

CURRICULUM VITAE

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

Part A. PERSONAL INFORMATION		CV date	06/04/2023
First name	Cristina		
Family name	Valdiosera	Morales	
Gender (*)	Female	Birth date (dd/mm/yyyy)	
Social Security, Passport, ID number			
e-mail	cevaldiosera@ubu.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)	0000-0003-4948-2226		

(*) *Mandatory*

A.1. Current position

Position	Ramón y Cajal Researcher		
Initial date	01/08/2020		
Institution	University of Burgos		
Department/Center	History, Geography and Communications/ Faculty of Humanities	Human Evolution Laboratory	
Country	Spain	Tel. number	679894206
Key words	Molecular Archaeology, Prehistory, Genomics		

A.2. Previous positions (research activity interruptions, see call)

Period	Position/Institution/Country/Interruption cause
09/01/2017-31/07/2020	Lecturer /La Trobe University/Australia
13/04/2018-23/12/2019	Interruption due to Maternity Leave /La Trobe University/Australia
06/08/2012-08/01/2017	Research Fellow /La Trobe University/Australia
01/03/2010-01/03/2012	Marie Curie Fellow /Center for Geogenetics/University of Copenhagen
10/03/2009-10/03/2010	Post doc /University of Copenhagen/Denmark

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD	Universidad Complutense de Madrid/Spain	2008
Licensed	Universidad Nacional Autónoma de México/Mexico	2002

Part B. CV SUMMARY

My research has been in the field of applying ancient DNA to ancient human and animal **migrations and population dynamics**. During this time, I have also engaged with **ground-breaking** technical and methodological studies, **finding creative solutions** to the technological changes in my field and the challenges that arise from working with degraded DNA. My work on human archaeogenomics has been at the forefront of the field, including both technical work and investigating key areas of *archaeological* and *anthropological* interest; in the peopling of the Americas and the Mesolithic/Neolithic transition in Europe, north Africa and the Middle East. Indeed, my work on human archaeogenomics has contributed to areas of broad interest, such as the debate about the origins of Kennewick Man (*Nature*, 2015), the first peopling of the Americas (*Science* 2015, *Science Advances* 2016, *PNAS* 2017), and in Europe the origin of the first Neolithic farmers (*Science* 2014) (related to ancient people from Anatolia) (*Curr. Biol.* 2016) and the genetic dynamics of the Neolithic in Iberia (*PNAS* 2015, *PNAS*, 2018). Related to the genetic history of the Americas, a publication where I am a co-author has just been accepted in *Science* (April 2023). Similarly, a publication co-lead by me on our research on the Neolithisation of North Africa has just been accepted in *Nature* (April 2023).

In summary **my research has led to a number of well cited outputs (3187 citations, H index 23 – SCOPUS-April 2023) in highly ranked journals (e.g. 8 PNAS, 3 Science, 4 Current Biology, 2 Nature, 1 American Journal of Human Genetics, 2 Quaternary Science Reviews), indeed one third**

of my output is in Science, Nature and PNAS. Additionally, my research has been acknowledged in the Spanish system by the recognition of two “sexenios” and I am currently waiting for the result of third “sexenio” requested this past February.

Invited keynote and speaker addresses

I have presented my work on archaeogenomics at numerous prestigious international conferences (as oral presentations or as a Keynote speaker) or been invited to give short courses, in Denmark, Spain, Mexico, Argentina, Australia and the USA. Additionally, the recognition of my contribution to this field has further been expressed through international invitations to speak at many Universities in the *Americas*, including the National Autonomous University of Mexico, (2012, 2015), Universidad Católica Santo Toribio de Mogrovejo, Chiclayo, Perú (2009), National School of Archaeology and Anthropology, Mexico City (2011, 2012, 2015), at the Center of Genomic Sciences (Frontiers in Genomics), Cuernavaca, Mexico (2011) and at the National Institute of Genomics and Biodiversity (2010), Irapuato, Mexico, in *Europe* at the Evolutionary Biology Center, Uppsala University, Sweden (2013), Universidad de Burgos, Spain (2018) and in *Asia* at the University of Chinese Academy of Sciences, Beijing, China (2017).

