

**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	Elena		
Family name	Gómez Díaz		
Gender (*)	Female	Birth date (dd/mm/yyyy)	25/10/1979
Social Security, Passport, ID number	46966765Y		
e-mail	elena.gomez@csic.es	URL Web	<a href="https://gomezdiazlab.wordpress.com">https://gomezdiazlab.wordpress.com</a>
Open Researcher and Contributor ID (ORCID) (*)	orcid.org/0000-0002-4146-9003		

(\*) Mandatory

**A.1. Current position**

Position	Científica Titular		
Initial date	16/11/2021		
Institution	Consejo Superior de Investigaciones Científicas (CSIC)		
Department/Center	Bioquímica y Farmacología Molecular	Institute of Parasitology and Biomedicine López- Neyra (IPBLN)	
Country	Spain	Teleph. number	672296206
Key words	Parasitology, Infectious diseases, Molecular and Evolutionary Biology, Genomics, Epigenetics		

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

Period	Position/Institution/Country/Interruption cause
14/12/2023 - 3/4/2024	Interruption - Maternity leave
10/6/2021-30/09/2021	Interruption - Maternity leave
3/2021-11/2021	Investigadora Distinguida/ Institute of Parasitology and Biomedicine López-Neyra, CSIC/ Spain
2015-2021	Ramon y Cajal researcher/ Estación Biológica de Doñana, CSIC and Institute of Parasitology and Biomedicine López- Neyra, CSIC/ Spain
2012-2014	Postdoc/ Department of Biology, Emory University/USA
2011-2013	Juan de la Cierva researcher / Institut de Biologia Evolutiva, Barcelona, UPF-CSIC/ Spain
2010-2011	Beatriu de Pinós postdoc / Institut de Biologia Evolutiva, Barcelona, UPF-CSIC/ Spain
2007-2010	Marie Curie postdoc/ MIVEGEC (UMR IRD- CNRS)/ France
2007	Research assistant/ IMPPC/ Spain

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
Bachelor	University of Extremadura/ Spain	2002
DEA	University of Barcelona/ Spain	2004
PhD	University of Barcelona/ Spain	2007

**Part B. CV SUMMARY** (max. 5000 characters, including spaces)

Currently I am CSIC Staff Scientist – CT:Científica Titular, at Institute of Parasitology and Biomedicine López-Neyra of the CSIC, where I lead the malaria epigenomics lab (<https://gomezdiazlab.wordpress.com>). We are the PI, 1 Postdoc, 4 PhD students, 1 TFM and



1 Technician. The lab has pioneered the application of epigenomic approaches to study malaria parasite gene regulation with a focus on the parasite life-cycle in the mosquito. All my career has been funded by **highly competitive research grants**: 2 Marie Curie European fellowships, Juan de la Cierva and Ramón y Cajal contracts, and a “Leonardo” fellowship from BBVA foundation. My international experience includes 2 postdocs: 3 years at the CNRS-IRD, France; and 3 years at Emory University, United States. As a PI, I accumulate more than 12 months working in Africa. My **research outputs** include 54 peer-reviewed publications (Google Scholar h-index: 27, >2700 citations). My contributions include 11 invited talks and 30 oral presentations. In terms of **funding**, I have participated in 14 research projects and have been the PI for 10 research projects (total amount 1,700,000€). In 2020, I was selected for the ERC consolidator grant and got short-listed in the reserve list for funding with qualification of “A-Excellent”. Currently, I am the PI of two projects, among these I coordinate a multicenter consortium between Spain, UK and Mali funded by La Caixa Foundation. I have ample **mentoring** experience, I have supervised 3 PhD theses and I am supervising 4 PhD thesis, 2 JAE-Intro, 11 TFM/TFGs. As for scientific service and institutional responsibilities, I have been part of the panel of experts of the research evaluation agency EU H2020 for several European Union Marie Skłodowska-Curie Actions since 2012, I have participated in evaluation committees for the ERC, AEI, ANR, FCT, AGAUR and other international agencies. I have been editor of a special issue for *Frontiers in Malaria*, for *Briefings in Functional Genomics*, associate editor of *Frontiers* and a regular reviewer for more than 30 journals. I have been recently elected Councilor of the Society for Molecular Biology and Evolution (SMBE) and coordinator of the Molecular Parasitology group of the Spanish Society of Biochemistry and Molecular Biology (SEBBM). I am founder and co-coordinator of *Women In Malaria* (<https://womeninmalaria.es>). I have been collaborator of the Women and Science Unit of the Ministry of Science and Innovation (UMyC). I created and coordinated the diversity and equality committees of 2 CSIC institutes, the EBD-CSIC and the IPBLN-CSIC, and I am member of the Women and Science group of the SEBBM.

