CURRICULUM VITAE ABREVIADO (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

First name	Virginia		
Family name	G. de Yebenes		
Gender	Female	Birth date (dd/mm/yyyy)	30/10/1972
Social Security, Passport, ID number	51416216S		
e-mail	vgarciay@ucm.es	URL Web	https://www.ucm.es/ioo/bcellphysiopatology
Open Researcher and Contributor ID (ORCID)	0000-0002-3785-5868		

A.1. Current position

Position	Associate Professor		
Initial date	01/12/2019		
Institution	Universidad Complutense de Madrid (UCM)		
Department/Center	Immunology	Faculty of Medicine	
Country	Spain	Teleph. number	34-91 394 1641
Key words	microRNA, B lymphocyte, lymphoma, Germinal Center		

A.2. Previous positions (research activity interuptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
12.2015-11.2019	Research Associate. Centro Nacional de Investigaciones Cardiovasculares (CNIC). Spain
12.2011-11.2015	“Ramon y Cajal” Researcher. Centro Nacional de Investigaciones Cardiovasculares (CNIC). Spain. Maternity leave (14/05/2012 to 02/09/2012: 4 months)
04.2010-11.2011	“Ramon y Cajal” Researcher. Centro Nacional de Investigaciones Oncologicas (CNIO). Spain. Maternity leave (03/08/2010-22/11/2010: 4 months)
04.2006 -03.2010	Postdoctoral Researcher. Centro Nacional de Investigaciones Oncologicas (CNIO). Spain
04.2003-03.2006	Head of flow cytometry research technical unit. Centro de Biología Molecular Severo Ochoa (CBMSO-CSIC). Spain
01.2003 -03.2003	Postdoctoral Researcher. Centro de Biología Molecular Severo Ochoa (CBMSO-CSIC). Spain
01.1997-12.2002	Predoctoral Researcher. Centro de Biología Molecular Severo Ochoa (CBMSO-CSIC). Spain
10.1995 -06.1996	Predoctoral Researcher. Centro Nacional de Biotecnología (CNB-CSIC). Spain

A.3. Education

PhD	**University/Country**	**Year**
Ph.D. Immunology	Universidad Autónoma de Madrid (UAM). Spain	2002
Degree	**University/Country**	**Year**
Biochemistry	Universidad Autónoma de Madrid (UAM). Spain	1995

Part B. CV SUMMARY

Virginia G. de Yébenes obtained her BS degree in Biochemistry and Molecular Biology at the Universidad Autónoma de Madrid in 1995. De Yébenes received her PhD with First-Class Honours from the Universidad Autónoma de Madrid in 2002 and later joined the Spanish National Cancer Research Center (CNIO) as a postdoctoral fellow.

In 2009 de Yebenes was awarded a "Ramon y Cajal" research position and her scientific career was acknowledged with an I3 outstanding research trajectory certificate from the Spanish National Evaluation Agency in 2014.

She joined the Centro Nacional de Investigaciones Cardiovasculares (CNIC) in 2011, where she worked as a Research Associate in the B Cell Biology Lab, led by Almudena R. Ramiro, until her appointment as Associate Professor at the Universidad Complutense de Madrid (UCM) in 2019. During this time as postdoctoral and senior researcher, she developed a new research line focused on the characterization of the role of microRNAs in the regulation of B cell responses and endothelial physiology. Dr. de Yebenes developed advanced mouse models to study microRNA regulation of B cell and endothelial functions that lead to several highly cited publications in leading journals (*J Exp Med* 2008, *Immunity* 2010, *Immunol Rev* 2013, *Blood* 2014, *Blood* 2017 and *ATVB* 2020, among others). As a Research Associate, Dr. de Yebenes directly contributed to the scientific mentoring of some of the students in the B cell Lab laboratory (6 PhD students: 12 collaborative articles and 4 reviews), codirected a Master work (Teresa Fuertes; UAM 2017) and a PhD thesis (Nahikari Bartolomé; UAM 2016). The clinical applications of her works for B cell lymphoma treatment have been patented (EP15382249.9 and EP17382740.3). Dr. de Yébenes obtained an "Investigador AECC" grant in 2018 to develop these research lines as principal investigator.

