



CURRICULUM VITAE ABREVIADO (CVA)

Part A. PERSONAL INFORMATION

First name	Antonio Juan		
Family name	García Fernández		
Gender (*)	Male	Birth date (dd/mm/yyyy)	
Social Security, Passport, ID number			
e-mail		https://www.sertoxmur.com/?page_id=4250	
Open Researcher and Contributor ID (ORCID) (*)	0000-0003-2808-4560		

(*) *Mandatory*

A.1. Current position

Position	Professor (Catedrático de Universidad)		
Initial date	8th October 2008		
Institution	University of Murcia		
Department/Center	Health Sciences		
Country	Spain	Teleph. number	
Key words	Toxicology, Ecotoxicology, Environmental Toxicology		

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

Period	Position/Institution/Country/Interruption cause
23 th /Aug/1997 – 8 th /Oct/2008	Assistant Professor (Prof. Titular), University Murcia, Spain
2 nd /Mar/1992 – 22 nd /Aug/1997	Lecturer (Prof. Ayudante), University of Murcia, Spain

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
DVM – Dr in Veterinary Medicine	University of Murcia, Spain	1990
PhD in Veterinary Science	University of Murcia, Spain	1994

Part B. CV SUMMARY

1. SCIENTIFIC CONTRIBUTIONS: Antonio J. García Fernández, Professor of the Sociosanitary Sciences Department, began his research career in 1992, investigating the exposure and effects of heavy metals in several species of wild birds. Since then, his two main research lines have been focused on “*Animals as sentinels of environmental risks for the human and animal health*”, and “*Alternative in vivo and in vitro methods to assess exposure and effects of environmental contaminants*” (since 1996). As researcher he has been particularly interested in how different vertebrate species (including humans and wildlife) respond to chemicals, mainly environmental contaminants (legacy and emergent). He is entirely convinced of the importance of wildlife, and especially wild birds, as sentinels of environmental hazards to human and animal health. During the last 30 years he has focused on his research on the consequences associated to the exposure to heavy metals, pesticides, veterinary and human medicines (particularly antibiotics and NSAIDs), and industrial contaminants such as bisphenols. Link to UMU webpage: <https://portalinvestigacion.um.es/investigadores/332105/detalle>

Competitive research projects: Participation in 23 research projects, 12 of them as Principal Investigator (PI): 1 CONSOLIDER-INGENIO (PI at UM), 8 National Plan for R+D+i (5 as PI), 7 regional (4 as PI), 3 projects from the Spanish Ministry of Environment, and 2 European LIFE+ Project (as PI at UM). Many of them are about environmental pollution and toxicology, and most of them about the use of sentinel species for human and animal health risks.

Funding obtained: Prof. García has received for his research **€4.93M**, in funding since 1997 (€4.54M through competitive public projects and €355.21k through research contracts with private and public companies).

Publications (ORCID 0000-0003-2808-4560): He is author/co-author of 153 scientific publications, more than 50% of them are published in Q1 journals; his h-index is 34 (SCOPUS). In 57% of the papers is preferent author; 49% of documents co-authored with researchers in other countries/regions; 40% of documents in the top 25% most cited worldwide; 72% of documents in the top 25% journals by CiteScore (SCOPUS). Total citations: 3,599 by 2,266 documents (SCOPUS). He has presented 340 contributions to international and national congresses.

In 2024 and 2025, Prof. Antonio Juan García has been included in the 2% of the most influential authors in field *Biomedical Sciences* (subfield 1 *Environmental Sciences*, and subfield 2 *Toxicology*) according to the "World's Top 2% Scientists" list, compiled by Stanford University in collaboration with Elsevier (<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>).