Awards, Esteem and Press Coverage

My career has been supported by **several prestigious fellowships and grants (>€0.5M)**. My PhD (awarded *cum laude*) was funded through a competitive Spanish National grant scheme by the *Consejo Superior de Investigaciones Científicas* and further funds were won from the *Fundación Oso Pardo – Principado de Asturias*. Following my PhD, **my scientific independence has been endorsed** by a postdoctoral fellowship in the Programme of Excellence in Macroecology and Evolution – University of Copenhagen, and a Marie Curie Intra-European Fellowship also in Copenhagen. Following this I relocated to Australia, where I held a permanent teaching and research position, and secured funding as a PI on an ARC Discovery Project, before returning to Spain having won a Ramón y Cajal Fellowship. Beyond academic outputs, my PhD results are used in policy making and in practice by conservation scientists working with Iberian brown bears. My research has regularly attracted national news coverage (e.g. **Spain**: El País, ABC, El Mundo, Radio Nacional (“El Placer de admirar”), **Mexico**: EL Universal, Reforma, **UK**: Daily Mail) and **international** (National Geographic, BBC News), **Australia**: Australian Broadcasting Corporation website and featured on ABC 774 (Breakfast with Red Symons) and Triple R (public service radio). My research has been featured in scientific news outlets (Nature News, Science News, PNAS News, Sci-News, The Scientist Magazine).

PhD Thesis (Completed)

Irene Ureña Herradón. Paleogenética de la cabra montés y el íbice alpino: un estudio microevolutivo. Universidad Complutense de Madrid (2015). (Co-supervised with Juan Luis Arsuaga)

Ricardo Rodriguez. Variaciones en la distribución y la estructura genética de los linces paleárticos y el topillo de Cabrera desde el Pleistoceno Superior. Universidad Complutense de Madrid (2016). (Co-supervised with Juan Luis Arsuaga)

Luciana Simoes. Uncovering the Past through ancient DNA: *The fate and legacy of the last hunter-gatherers in Western Europe and Northwestern Africa*. Uppsala University (2023). (Co-Supervised with Mattias Jakobsson and Torsten Gunther)

• INSTITUTIONAL RESPONSIBILITIES

2019 – 2020 Departmental Research Leader (Archaeology), La Trobe University/ Australia

• REVIEWING ACTIVITIES

2019 – 2020 Member of the Steering Committee Genomics Platform, La Trobe University/Australia

2017 – Reviewer for the European Research Council start up grant Scheme

2020 – Reviewer for the IKERBASQUE Grant Scheme, Basque Country, Spain

Part C. RELEVANT MERITS

C.1. Publications (*Citations source Scopus April 2023*)

1) M. Srigyan, H. Bolivar, I. Ureña, ... **C. Valdiosera**^(CA). (2022) Bioarchaeological analysis of one of the earliest Islamic burials in the Levant. *Communications Biology*. 5,554. (17/17) DOI. <https://doi.org/10.1038/s42003-022-03508-4> Citations: 0.



2) **Valdiosera, C^(CA)**, Günther, T^(CA)., Vera-Rodríguez, J.C., ... Jakobsson, M. (2018). Four millennia of Iberian biomolecular prehistory illustrate the impact of prehistoric migrations at the far end of Eurasia. *PNAS*. 115 (13), 3428-3433. **Myself and TG are corresponding authors.** (1/20) DOI [10.1073/PNAS.1717762115](https://doi.org/10.1073/PNAS.1717762115) Citations: 57.

3) Günther, T.,* **Valdiosera, C.**,* Malmström, H., ... Jakobsson, M^(CA). (2015) Ancient Genomes link early farmers from Atapuerca in Spain to modern-day Basques. *PNAS*, 112(38): 11917-22. ***These authors contributed equally.** (1/19) DOI [10.1073/PNAS.1509851112](https://doi.org/10.1073/PNAS.1509851112) Citations: 143

4) Rasmussen, M., Sikora, M., Albrechtsen, A.,... Willerslev, E^(CA).. (2015) The ancestry and affiliations of Kennewick Man. *Nature* 523, 455-458. DOI [10.1038/NATURE14625](https://doi.org/10.1038/NATURE14625) Citations: 156 (12/19).

