

CURRICULUM VITAE ABREVIADO (CVA)

Part A. PERSONAL INFORMATION

First name	MARIA MARTA		
Family name	LÓPEZ ALONSO		
Gender (*)	Female	Birth date	06/10/1971
Social Security, Passport, ID number	33322193T		
e-mail	marta.lopez.alonso@usc.es	URL Web	https://investigacion.usc.gal/investigadores/59433/detalle
Open Researcher and Contributor ID (ORCID) (*)	http://orcid.org/0000-0001-6426-4273		

(*) *Mandatory*

A.1. Current position

Position	Full Professor		
Initial date	21/03/2023		
Institution	University of Santiago de Compostela (USC),		
Department/Center	Department of Animal Pathology	Faculty of Veterinary Science. Lugo.	
Country	Spain	Teleph. number	982 822 621
Key words	Trace and toxic metals, mineral metabolism, seaweed, organic farming		

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

Period	Position/Institution/Country/Interruption cause
10/1994-12/1998	FPU scholarship. USC. Spain
05/1999-10/2003	Assistant Professor. USC. Spain
10/2003-03/2023	Associate Professor. USC. Spain
2003-2004	Panel Undesirable substances in animal feed-section: heavy metals (USAF-HM). EFSA (European Food Safety Authority). European Union.
2015-2018 2018-2021	Panel on Additives and Products or Substances used in Animal Feed (FEEDAP). EFSA (European Food Safety Authority). European Union.

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Bachelor in Veterinary Science	University of Santiago de Compostela	1994
Bachelor Degree of Veterinary (MS). Mode: thesis.	University of Santiago de Compostela	1995
Doctoral Thesis in Veterinary (PhD)	University of Santiago de Compostela	1999

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



Scientific contributions:

I've been working in the field of mineral (trace and toxic elements) metabolism in ruminants since 1995 (MSc and PhD). After that I developed a coherent and defined line of research, with several research projects (15, 6 as main researcher), numerous JCR publications (761) and with the collaboration of international and national researches.

Contributions to society

My main contribution to the society is as expert in the European Food Safety Authority (EFSA): Expert within the Panel (i) Undesirable substances in animal feed-section: heavy metals (USAF-HM) and (ii) Additives and Products or Substances used in Animal Feed (FEEDAP). To carry out its work, EFSA has the scientific advice of the most relevant experts at European level in the different fields of action. Participation in Panels or Committees of experts is carried out by competitive selection within an open public call.

Training of young researchers

I supervised the work of 15 PhD students (9 in the last 8 years). With more than 50 JCR papers from these Thesis. Ten of these researchers are currently assistant and associate professors at universities in Argentina, Brazil, Ecuador, Ireland and Spain. Others are professionals from public and private companies.

IN SUMMARY MY CV

Teaching experience

5 Five-years teaching periods recognised, last one 2020

Research experience

4 Six-years research periods recognised, last one 2019

Training in the protection of animals used, raised or supplied for the purpose of experimentation and other scientific purposes, including teaching according to the ECC/566/2015: status b, c, d, e y f.

Research experience: Research projects

International projects: 1

Nacional projects: 4 (3 main researcher)

Autonomic projects: 10 (2 main researcher)

Research experience: Directed research works

PhD directed: 15 (5 International Doctorate)

PhD in development: 3

Bachelor Degree (thesis mode): 6

Research supervised works- end of master works: 23

Research experience: Publications

International Publications in JCR journals: 761

Chapters in international books: 11

National Publications: 61

Research experience: Contributions to Congresses

Presentations at congresses by invitation: 8

Communications and posters in International Congresses: 120

Communications and posters in National Congresses: 62

Stays in Research Centers

International centers: 9 stays- 54 weeks

Referee scientific journals JCR

Referee from 2004: >150 papers

Evaluation tasks

Evaluation of Research Projects National I+D+I programme (Spain)

Evaluation of Research Projects Programme I+D+I FCT (Fundação para a Ciência e a Tecnologia), Portugal

Honors and Awards

5 research awards

1 teaching innovation award

Transfer merits

1 Six-years periods recognised, last one 2016

Patents



Number: P201331512. Country of priority: Spain. Date of priority: 15/04/2015.
Grant date: 15/01/2016. Grant number: 201331512