Research leadership:

- Principal Investigator of the Toxicology Research Group UM (<http://www.um.es/web/grupo-toxicologia/>) since 1998 onwards
- Leader of the IMIB-Pascual Parrilla Research Group "Toxicology and Risk Assessment" (toxirisk.imib.es/) since 2017 onwards.
- Chair of the Commission for Ethics in Research at UM (2014-2018), and member since 2020 onwards.
- Member of the Interministerial Commission for Human Biomonitoring (CIBMH), Ministerio de Sanidad (Orden PCM/1049/2022) since 2023 onwards.
- Chair - Deontological Commission of the Official College of Veterinarians of Murcia since 2020 onwards.
- Member of the Scientific-Technical Commission of the Official College of Veterinarians of Murcia since 2022 onwards.
- Deputy President of the Commission for the Verification of Bachelor's and Master's Degrees in Health Sciences of the Generalitat Valenciana since 2024 onwards.
- Head of the Forensic Toxicology Unit of the Forensic Sciences and Techniques Service of the UM since 2012 onwards.
- Vice-rector for Research at UM (2014-2018).
- Chair - Committee for Ethics in Animal Experimentation at UM (2014-2018)
- Member - Steering Committee of the Biomedical Research Institute of Murcia IMIB-Pascual Parrilla (2015-2018)

International scientific collaborations and leadership:

- ESF Networking Programme through EURAPMON (European Science Foundation) as member of the Steering Committee representing MICINN (2010-2015)
- COST-Action ERBFacility (2017- 2022). Scientific Grant Holder and the Spanish Representatives in the Management Committee. He was also leader of the Working Group focused in the Analyses of PPP, pharmaceuticals and biocides in samples of birds of prey.
- COST-Action ENVIRANT (2024-2028). Spanish Representatives in the Management Committee.
- COST-Action SafeGameMeat (2023-2027). Member of the Working Group of chemical risks of game meat.

2. CONTRIBUTIONS TO SOCIETY: Regarding its activity of transfer to society, he found in 1997 SertoxMur (<https://www.sertoxmur.com/>) with the aim of helping to veterinarians in the diagnosis of animal poisoning through toxicological analyses and expert reports, and on the other hand to offer his expertise in the design of biomonitoring schemes using wildlife species as sentinels of environmental contaminants. The STVF is a pioneer in this applied field of veterinary toxicology. In this task, he has been involved in the search for better analytical tools for the diagnosis of poisoning and for biomonitoring studies with sentinel animals and humans. He has participated in the development of various protocols and guides at regional, national and European levels related to wildlife poisoning (veneneno.org), sampling of wild birds as sentinels, etc. He is also the Head of the Unit of Forensic Toxicology of SECyTeF (<http://www.um.es/web/forenses/>). Since 2019, he has been participating annually as a trainer in the training course for SEPRONA agents (Guardia Civil) in the investigation of poisonings of protected fauna. He has contracted 21 scientific contracts (all as PI) with public

institutions, and 15 (all as PI) with private enterprises and NGOs. Prof. García has obtained more than €755.00K in contracts. In 2022 he was awarded with the Cross of the Order of Merit of the Civil Guard, and with the "Belinchón Valera" award for the development of veterinary sciences (Official College of Veterinarians of the Region of Murcia).

3. CONTRIBUTIONS TO THE TRAINING OF YOUNG RESEARCHERS: He has supervised the Doctoral Theses of 14 researchers (6 of them in the last 10 years, and 6 of them with International mention and 2 with Extraordinary Doctorate Award). The majority of his PhD students are currently working in research activities. He has also supervised 50 Master Theses. He has been supervisor of postdoctoral researchers JdC-Incorporación and Formación, as well as visitant pre and postdoctoral researchers from United States, Brazil, France, Mexico, Colombia, Argentina, Chile and Romania. He has been the Thesis' Supervisor of all professors of Toxicology Area at the UM (4 assistant professors and 4 associate professors).

Part C. RELEVANT MERITS

C.1. Publications (selection of 33 scientific publications since 2020 onwards)