## **Part C. RELEVANT MERITS** (sorted by typology)

### **C.1. Publications** (see instructions)

\*10 Selected publications from the last 10 years related to the proposal, full list: <https://gomezdiazlab.wordpress.com/publications/>. Former and current Lab members are underlined.

1. Ruiz J. L., Reimering S., Escobar-Prieto J. D., Brancucci N. M. B., Echeverry D. F., Abdi A. I., Marti M., Gómez-Díaz E., Otto T. D. (2023). From contigs towards chromosomes: automatic Improvement of Long Read Assemblies (ILRA). **Briefings in Bioinformatics**, bbad248; doi: <https://doi.org/10.1093/bib/bbad248>. IF = 14.0; Q1.
2. Parres-Mercader M., Pance A., & Gómez-Díaz E. (2023). Novel systems to study vector-pathogen interactions in malaria. **Frontiers in Cellular and Infection Microbiology** 13:1146030, Sec. Parasite and Host; doi: <https://doi.org/10.3389/fcimb.2023.1146030>. IF = 6.0; Q1.
3. López-Farfán D.C., Irigoyen N., & Gómez-Díaz E. (2023). Exploring SARS-CoV-2 and Plasmodium falciparum coinfection in human erythrocytes. **Frontiers in Immunology** 14, Sec. Parasite Immunology; doi: <https://doi.org/10.3389/fimmu.2023.1120298>. IF = 8.8; Q1.
4. López-Farfán D.C., Yerbanga R. Serge, Parres-Mercader M., Torres-Puente M., Gómez-Navarro I., Sanou, D.M.S. Yao A.F., Ouédraogo J.B., Comas I., Irigoyen N., & Gómez-Díaz E. (2022). Prevalence of SARS-CoV-2 and co-occurrence/co-infection with malaria during the first wave of the pandemic (the Burkina Faso case). **Frontiers in Public Health** 12, Sec. Infectious Diseases: Epidemiology and Prevention; doi: <https://doi.org/10.3389/fpubh.2022.1048404>. IF = 6.5; Q1.
5. Gómez-Liñán C., Gómez-Díaz E., Ceballos-Pérez G., Fernández-Moya S.M. & Estévez A.M. (2022). The RNA-binding protein RBP33 regulates non-productive transcription in trypanosomes. **Nucleic Acids Research**, gkac1123, <https://doi.org/10.1093/nar/gkac1123>. IF = 19.2; Q1.
6. Ruiz J.L., Ranford-Cartwright L. & Gómez-Díaz E. (2021). The regulatory genome of the malaria vector *Anopheles gambiae*: integrating chromatin accessibility and gene expression. **NAR Genomics & Bioinformatics** 3 (1), lqaa113, doi: 10.1093/nargab/lqaa113. IF = 5 (prediction); Q1.