5) Raghavan M*, Steinrücken M*, **Valdiosera C***, ... Willerslev E^(CA). (2015) Genomic evidence for the Pleistocene and recent population history of Native Americans. *Science*, 349 (6250) aab3884; ***These authors contributed equally (1/100)** DOI [10.1126/SCIENCE.AAB3884](https://doi.org/10.1126/SCIENCE.AAB3884) Citations: 317

6) Skoglund P, Malmström H, Omrak A,...Jakobsson M^(CA). (2014) Genomic diversity and admixture differs for Stone-Age Scandinavian foragers and farmers. *Science*, 16; 344 (6185):747-50. (5/15) DOI [10.1126/SCIENCE.1253448](https://doi.org/10.1126/SCIENCE.1253448) Citations: 210.

7) J. Dabney, M. Knapp, I. Glocke, ... M. Meyer^(CA). (2013) Complete mitochondrial genome sequence of a Middle Pleistocene cave bear reconstructed from ultrashort DNA fragments. *PNAS*. 110(39): 15758-63. (7/11) DOI [10.1073/PNAS.1314445110](https://doi.org/10.1073/PNAS.1314445110) Citations: 778

(8) M.L. Carpenter, J.D. Buenrostro*, **C. Valdiosera***, ... C.D. Bustamante^(CA). (2013) Pulling out the 1%: Whole-Genome Capture for the Targeted Enrichment of Ancient DNA Sequencing Libraries. *The American Journal of Human Genetics*. 7;93(5):852-64. ***These authors contributed equally. (2/23)** DOI [10.1016/J.AJHG.2013.10.002](https://doi.org/10.1016/J.AJHG.2013.10.002) Citations: 207

9) **Valdiosera, C^(CA)**, Garitagoitia, J.L., García, ... A. Götherström. (2008) Surprising migration and population size dynamics. *PNAS*. 105 (13) 5123-5128. **(1/11) This publication featured the cover of the journal.** DOI [10.1073/PNAS.0712223105](https://doi.org/10.1073/PNAS.0712223105) Citations:89

10) **C. Valdiosera^(CA)**, N. García, C. Anderung,...I. Barnes. (2007) Staying Out in The Cold: Glacial Refugia and Mitochondrial DNA Phylogeography in ancient European Brown Bears. *Molecular Ecology* 16 (24) 5140 – 5148. **(1/12). This publication featured the cover of the journal.** DOI [10.1111/J.1365-294X.2007.03590.X](https://doi.org/10.1111/J.1365-294X.2007.03590.X) Citations:101

C.2. Congress - The following includes **first author oral presentations** at conferences **only**. Keynote and invited presentations are noted.

1. Valdiosera, C. Early Holocene Population Dynamics in European Brown Bears. International Conference of Archaeozoology (ICAZ) 2006, Mexico City, Mexico. Oral Presentation

2. Valdiosera, C. Glacial Refugia: phylogeographic patterns in ancient European brown bears based on mitochondrial DNA. International Union for Prehistoric and Protohistoric Sciences (UISPP) XV Congreso, 2006, Lisbon, Portugal. Oral Presentation

3. Valdiosera, C. The Genetic Traces of the First Americans: insights from Ancient DNA. American Quaternary Association (AMQUA) Biennial Meeting, Laramie, Wyoming, USA. 2010 (**invited talk**)

4. Valdiosera, C. Tracking the Genetic Origins of the First Americans: 4th International Symposium of Biomolecular Archaeology (ISBA4). Copenhagen, Denmark. 2010. Oral Presentation

5. Valdiosera, C. V International Symposium “Early man in America: a hundred years since the Ameghino-Hrdlicka debate (1910-2010), La Plata, Argentina. 2010. Oral Presentation

6. Valdiosera, C. Applications from ancient DNA: from pre-Neandertal Europe to the earliest human migratons in the Americas. Conference on Australasian Vertebrate Evolution Palaeontology and Systematics, Perth, Australia, 2011. Oral Presentation

7. **Valdiosera, C.** Reconstructing the genetic past of Carnivores in Europe and humans in the Americas. VIII Congreso Latinoamericano de Paleontología. Guanajuato, México. 2013 (**Invited keynote presentation**).