1. Blanco, G., Navas, I., et al., García-Fernández, A.J. Metals in feathers of the red-billed chough as a sentinel of exposure to past and recent volcanic activity in La Palma, Canary Islands. *Environmental Research* 287: 123033.
2. Cañizares-Lara, M., Espín, S., García-Fernández, A.J., et al. 2025. Bioaccumulation of organochlorine compounds and infection by blood parasites of birds from Hermanas Mirabal Province, Dominican Republic. *Ardeola* 72(2), 311-327.
3. Spadetto, L., et al., García-Fernández, A.J. 2025. Exploring anticoagulant rodenticide exposure and effects in eagle owl (*Bubo bubo*) nestlings from a Mediterranean semiarid region. *Environmental Research* 264: 120382.
4. Nicolas, O., et al. García-Fernández, A.J., Navas, I., Margalida, A., Sacristán, C. 2024. Environmental contamination by veterinary medicinal products and their implications in the conservation of the endangered Pyrenean Capercaillie (*Tetrao urogallus aquianicus*). *Ecotoxicology and Environmental Safety* 288: 117299.
5. Spadetto, L., García-Fernández, A.J., et al. 2024. Comparing anticoagulant rodenticide exposure in barn owl (*Tyto alba*) and common kestrel (*Falco tinnunculus*): a biomonitoring study in an agricultural region of Southeastern Spain. *Environmental Pollution* 362: 124944.
6. Vicedo, T., Navas, I., María-Mojica, P., García-Fernández, A.J. 2024. Widespread use of anticoagulant rodenticides in agricultural and urban environments. A menace to the viability of the endangered Bonelli's eagle (*Aquila fasciata*) populations. *Environmental Pollution* 358: 124530
7. García-Fernández, A.J., María-Mojica, P., Navas, I. 2023. Avian Ecotoxicology. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 4, 31-43, Oxford UK: Elsevier, Academic Press, ISBN 9780323854344.
8. García-Fernández, A.J., María-Mojica, P., Navas, I. 2023. Oxalates. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 7, 211-219, Oxford UK: Elsevier ISBN 9780323854344.
9. García-Fernández, A.J., Carbonell, D., Navas, I. 2023. Hexachlorophene. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 5, 255-263, Oxford UK: Elsevier, Academic Press.
10. Navas, I., María-Mojica, P., García-Fernández, A.J. 2023. Propachlor. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 7, 921-928. Oxford UK: Elsevier, Academic Press.
11. Navas, I., Nieto, M.B., García-Fernández, A.J. 2023. Methyl isothiocyanate. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 6, 315-323. Oxford UK: Elsevier, Academic Press.
12. Navas, I., Pereira, E., García-Fernández, A.J. 2023. Bromethalin. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 2, 279-286. Oxford UK: Elsevier, Academic Press.
13. Navas, I., Chamorro, C., García-Fernández, A.J. 2023. Vinyl Fluoride. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 9, 761-768. Oxford UK: Elsevier, Academic Press, ISBN 9780323854344.
14. Nieto, M.B., García-Fernández, A.J., Navas, I. 2023. Asbestos. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 1, 821-830. Oxford UK: Elsevier ISBN 9780323854344.
15. Chamorro, C., Navas, I., García-Fernández, A.J. 2023. Mecoprop. In Wexler, P. (ed). *Encyclopedia of Toxicology*, 4th edition, vol 6, 61-71. Oxford UK: Elsevier, Academic Press, ISBN 9780323854344.
16. Gómez-Ramírez, P., Bustness, J.O., Eulaers, I., Johnsen, T.V., Lepoint, G., Pérez-García, J.M., García-Fernández, A.J., Espín, S., Jaspers, V.L.B. 2023. Mercury exposure in birds of prey from Norway: Relation to stable carbon and nitrogen isotope signatures in body feathers. *Bulletin of Environmental Contamination and Toxicology* 110(6).