7. Ruiz J.L., Yerbanga R.S., Lefèvre T., Ouedraogo J.B, Corces V.G. & Gómez-Díaz E. (2019). Chromatin changes induced by a *Plasmodium falciparum* infection in *Anopheles gambiae*. **Epigenetics & Chromatin**, 12(1), 5; doi:10.1186/s13072-018-0250-9. IF = 5.4; Q1.
8. Ruiz J.L., Tena J.J., Bancells C., Cortés A., Gómez-Skarmeta J.L. & Gómez-Díaz E. (2018). Characterization of the accessible genome in the human malaria parasite *Plasmodium falciparum*. **Nucleic Acids Research**, gky643. DOI:10.1093/nar/gky643. IF = 11.6; Q1.
9. Gómez-Díaz, E., Yerbanga, R. S., Lefèvre, T., Cohuet, A., Rowley, M. J., Ouedraogo, J. B., & Corces, V. G. (2017). Epigenetic regulation of *Plasmodium falciparum* clonally variant gene expression during development in *Anopheles gambiae*. **Scientific Reports** 7, 40655; DOI:10.1038/srep40655. IF = 4.1; Q1.
10. Gómez-Díaz E. & Corces V.G. (2014). Architectural proteins: Regulators of 3D genome organization in cell fate. **Trends in Cell Biology**, 24(11): 703–711. DOI:10.1016/j.tcb.2014.08.003. IF = 12.0; Q1.

**C.2. Congress**, indicating the modality of their participation (invited conference, oral presentation, poster)

\*Invited oral presentations (last 5 years)

2020 EMBO Workshop on Genomes & Evolution, Granada, Spain.

2019 XI Congreso Sociedad Española Medicina Tropical y Salud Internacional. Ávila, Spain.

2019 Symposium Future of Parasitology. Pasteur Institute. Paris, France.

2018 European Meeting of PhD Students in Evolutionary Biology, Granada, Spain.

\*Oral presentations (last 5 years as first or last author): 5

\*Poster presentations (last 5 years as first or last author): 6

**C.3. Research projects**, indicating your personal contribution. In the case of young researchers, indicate lines of research for which they have been responsible.

\* As principal investigator (last 10-years)

Title: ADAPTORDIE: Coping with unpredictability: regulatory plasticity as an adaptation strategy in the human malaria parasite.

Funding agency: La Caixa Foundation

Duration: 31/12/2020-31/05/2025

Principal Investigator/Coordinator: Elena Gómez-Díaz

Amount: 999,548 €

Title: Phenotypic plasticity in the adaptation of malaria parasites to changing environments: a flip and go journey

Funding agency: Europa Excelencia, Ministry of Science and Innovation of Spain

Duration: 1/12/2020-30/11/2023 Principal Investigator: Elena Gómez-Díaz Amount: 60,000€

Title: A genome on the move: gene regulatory networks and epigenetics of the malaria parasite in the mosquito.

Funding agency: Plan Nacional Retos, Ministry of Science and Innovation of Spain

Duration: 1/6/2020-31/5/2024 Principal Investigator: Elena Gómez-Díaz Amount: 190,000 €

Title: "Co-infección SARS-CoV-2 y Plasmodium e implicaciones de salud global de la COVID19-malaria en África"

Funding agency: Fondo COVID-19 PTI Salud CSIC

Duration: 2020- 2021

Principal Investigator: Elena Gómez-Díaz

Amount: 155,000 €

Title: "Biología de la adaptación en los parásitos de la malaria humana en áreas endémicas"

Funding agency: Becas Leonardo Fundación BBVA

Duration: 2017- 2019

Principal Investigator: Elena Gómez-Díaz

Amount: 32,000 €

Title: "Epigenética de las Interacciones Plasmodium-Anopheles" (BFU2015-65000-R)

Funding agency: Plan Nacional Retos, Ministerio de Economía y Competitividad (MINECO)

Duration: 2016- 2019 Amount: 130,000 € Principal Investigator: Elena Gómez-Díaz

Title: "Dotación adicional Ramón y Cajal 2013"

Funding agency: Ministerio de Ciencia e Innovación

Duration: 2015-2020

Principal Investigator: Elena Gómez-Díaz

Amount: 40,000 €

\* As co-PI (last 5-years)