Dr. de Yébenes has led the B Cell Physiopathology Group at the Immunology Department of the Faculty of Medicine (UCM) since its establishment in 2020. The laboratory investigates the role of non-coding RNAs in the regulation of B cell responses to guide the development of immune-modulating and B cell–targeted therapies. Dr. de Yébenes has supervised one PhD (UAM, 2023) and three Master's theses (UCM, 2021, 2022, and 2025), and currently mentors two PhD students (Emigdio Álvarez and Rocío Moreno, UCM) funded by national (MCIN I+D+i 2019, 2022) and regional fellowships (PIPF-2022, PIPF-2023, CM). She will also supervise an upcoming PhD within a Marie Skłodowska-Curie Doctoral Network (HORIZON-MSCA-2024). The group collaborates with national and international leaders in immunology and RNA biology (Nuria Martinez Martin, CBMSO; María Galindo, i+12; Laura Belver, IJC; Álvaro Somoza, IMDEA-Nanociencia; and Carola Vinuesa, FCI, U.K.). In addition, Dr. de Yébenes is the scientific co-director of the Lymphocyte Immunobiology Research Group, that includes 12 IPs working in immunology research lines, at the Instituto de Investigación Sanitaria i+12.

Since the creation of the B cell physiopathology group, we have demonstrated that: (i) miRNA-based therapies can be developed to enhance the antitumor effects of Btk inhibitors such as ibrutinib (Fuertes et al., *Cell Death Dis* 2023) and to prevent the development of ibrutinib resistance (Alvarez et al., *bioRxiv* 2025, under second review in *Leukemia;* 25-LEU-1659); and (ii) germinal center duration is regulated by the microRNA miR-28 (Moreno et al; in preparation). Our findings have been regularly presented at major conferences, including Keystone Symposia and the European B cell network (EBCnet) meetings. The group has also published collaborative works in the microRNA and cancer fields (*Leukemia* 2020, *EMBO Rep* 2020, *Oncogene* 2023, *EMBO Mol Med* 2025) and 2 reviews about the role of miRNAs in GC regulation and miRNA-based therapies in important journals of the field (*Trends Immunol* 2020 and *Front Immunol* 2021). The group is part of the EBCnet and the ACHILLES Marie Skłodowska-Curie Doctoral Network on leukemia research, in which Dr. Yebenes is the coordinator of one of the scientific objectives.

During her research career, Dr. de Yébenes has authored 31 articles (14 as first and 6 as corresponding and/or last author; H-index 23, >1,500 citations). Dr. de Yébenes contributes regularly to other scientific activities, including (a) peer-review of research articles and grant applications, being a member of the Plan Nacional 2024 Study Sections for AEI, (b) participating as member of PhD and master thesis committees, and (c) being part of evaluation committees for research positions at the UCM. In addition, Dr. de Yébenes regularly engages in scientific outreach activities (e.g., school talks, "Semana de la Ciencia" events, and general-audience science articles in The Conversation) and has taught Immunology in undergraduate and Master's programs on a regular basis since 2019.

Part C. RELEVANT MERITS

C.1. Publications (10 selected) *CA: corresponding author. (nº x / nº y): position / total authors*