17. Blanco G, Gómez-Ramírez P, Espín S, Sánchez-Virosta P, Frías O, García-Fernández AJ. 2023. Domestic waste and wastewaters as potential sources of pharmaceuticals in nestling white storks (*Ciconia ciconia*). *Antibiotics* 12(3): 520.
18. Blanco G, Gómez-Ramírez P, Lambertucci SA, Wiemeyer GM, Plaza PI, Hiraldo F, Donazar JA, Sánchez-Zapata JA, García-Fernández AJ. 2023. Unexpected exposure of Andean condors (*Vultur gryphus*) to pharmaceutical mixtures. *Biological Conservation* 280: 109964.
19. García-Fernández AJ, Espín S, Gómez-Ramírez P, Sánchez-Virosta P, Navas I. 2021. Water Quality and Contaminants of Emerging Concern (CECs). In K. Roy (ed), *Chemometrics and Cheminformatics in Aquatic Toxicology*. Wiley-Blackwell onLine Library, ISBN-978-1119681595
20. Quadri-Adrogué A, Gómez-Ramírez P, García-Fernández AJ, Seco-Pon JP, García GO, Miglioranza KSB. 2022. Feather mercury levels in beached Magellanic penguin (*Spheniscus magellanicus*) in northern Argentina during the breeding season. *Environmental Science and Pollution Research International* 29: 24793–24801.
21. Gómez-Ramírez P, et al, García-Fernández AJ. 2021. A 25 years overview of the contaminant exposure and effects in Eurasian Eagle-owl (*Bubo bubo*) from southern Spain. *AIRO* 29: 145-167.
22. Albertos S, et al., García-Fernández AJ. 2020. Mercury exposure in birds linked to marine ecosystems in western Mediterranean. *Archives of Environmental Contamination and Toxicology* 79: 435–453.
23. Arrondo E, et al., García-Fernández AJ, Sánchez-Zapata JA, Donazar JA. 2020. Dust and bullets: stable isotopes and GPS tracking disentangle lead sources for a large avian scavenger. *Environmental Pollution* 266: 115022.
24. Sánchez-Virosta P, et al., García-Fernández AJ, Espín S. 2020. Blood concentrations of 50 elements in Eagle owl (*Bubo bubo*) at different contamination scenarios and related effects on plasma vitamin levels. *Environmental Pollution* 265: 115012.
25. Gómez-Ramírez P, Blanco G, García-Fernández AJ. 2020. Validation of multi-residue method for quantification of antibiotics and NSAIDs in avian scavengers by using small amounts of plasma in HPLC-MS-TOF. *International Journal of Environmental Research and Public Health* 17: 4058.
26. Badry A, Krone O, Jaspers VLB, Mateo R, García-Fernández AJ, Leivits M, Shore RF. 2020. Towards harmonisation of chemical monitoring using avian apex predators: Identification of key species for pan-European biomonitoring. *Science of the Total Environment* 731: 139198.
27. Espín S, et al., García-Fernández AJ. 2020. Physiological effects of toxic elements on a wild nightjar species. *Environmental Pollution* 263: 114568.
28. Espín S, et al., García-Fernández AJ. 2020. Toxic elements in blood of red-necked nightjars (*Caprimulgus ruficollis*) inhabiting differently polluted environments. *Environmental Pollution* 262: 114334.
29. García-Fernández AJ. 2020. Ecotoxicological Risk Assessment in the context of different EU Regulations. In: Kunal Roy (ed.), *Ecotoxicological QSARs, Methods in Pharmacology and Toxicology*, Springer Protocols, Humana Press, NY, pp. 3-25.
30. García-Fernández AJ, et al. 2020. Wildlife Sentinels for Human and Environmental Health Hazards in Ecotoxicological Risk Assessment. In: Kunal Roy (ed.), *Ecotoxicological QSARs, Methods in Pharmacology and Toxicology*, Springer Protocols, Humana Press, NY, pp. 77-94.
31. Sánchez-Virosta P, Espín S, Ruíz S, Stauffer J, Kanerva M, García-Fernández AJ, Eeva T. 2020. Arsenic-related oxidative stress in experimentally dosed wild great tit nestlings. *Environmental Pollution* 259: 113813.
32. García-Fernández, AJ. & Navas, I. 2020. Riesgos Tóxicos de la Munición de Plomo y sus Alternativas en la Actividad Cinegética. Servicio de Toxicología y Veterinaria Forense, Universidad de Murcia, IMIB-Arrixaca, Murcia, España. 37 pp. DIGITUM-Biblioteca Universitaria. <http://hdl.handle.net/10201/89884>
33. García-Fernández, AJ, et al. 2020. Plomo en productos cárnicos de caza mayor: Estimación de riesgos por su consumo. Servicio de Toxicología y Veterinaria Forense, Universidad de Murcia, IMIB-Arrixaca, Murcia, España. 37 pp. DIGITUM-Biblioteca Universitaria. <http://hdl.handle.net/10201/77061>