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions)

- López-Gálvez G, **López-Alonso M**, Pechova, A, Mayo B, Dierick N, Gropp, J. (2021). Alternatives to antibiotics and trace elements (copper and zinc) to improve gut health and zootechnical parameters in piglets: A review. *Animal Feed Science and Technology*. 271, 114727. <https://doi.org/10.1016/j.anifeedsci.2020.114727> (2/6) 30 citations
- Larrán B, Miranda M, Herrero-Latorre C, Rigueira L, Pereira V, Suárez ML, **López-Alonso M**. 2021. Influence of haemolysis on the mineral profile of cattle serum. *Animals*. 11(12):3336. <https://doi.org/10.3390/ani11123336> (7/7) 2 citation
- Albuquerque FEA, Minervino AHH, Miranda M, **López-Alonso M**. 2020. Toxic and essential trace element concentrations in fish species in the Lower Amazon, Brazil. *The Science of the Total Environment*. 732, 138983. <https://doi.org/10.1016/j.scitotenv.2020.138983> (9/9) 26 citations
- Cedeño Y, Miranda M, Orjales I, Herrero-Latorre C, Suárez M, Luna D, **López-Alonso M**. 2020. Serum Concentrations of Essential Trace and Toxic Elements in Healthy and Disease-Affected Dogs. *Animals* 10 (7), 1052. <https://doi.org/10.3390/ani10061052> (7/7) 7
- Rodríguez-Bermúdez R, **López-Alonso M**, Miranda M, Fouz R, Orjales I, Herrero-Latorre C. 2018. Chemometric authentication of organic milk on the basis of its trace element content. *Food Chemistry*. 240: 686-693. <http://dx.doi.org/10.1016/j.foodchem.2017.08.011> (2/6) 46 citations
- Orjales I, Herrero-Latorre C, Miranda M, Rey-Crespo F, Rodríguez-Bermúdez R, **López-Alonso M**. 2018. Evaluation of trace element status of organic dairy cattle. *Animal*. 12(6): 1296-1305. <https://doi.org/10.1017/S1751731117002890> (6/6) 26 citations
- EFSA FEEDAP Panel (EFSA Panel on Additives and Products or Substances used in Animal Feed), 2016. Scientific opinion on the revision of the currently authorised maximum copper content in complete feed. *EFSA Journal* 2016;14(8):4563, 100 pp. <https://doi.org/10.2903/j.efsa.2016.4563> Citations: 48
- **López-Alonso M**, Rey-Crespo F, Orjales I, Rodríguez R; Miranda M. (2016). Effects of different strategies of mineral supplementation (marine algae alone or combined with rumen boluses) in organic dairy systems. *Journal of Animal Physiology and Animal Nutrition*. 100, 836-843. <https://doi.org/10.1111/jpn.12449> (1/5) 7 citations
- EFSA FEEDAP Panel (EFSA Panel on Additives and Products or Substances used in Animal Feed), 2014. *Scientific Opinion on the potential reduction of the currently authorised maximum zinc content in complete feed*. *EFSA Journal* 2014;12(5):3668, 77 pp. <https://doi.org/10.2903/j.efsa.2014.3668> Citations: 30
- Rey-Crespo F, **López-Alonso M**, Miranda M. 2014. The use of seaweed from the Galician coast as a mineral supplement in organic dairy cattle. *Animal*. 8(4): 580-586. <https://doi.org/10.1017/S1751731113002474> (2/3). 41 citations

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

- *Keynote*: Marta López-Alonso. Trace element concentrations in feed ingredients: previously overlooked, now under the spotlight. EAAP – 74th Annual Meeting of the European Federation of Animal Science, Lyon, France, September 2023.
- *Invited conference*: Marta López-Alonso. THE 5th ANIMINE ACADEMY. Animal sourced foods to fulfill mineral requirements of human populations. Lyon, September 2023.
- *Oral presentation*: **López-Alonso M**, Rivas I, Miranda M. Selenium supply in animal feeds, a powerful nutritional tool against cancer. EAAP – 74th Annual Meeting of the European Federation of Animal Science, Lyon, France, September 2023.
- *Oral presentation*: Miranda M, Rigueira L, Pereira V, **López-Alonso M**. 2019. Fertilidad y microminerales: un problema subestimado. XXIV Congreso Internacional ANEMBE de Medicina Bovina. Sevilla, Spain. May 2019. Prize for the best oral presentation.