8. **Valdiosera, C.** The spread of farming across the Mediterranean to Iberia and its role in shaping ancient and modern European genomes. The Symposium of Molecular Biology and Evolution (SMBE). Gold Coast, Australia. 2016. Oral Presentation

C.3. Research projects - FELLOWSHIPS AND AWARDS

- 2022-2025 Geology, Geochronology and Palaeobiology of the Pleistocene sites of the Sierra de Atapuerca, VIII. PID2021-122355NB-C31 (Ministerio de Ciencia e Innovación). Universidad Complutense de Madrid. (€330K) **Researcher/Ancient DNA**.
- 2020 – 2025 Ramón y Cajal (RYC2018-025223-I), University of Burgos. State Program for the Promotion of Talent and its Employability of the State Plan for Scientific and Technical Research and Innovation 2017-2020 (€309K). **Personal Grant**.
- 2021-2024 Australian Research Council (ARC) – ARC Discovery Projects - Earliest Village People: the shift to sedentary life in the Natufian period (DP210102250). Faculty of Humanities and Social Sciences/ La Trobe University/ Australia. (~€100K) **Co-PI/Ancient DNA**
- 2017 – 2017 Out of the wild: Exploring Human innovation through the archaeogenetics of the Aurochs (*Bos primigenius*). Faculty of Humanities and Social Sciences/ Department of Archaeology and History, La Trobe University, Australia (€10.500). **PI/Ancient DNA**
- 2016 – 2016 Internal Research Grant, Faculty of Humanities and Social Sciences/ Department of Archaeology and History, La Trobe University/ Australia (€2.000). **PI/Ancient DNA**
- 2015 – 2016 Bridging Fellowship, Faculty of Humanities and Social Sciences/ Department of Archaeology and History, La Trobe University/ Australia. (~€62K) **PI/Ancient DNA**
- 2015 – 2015 Internal Research Grant, Faculty of Humanities and Social Sciences/Department of Archaeology and History, La Trobe University/ Australia (€2.000). **PI/Ancient DNA**
- 2013 – 2014 Transforming Human Societies Fellowship – Research Focus ERA, Faculty of Humanities and Social Sciences/ Department of Archaeology and History, La Trobe University/ Australia. (~€48K) **PI/Ancient DNA**
- 2010 – 2012 Marie Curie Intra-European Fellowship – PIEF-GA-2009-255503 – Center for GeoGenetics, University of Copenhagen, Denmark (€209K). **PI/Ancient DNA**
- 2009 – 2012 Programme of Excellence in Macroecology and Evolution – University of Copenhagen. (€55K) **Personal Grant**
- 2008 – 2009 Fundación Atapuerca, Universidad Complutense de Madrid. **Personal Grant**.
- 2004 – 2005 Fundación Oso Pardo. Principado de Asturias (Consejería de Medio Ambiente). Conservation of the brown bear (*Ursus arctos*) in the Iberian Peninsula through ancient mitochondrial and nuclear DNA. Centro Mixto UCM-ISCI III de Evolución y Comportamiento Humanos. (€64.205) **Researcher/Ancient DNA**.
- 2003 - 2009 Geology, Geochronology and Palaeobiology of the Pleistocene sites of the Sierra de Atapuerca, II, III. BOS 2003-08938-C03-01, CGL 2006-13532-CO3-02 (Ministerio de Ciencia e Innovación) (€589K), (€652). **Researcher/Ancient DNA**.
- 2003 – 2007 Program of pre-doctoral training between Universities and the Ministry of Sciences in Spain/Consejo Superior de Investigaciones Científicas (CSIC). Universidad Complutense de Madrid. **Personal Grant**.