C.2. Congresses (participations as speaker invited),

1. A.J. García-Fernández. 2025. Human health risk assessment of lead in sausages made with large game from the central and southern Iberian Peninsula. 1st SafeGameMeat Conference (Cost-Action-22166, SAFETY IN THE GAME MEAT CHAIN), Porto, Portugal, 25 May, 2025.
2. A.J. García-Fernández. 2023. Raptor poisoning: A complex phenomenon. European LIFE Egyptian Vulture Final Conference, Matera (Italy), 19 september 2023.
3. A.J. García-Fernández. 2023. Rodenticidas anticoagulantes como herramienta de gestión en sanidad ambiental aplicada. ANECPLA (Asociación Nacional de Empresas de Sanidad Ambiental), Madrid, 19 mayo 2023.
4. A.J. García-Fernández e I. Navas. 2022. Iniciativas europeas para monitorizar contaminantes a través de

- rapaces en el contexto de “Una sola salud”. XXIV Congreso Español de Toxicología y VIII Iberoamericano. Córdoba, 10 noviembre 2022.
5. A.J. García-Fernández. 2022. Contaminantes emergentes y regulados en fauna silvestre: Centinelas de riesgos para la salud humana y medioambiental (Conferencia plenaria). SETAC Argentina 2020 – 8º Congreso. Mar del Plata (Argentina), 9 marzo 2022.
 6. A.J. García-Fernández, I Navas, P María-Mojica, I Valverde, P Gómez-Ramírez, P Jiménez, S Espín, P. Sánchez-Virosta. 2021. A Review of Convicting Prosecutions for Wildlife Poisoning in Spain (1994-2020). SETACEurope 31th Annual Meeting. Virtual Conference, 3 May, 2021.
 7. A.J. García-Fernández. 2021. Toxicología Forense. Convenção Internacional Online em Medicina Veterinária Legal. Associação Brasileira de Medicina Veterinária Legal (ABMVL). Brazil (Brazil). 18 Outubro, 2020.
 8. A.J. García-Fernández. 2020. Biomonitorización de contaminantes ambientales en fauna silvestre. AMEQA, Ciudad de México (México), 24 septiembre 2020.
 9. A Badry, O Krone, VLB Jaspers, R Mateo, AJ García-Fernández, M Leivits, RF Shore. 2020. Towards harmonisation of chemical monitoring using avian apex predators: Identification of key species for pan-European biomonitoring SETAC Europe 30th Annual Meeting. Virtual Conference. 3-7 May, 2020.
 10. A.J. García-Fernández. 2019. Wildlife Toxicology within the context of One-Health. SETAC Latin America–13th Biennial Meeting. KEYNOTE SPEAKER. Cartagena Indias (Colombia), 18/09/2019.
 11. P Gómez-Ramírez, L Martínez-Quiles, L Spadetto, G Blanco, A.J. García-Fernández. 2019. Simultaneous determination of multiple antibiotics alerts on the occurrence of pharmaceutical cocktails in three vulture species from central Spain. SETAC Latin America 13th Biennial Meeting. Cartagena (Colombia). 15-18 September, 2019.
 12. A.J. García-Fernández. 2019. Evaluación de la toxicidad de contaminantes traza orgánicos en aguas residuales desde una perspectiva Europea. 1º Simposio NOVEDAR. Presencia y Eliminación de Microcontaminantes en Agua. Santiago de Compostela (España), 13-14 Junio 2019.
 13. A.J. García-Fernández. 2014. La veterinaria forense en la Universidad de Murcia. Iº Congreso Internacional de Medicina y Ciencias Veterinarias Forenses. Santiago de Chile (Chile), 10 diciembre 2014.
 14. A.J. García-Fernández. 2011. Plumbismo en especies de aves carroñeras. Congreso de Reintroducción del Quebrantahuesos. Cazorla, Noviembre 2011.
 15. A.J. García-Fernández. 2009. Efectos ecotoxicológicos de los microcontaminantes orgánicos. III Jornada sobre Gestión y Tratamiento de Lodos de EDAR. Organiza PROCITEC (Univ. Barcelona), Barcelona, 8 Julio 2009.
 16. AJ. García-Fernández. 2009. Animales centinelas de riesgos para la salud humana y ambiental. Mesa redonda “Proyectos de Seguridad y Toxicología”. XVIII Congreso Español de Toxicología. Palma de Mallorca, 9 septiembre 2009.
 17. A.J. García-Fernández. Morphologic characterization of renal cell line exposed to low levels of lead and cadmium. XVI Congresso Brasileiro de Toxicologia. Belo Horizonte (Brazil), 10 octubre 2008.
 18. A.J. García-Fernández. Alternative methods for toxicological assessment of xenobiotic – In vitro evaluation. XVI Congresso Brasileiro de Toxicologia. Belo Horizonte (Brazil), 12 octubre 2008.