- *Poster presentation:* Orjales I, Miranda M, Rodríguez-Bermúdez R, Pereira V, **López-Alonso M.** 2018. Evaluation of trace element status of organic dairy cattle. 30th World Buiatrics Congress, Sapporo, Japan. August-September 2018.

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

- Project title: “Grupo de Potencial Crecimiento financed by GAIN (Axencia Galega de Innovación). Xunta de Galicia (grant number ED431B 2023/008)”.
Institution: Xunta de Galicia.
Duration: from: 01/01/2023 to: 25/11/2025 Amount: 90.000 €
Main researcher: Marta López-Alonso (USC). Involvement: Head of research
- Project title: “Grupo Operativo TIRAC: técnicas innovadoras para la reducción de antibióticos en cunicultura - GRUPOS OPERATIVOS 2020”.
Institution: Fondos FEADER. Programa Nacional de Desarrollo Rural 2014-2020.
Duration: from: 24/04/2021 to: 15/03/2023 Amount: 492.580,38 €
Main researcher: Marta López-Alonso (USC). Involvement: Head of research
1 PhD (defense June 2024): 6 papers JCR. 2 papers in development
- Project title: “Gestión y Producción Sostenible de Biorrecursos (BioReDes) Agrupaciones Estratégicas 2018 (2018-PG099)”.
Institution: Xunta de Galicia
Duration: from: 01/01/2018 to: 31/12/2020 Amount: 405.759,16 €
Main researcher: Paulino Martínez Portela. Involvement: researcher
- Project title: “Ecotoxicological monitoring of mineral exploration areas in the Western region of the state of Pará using aquatic animal models”.
Institution: CAPES (Brasil)
Duration: from: 01/07/2014 to: 31/06/2017 Amount: R\$ 149.530 (42.200 €)
Main researcher: H. Minervino (Brasil). Marta López-Alonso (Spain). Involvement: Head of research (Spain)
1 PhD (Dr Albuquerque): 4 papers JCR. 2 papers in development
- Project title: “Situación nutricional del ganado vacuno lechero en producción ecológica del Norte de España. Comparación con los sistemas convencionales”.
Institution: Ministerio de Ciencia e Innovación (AGL2010-21026). Spain
Duration: from: 01/01/2011 to: 31/12/2014 Amount: 72600,00 euros
Head research: Marta López-Alonso. Involvement: Head of research
Formation of 4 PhD (Dr. Rey-Crespo, Dra. Orjales, Dra. Rodriguez, Dr. Luna): 20 JCR

C.4. Contracts, technological or transfer merits, Include patents and other industrial or intellectual property activities (contracts, licenses, agreements, etc.) in which you have collaborated. Indicate: a) the order of signature of authors; b) reference; c) title; d) priority countries; e) date; f) Entity and companies that exploit the patent or similar information, if any

Patents

Inventors (in order of signature): **López-Alonso M**; Miranda M; Rey-Crespo F

Title: Suplemento mineral a base de algas para incrementar los niveles de yodo y selenio en la dieta animal y en los productos derivados de los mismos

Number: P201331512. Country of priority: Spain. Date of priority: 15/04/2015.

Grant date: 15/01/2016. Grant number: 201331512

Holder: University of Santiago de Compostela and Agrifood technology center of Lugo CETAL

Contracts with companies and technology transfer

- Alimentación de precisión para la reducción del impacto medioambiental del vacuno lechero (ALIVAC)- CDTI (2021-CE186). Company: De Heus Nutricion Animal, SAU. 01/04/2021-31/03/2023. Amount: 20.340,10 €. Main researcher: Marta López Alonso.
- Field study of multimin in Spain and advice on mineral metabolisms in cattle (2021-CE087) Company: Warburton Technology Limited. 29/04/2021 to 28/04/2023 Amount: 15.203,00 € Main researcher: Marta Miranda. Involvement: researcher