1. Fuertes T, Álvarez-Corrales E, Gómez-Escolar C,…, de Yébenes, V.G (9/9; CA). 2023. miR-28-based combination therapy impairs aggressive B cell lymphoma growth by rewiring DNA replication. **Cell Death Dis.** 14(10):687. IF: 8.1. Quartile: 1
2. Fuertes-Novella, T; Salgado, I; de Yébenes, V.G. 2021. microRNA Fine-Tuning of the Germinal Center Response. **Front Immunol**.12: 660450. IF: 8.9. Quartile: 1
3. Fuertes-Novella, T; Ramiro, A.R.; de Yébenes, V.G. 2020. miRNA-based therapeutics in non-Hodgkin lymphoma: advances and future challenges. **Trends Immunol**. 932-947. IF: 16.7. Decile:1 Quartile: 1. Citations: 39 (56th percentile Scopus)
4. de Yébenes VG$^{\&}$, Briones AM, Martos-Folgado I, …, Ramiro AR$^{\&}$.(1/16; CA). 2020. Aging-Associated miR-217 Aggravates Atherosclerosis and Promotes Cardiovascular Dysfunction. **Arterioscler Thromb Vasc Biol**. 40(10):2408-2424. IF: 8.3. Decile:1 Quartile: 1. Citations: 106 (97th percentile Scopus).
5. Bartolomé-Izquierdo, N$^{\#}$; de Yébenes V.G$^{\#\&}$; Álvarez-Prado, A.F; Mur, S.M; Lopez del Olmo, J.A; Roa, S; Vazquez, J.; Ramiro$^{\&}$ A.R. (# fist co-author; &-CA). 2017. miR-28 regulates the germinal center reaction and blocks tumor growth in preclinical models of Non-Hodgkin Lymphoma. **Blood**. 129(17):2408-2419. IF:13.2 Decile:1 Quartile: 1 Citations: 46 (84th percentile Scopus).
6. de Yébenes, V.G$^{\&}$**;** Bartolome-Izquierdo, N; Nogales-cadenas, R; …, Ramiro, A.R$^{\&}$. (1/12; CA). 2014. miR-217 is an oncogene that enhaces the germinal center reaction. **Blood**. 124(2):229-39. IF:10.5 Decile:1 Quartile:1 Citations: 58 (85th percentile Scopus).
7. de Yébenes, V.G.; Bartolome-Izquierdo, N; Ramiro, A.R. 2013. Regulation of B-cell development and function by microRNAs. **Immunol Rev**. 253(1):25-39**.** IF:12.2 Decile:1 Quartile: 1 Citations: 83 (78th percentile Scopus).
8. Belver, L; de Yébenes, V.G.; Ramiro, A.R. 2010. MicroRNAs prevent the generation of autoreactive antibodies. **Immunity.** 33(5):713-22. IF:19.8 Decile:1 Quartile: 1 Citations: 136 (91th percentile Scopus).
9. de Yébenes, V.G; Belver, L; Pisano, DG; González, S; Villasante, A; Croce, C; He, L; Ramiro, A.R. 2008. miR-181b negatively regulates activation-induced cytidine deaminase in B cells. **J Exp Med**. 205(10):2199-206. IF:15.5. Decile:1 Quartile: 1 Citations: 213 (92th percentile Scopus).
10. de Yébenes VG, Carrasco YR, Ramiro AR, Toribio ML. 2002. Identification of a myeloid intrathymic pathway of dendritic cell development marked by expression of the granulocyte macrophage-colony-stimulating factor receptor. **Blood**. 99(8):2948-56. IF: 9,6. Decile:1 Quartile: 1 Citations: 36 (78th percentile Scopus).

C.2. Congress. Selected conference presentations:

1. B Cells: Multifaceted Functions and Dysfunctions Keystone Symposia. Montecarlo, Monaco. From 23/02/2025 to 26/02/2025. Oral presentation by Virginia G. de Yébenes.
2. 4th European B cell Forum 2022. Egmond aan Zee. The Netherlands. From 06/27/201 to 06/29/2017. European B cell Network. Oral presentation by Virginia G. de Yébenes.
3. NONCODING RNA-MEDIATED METABOLIC REGULATION IN HEALTH AND DISEASE. Baeza, España. From 11/05/2017 to 11/08/2017. Oral presentation and poster by Virginia G. de Yébenes.

5. Biology of B cell responses Keystone Symposia. Keystone, Colorado, United States of America. From: 02/09/2014 to 02/14/2014. Keystone Symposia. Oral presentation and poster by Virginia G. de Yébenes.