C.3. Research projects.

1. **PID2024-161894OB-C22.** Medición de residuos de antihelmínticos y aplicación de modelos centinela de contaminación ambiental en áreas ganaderas. Agencia Estatal de Investigación. Plan Nacional I+D+I. Proyectos de Generación del Conocimiento 2024. Proyecto Coordinado. **Principal Investigator** UM project.
2. **LIFE24-NAT-PT-LIFE EUROBUSTARD.** Cross-border protection of the Great Bustard and the Little Bustard in Europe. European Commission, LIFE projects. From October 2025 to September 2032. 22.957.555,88 €. **Principal Investigator** UM. Gran agreement in preparation.
3. **LIFE23-NAT-PT-LIFE SOS Pygargus.** Urgent conservation actions to sustain portuguese and transborder populations of the Montagus harrier. European Commission, LIFE projects. From September 2024 to August 2030. 10.753.468,00 €. **Principal Investigator** UM.
4. **ARRA-NoTaS.** New insights in the anticoagulant rodenticides risk assessment on non-target species. Financing: Fundación Séneca (CARM). From April 2019 to March 2022. 122.377 €. **Principal Investigator.** Programme: Programa: Ayudas a la realización de proyectos para el desarrollo de investigación científica y técnica por grupos competitivos 2018.
5. **COST Action CA16224** (2017-2022) ERBFacility (European Raptor Biomonitoring Facility). Scientific Grant Holder. Working Group 2: Biomonitoring and Analysis in Raptors of Plant Protection Products (neonicotinoids), Biocides (second generation anticoagulant rodenticides), and medicinal products (parasiticides, NSAIDs and livestock antibiotics). Financing: HORIZON 2020 - Programme for European

- Cooperation in Science and Technology. 200.000 €. **Leader of the WG2.**
6. **RECODEP.** Developing strategies against the poisoning of wildlife by controlling predation by conditioned chemical aversion. Financing: Ministerio de Economía y Competitividad. Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad. Investigador Principal: Rafael Mateo (IREC-CSIC-UCLM-JJCLM). 2014-2017. 180.000 €. **Researcher.**
 7. **Ref. 19481/PI/14. MASCA'2014.** Mejora de los procesos analíticos toxicológicos para la lucha contra el veneno y la monitorización de contaminantes emergentes (rodenticidas anticoagulantes y fármacos de uso veterinario) en rapaces. Financing: Fundación Séneca (CARM). From June 2015 to December 2018. 106.590 €. **Principal Investigator**
 8. **Ref. RNM 1925.** Conservando poblaciones amenazadas y procesos ecológicos a través de la gestión de especies cinegéticas: ungulados silvestres y grandes carroñeros en Andalucía. Financing: Junta de Andalucía. Proyectos de Excelencia (Promoción General del Conocimiento). Principal Investigators: José Antonio Donázar (EBD-CSIC) and José Antonio Sánchez Zapata (UMH). From 12/2013 to 12/2017. 184.000 €. **Researcher.**
 9. **EURAPMON.** Research and monitoring for and with raptors in Europe. Financing: Comisión de las Comunidades Europeas. From 24/04/2013 to 16/05/2015. Cuantía: 111.600,00 €. **Researcher**
 10. **Ref. CSD 2007-00055. NOVEDAR.** Concepción integral de la EDAR del siglo XXI. Desarrollo de tecnologías para el tratamiento y recuperación de recursos en aguas residuales. Financing: MEC (CONSOLIDER-INGENIO 2010). Participants: USC, UCA, UB, UC, UGi, Centro de Estudios e Investigaciones Técnicas de Guipúzcoa, U. Wageningen, U. Delft, UV and UMU. PI of the CONSOLIDER: Juan Lema Rodicio-USC. 2007-2013. 244.428,7 €. **Principal Investigator from UM.**
 11. **Ref. CGL-2008-4318/BOS. MASCA'2008.** Biomonitoring of environmental persistent contaminants using non-invasive samples from raptors and the use of in vitro bioassay to assess endocrine disruption induced by mixtures of contaminants. Financing: MICINN Plan Nacional I+D+i. From December 2008 to December 2011. 111.925 €. **Principal Investigator**

