Investigaciones Biológicas). Desde 2016.

C.3. Contratos

C.4. Patentes