Title: Red temática en Genómica de la Adaptación AdaptNET

Funding agency: Agencia Estatal de Investigación, Ministerio de Ciencia e Innovación

Duración: 2023 – 2025 Principal Investigator: Carles Vilà Arbonés, EBD-CSIC, Spain



Title: Asymptomatic malaria in Burkina Faso: a barrier to effective disease control  
Funding agency: University of Glasgow Duration: 2018 - 2019  
Principal Investigator: Lisa Randford-Cartwright, University of Glasgow, UK

Title: Studying the pathogen transmission dynamics in managed and wild bee communities  
Funding agency: The CB Dennis British Beekeepers' Research Trust Duration: 2018-2019  
Principal Investigator: Cristina Botías, Doñana Biological Station – EBD-CSIC, Spain

#### **C.4. Contracts, technological or transfer merits**

#### **C.5. Honors and Awards**

2022 2 quinquenios (2 under evaluation – 2023), 2 sexenios  
2020 I3/R3 Certification by Agencia Estatal de Investigación. Spanish government.  
2015-2020 Ramon y Cajal Research Grant. Spanish government.  
2012 Research accreditation AQU Catalanian Research Assessment Commission  
2011-2014 Marie Curie European Re-Integration Grant. FP7. European Commission.  
2011-2014 Juan de la Cierva Research Grant. Spanish government.  
2010-2011 Beatriu de Pinós Fellowship. Catalanian government.  
2008-2010 Marie Curie Intra-European Fellowship. FP7. European Commission  
2003-2006 PhD fellowship. Catalanian government. University of Barcelona, Spain.

#### **C.6. Mentoring**

Last 5 years: 1 PhD completed / 4 PhD on-going, 2 JAE-Intro, 6 master theses  
In total: 3 PhD completed / 4 PhD on-going, 2 JAE-Intro, 7 master theses, 4 bachelor theses

#### **C.7. Teaching activities**

2023 Curso Nacional de Genética. Sociedad Española de Genética  
2022 Cursos de verano de la UCM El Escorial  
2019 Curso Nacional de Genética. Sociedad Española de Genética.  
2010 Master EU. *Etude des interactions durables*. University Pierre Marie Curie.  
2009 Master EU. Biodiversity. University of Barcelona, Spain.

#### **C.8. Institutional responsibilities**

2024-present Coordinator of the Molecular Parasitology group of the Spanish Society of Biochemistry and Molecular Biology (SEBBM)  
2024-present Councilor of the Society of Molecular Biology and Evolution (SBME)  
2021-present Co-founder and Co-Coordinator of Women in Malaria  
2018-present Member of the Women in Science group of the SEBBM  
2022 Collaborator Unidad Mujeres y Ciencia, Ministry of Science and Innovation  
2019-2022 Creator/Coordinator Equality and Diversity committee of the IPBLN-CSIC  
2017-2018 Creator/Coordinator Equality and Diversity committee of the EBD-CSIC

#### **C.9. Scientific service**

Editor of a Research Topic for Frontiers in Malaria  
Editor of a Special Issue for Briefings in Functional Genomics  
Review Editor of Frontiers in Parasitology, Frontiers in Behavioral and Evolutionary Ecology  
Referee scientific projects: MSCA, ERC, ANR, AEI, AGAUR, FCT, etc.  
Referee scientific publications (>30 journals): NatureComm, Nucleic Acid Res, PLoSPath, eLife

#### **C.10. Organization of meetings**

2021- 1<sup>st</sup> Women in Malaria conference  
2025- 2<sup>nd</sup> Women in Malaria conference

#### **C.11. Outreach**

Full list of activities (articles, talks and media visibility):

<https://gomezdiabolab.wordpress.com/outreach-2/>

Projects: Misión Malaria Cero (<https://misionmalariacero.com>), Fundación General del CSIC.