C.4. Contracts, technological or transfer merits,

1. Investigación de la inocuidad toxicológica de cultivos microbianos de aplicación en la industria alimentaria. Financing: El Pozo Alimentación S.A. From 6/03/2024 to 30/09/2024. 24.581,15 € **Principal Investigator.**
2. Desarrollo, adaptación y validación de métodos de análisis de biomarcadores de exposición a metales pesados en muestras de sangre y orina de origen humano. Fundación para la Formación e Investigación Sanitaria (FFIS). From 14/12/2023 to 31/03/2024. 12.100,00 € **Principal Investigator.**
3. Asesoría y apoyo científico-técnico en el análisis de contaminantes emergentes en muestras relacionadas con urogallos. Financing: Naturamusia Sociedad Civil Profesional. From 14/10/2022 to 31/12/2022. 13.648,80 € **Principal Investigator.**
4. Análisis químico-toxicológico de medicamentos en carroñeras. Financing: Universidad Pablo Olavide. From 10/01/2021 to 27/10/2021. 8.412,53 € **Principal Investigator.**
5. Análisis de metales pesados y residuos de medicamentos veterinarios en sangre y plumas de Buitre leonado (*Gyps fulvus*) del Parque Natural do Tejo Internacional (Portugal) muestreados en 2021. Financing: Quercus-Portugal. From 18/06/2021 to 01/11/2021. 8.000,00 € **Principal Investigator**
6. Lead and Non-Steroideal Anti-Inflammatory Drugs (NSAIDs) in Cinereous vultures (*Aegypus monachus*) from Greece. Financing: WWF GREECE. From 22/06/2021 to 23/09/2021. 5.000,00 €. **Principal Investigator**
7. Análisis, diagnóstico y asesoramiento toxicológicos en casos de mortandad de peces y organismos marinos en el Mar Menor. Financing: Consejería de Agua, Agricultura, Ganadería, Pesca y Medio Ambiente de la C.A. Región de Murcia. From 8/6/2020 to 30/6/2021. 18.128,82 € **Principal Investigator.**
8. Análisis de compuestos disruptores endocrinos (organofosforados y organoclorados) y creatinina en orina de mujeres embarazadas. Fundación para la Formación e Investigación Sanitaria (FFIS). From 30/10/2018 to 30/10/2019. 121.000,00 € **Principal Investigator.**
9. Estudio de impregnación de plomo en embutidos de especies cinegéticas. Financing: WWF España. From 18/04/2018 to 18/10/2018. 4.000,00 € **Principal Investigator.**
10. Análisis toxicológicos de supuestos envenenamientos de fauna silvestre de Castilla y León. Financing: Fundación Patrimonio Natural de Castilla y León. From 15/05/2018 to 31/12/19. 11.870,00 €. **Principal Investigator**
11. Contrato para determinaciones toxicológicas de muestras de presuntos venenos. Financing: Dirección General de Medio Natural y Evaluación Ambiental – Generalitat Valenciana. From 14/09/2018 to 31/12/2019. 6.776,00 €. **Principal Investigator**
12. Análisis e interpretación de resultados de muestras de contaminantes ambientales y venenos en fauna

silvestre. Financing: Orthem – Consejería de Agricultura, Agua y Medio Ambiente (CARM). From 18/01/2017 to 18/01/2022. 36.000,00 € **Principal Investigator**

13. Hábitat del lince ibérico y el buitre negro en el sureste de Portugal. (Estudios de contaminantes y medicamentos veterinarios). Financing: Liga para a Protecção da Natureza-LPN (Portugal). From 19/12/2013 to 30/6/2014. 14.500 €. **Principal Investigator**

14. Análisis de residuos de antibióticos en cadáveres de ungulados destinados al consumo por aves carroñeras. Financing: Liga para a Protecção da Natureza (LPN). From 31/1/2013 to 30/6/2013. 10.500 € **Principal Investigator**

En Murcia, a 6 de noviembre de 2025.

Fdo. Antonio Juan García Fernández