C.3. Research projects

1. **Title:** Regulación de la expresión génica por ARN no codificantes en respuestas de células B y neoplasia. (PID2022-137014OB-I00). **Participant Institution:** Universidad Complutense de Madrid. **PI**: Virginia G. de Yébenes. **Funding Institution:** Ministerio de Ciencia e Innovación (Generación Conocimiento 2022). **From:** 01/09/2023 **To:** 31/08/2026. **Total Amount**: 200.000€
2. **Title:** Contribución funcional de los microARNs a la transformación neoplásica de linfocitos B. (PID2019-107551RB-I00). **Participant Institution:** Universidad Complutense de Madrid. **PI**: Virginia G. de Yébenes. **Funding Institution:** Ministerio de Ciencia e Innovación (Retos-colaboración 2019). **From:** 01/06/2020 **To:** 30/05/2023. **Total Amount**: 133.100€
3. **Title:** Understanding the function of miR-28 in the immune response and in B cell lymphomas. **Participant Institution:** Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III. **PI**: Virginia G. de Yébenes. **Funding Institution:** Asociación Española Contra el Cáncer (AECC). Investigador AECC 2018. **From:** 01/12/2019 **To:** 31/12/2022 (resigned on 30/11/2019). **Total Amount**: 200.000€
4. **Title:** Estudio de la contribución funcional de microRNAs a la generación de fenómenos linfomagénicos asociados a las reacciones de centros germinales. **Participant Institutions:** Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III and Centro Nacional de Investigaciones Oncológicas. **PI:** Virginia G. de Yébenes. **Funding Institution:** Ministerio de Ciencia e Innovación. Programa Ramón y Cajal. **From:** 15/04/2010 **To:** 01/05/2016. **Total Amount**: 192.480 €.

C.4. Contracts, technological or transfer merits,

1. **Inventors** (by order of signature): Almudena R. Ramiro and Virginia G de Yébenes. **International Application No:** EP17382740. **Title:** miRNAS and combinations thereof for use in the treatment of human B cell neoplasia. 3 **Priority country**: Europe **Priority Date**: 11/03/2017. **Holder Entity** Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC).
2. **Inventors** (by order of signature): Almudena R. Ramiro, Nahikari Bartolomé-Izquierdo and Virginia G de Yébenes. **International Application No:** EP15382249.9 **Title:** miRNA compositions for the treatment of mature B-cell neoplasms. **Priority country**: Europe **Priority Date**: 05/14/2015 **Holder Entity:** Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC).
3. **Inventors** (by order of signature): María Luisa Toribio García, Graciela Carrillo Rosales, Almudena R. Ramiro, Virginia G de Yébenes and Yolanda R. Carrasco. **International Application No**: 200101903. **Title:** Pre-receptor de las células T (pre-TCR). Caracterización y regulación de su expresión y función durante el desarrollo de las células T en humanos. **Priority country**: Spain **Priority Date**: 10/14/2004 **Holder Entity:** Consejo Superior de Investigaciones Científicas. **Licensed:** to BioLegend (RUO).

C5. Other Merits. Grants for Research Personnel

1. Marie Skłodowska-Curie Doctoral Network; HORIZON-MSCA-2024-DN-01/101227725 (2026-2029) **PI**: V.G. Yebenes. DN Coordinator: L. Belver. **Budget for the recruited PhD researcher**: 181.388,16 €. **Total amount**: 282.188,16 €
2. Programa de Jóvenes Investigadores Comunidad de Madrid; JOV.INV. CT64/25-04. (2025-2026). **PI**: V.G. Yebenes. **Total amount**: 33.108,92 €
3. Investigadores Predoctorales Comunidad de Madrid; PIPF-2023/SAL-GL-29484 (2024-2028). **PI**: V.G. Yebenes. **Total Amount**: 110.630,38 €
4. Investigadores Predoctorales Comunidad de Madrid; PIPF-2022/SAL-GL-24469 (2023-2027). **PI**: V.G. Yebenes. **Total Amount**: 110.630,38 €
5. Ayudantes de investigación Comunidad de Madrid; PEJ-2020-AI/BMD-18112 (2021-2023). **PI**: V.G. Yebenes. **Total Amount:** 45.000,00 €