CURRICULUM VITAE

Date: 15/06/2022

Name:	Eduardo Berriatua Fernández de Larrea
Place and date of birth:	[redacted]
Closest family:	[redacted]
Academic degrees:	Veterinary Science, Doctor of Philosophy (PhD), Diplomate of the European Veterinary Parasitology College (DipEVPC).
Professional address:	Animal Health Dep., Murcia Veterinary School, 30100 Campus de Espinardo, Murcia, Spain
	[redacted]
Position held:	Professor of Animal Health.
Main research interest:	Epidemiology and control of diseases particularly parasitic.

Academic and previous professional positions

1984-89	Degree in Veterinary Science at Zaragoza University, Spain.
1989-93	PhD at Bristol University, UK. Thesis title: "An epidemiological study of ovine coccidiosis and the development of specific DNA probes for *Eimeria crandallis* and *Eimeria ovinoidalis*".
1994-96	Veterinary Surgeon at Endell Veterinary Practice, Salisbury, UK.
1996-99	Post-doctoral appointment at Liverpool University under the project: "The non-chemical control of the sheep scab mite, *Psoroptes ovis*; a systems modelling approach combining ecology, ethology and epidemiology".
1999-2005	Head of Veterinary Epidemiological research at the Basque Institute for Agricultural Research and Development (NEIKER), Spain.
2005-2009	Lecturer in Animal Health at the University of Murcia
2009-2011	Assistant professor in Animal Health at the University of Murcia
2011-	Professor in Animal Health at the University of Murcia

RESEARCH EXPERIENCE IN THE LAST 5 YEARS

Open call projects from Government Agencies and foundations.

2022-25 Climate Monitoring and Decision Support Framework for Sand Fly-borne Diseases Detection and Mitigation with COst-benefit and Climate-policy MeasureS. Uropean Union. HORIZON-HLTH-2021-ENVHLTH-02

2019-23 European network for the geographic distribution of arthropod vectors, transmitting human and animal disease agents –VectorNext. Budget: **PM.**

2013-20 Cooperative research network of tropical diseases (RICET) (RD12/0018/0003). Spanish Ministry of Science. Budget >100000 euros. PM.

2015-17 European network for the geographic distribution of arthropod vectors, transmitting human and animal disease agents –VectorNet. Budget: **PM.**

2013-17 New developments in the entomology, epidemiology and control of periurban leishmaniosis and in the pathogenesis of asymptomatic leishmania infections. Spanish Ministry of Science. Budget: 80000 euros. **PL**

2013-17 EURopean network for NEGlected vectors and VECtor-borne infections. Cost actionTD1303. Budget: 167000 euros. **PM**

Research contracts with private companies and government institutions.

2021 - Relationship between Leishmania spp. and sand fly vector spatial distributions in Europe and Neighboring countries. European centre for Disease Control and Prevention (ECDC)

2020 - Review of leishmaniosis in Europe and Neighboring countries. European centre for Disease Control and Prevention (ECDC)

2016-2019. Development of a recombinant vaccine for the prevention and treatment of canive leishmaniosis. Company: Bioorganic Research and Services SA. Other participants: Instituto de Parasitología y Biomedicina "Lopez Neyra", CSIC, Granada.

Scientific publications in international peer-reviewed journals.

Özbel Y, Töz S, Muñoz C, Ortuño M, Jumakanova Z, Pérez-Cutillas P, Maia C, Conceição C, Baneth G, Pereira A, Van der Stede Y, Gossner CM, Berriatua E. 2022. The current situation of Angiostrongylus vasorum in Romania: a national questionnairebased survey. Zoonoses Public Health. doi: 10.1111/zph.12977.

Braks M, Schaffner F, Medlock JM, Berriatua E, Balenghien T, Mihalca AD, Hendrickx G, Marsboom C, Van Bortel W, Smallegange RC, Sprong H, Gossner CM, Czwienczek E, Dhollander S, Briët O, Wint W.

2022. VectorNet: Putting Vectors on the Map. Front Public Health. Doi: 10.3389/fpubh.2022.809763. eCollection 2022.

Ortuño M, Muñoz C, Spitzová T, Sumova P, Iborra MA, Pérez-Cutillas P, Ayhan N, Charrel RN, Volf P, Berriatua E. 2022. Exposure to Phlebotomus perniciosus sandfly vectors is

positively associated with Toscana virus and Leishmania infantum infection in human blood donors in Murcia Region, southeast Spain. Transbound Emerg Dis. Doi: 10.1111/tbed.14520.

Deak G, Berriatua E, Mihalca A. 2021. The current situation of Angiostrongylus vasorum in Romania: a national questionnairebased survey. BMC Vet. Res. 17 (323). doi: https://doi.org/10.1186/s12917-021-03034-1.

Muñoz C, Risueño J, Pérez-Cutillas P, Bernal LJ, Ortiz JM, Ruiz de Ybáñez R, Sánchez-López PF, Martínez-Carrasco C, Del Río L, De la Rúa P, García-Martínez JD, Gonzálvez M, Murcia L, Collantes F, Goyena E, Spitzova T, Elshanat S, Berriatua E. 2021. Density assessment and reporting for Phlebotomus perniciosus and other sand fly species in periurban residential estates in Spain. Parasitol Res. 120(9):3091-3103. doi: 10.1007/s00436-021-07270-0.

Ortuño M, Nachum-Biala Y, García-Bocanegra I, Resa M, Berriatua E, Baneth G. 2021. An epidemiological study in wild carnivores from Spanish Mediterranean ecosystems reveals association between Leishmania infantum, Babesia spp. and Hepatozoon spp. infection and new hosts for Hepatozoon martis, Hepatozoon canis and Sarcocystis spp. Transbound Emerg Dis. doi: 10.1111/tbed.14199

Berriatua E, Maia C, Conceição C, Özbel Y, Töz S, Baneth G, Pérez-Cutillas P, Ortuño M, Muñoz C, Jumakanova Z, Pereira A, Rocha R, Monge-Maillo B, Gasimov E, Van der Stede Y, Torres G, Gossner CM. 2021. Leishmaniases in the European Union and Neighboring Countries. Emerg Infect Dis. 27(6). doi: 10.3201/eid2706.210239.

Muñoz C, Pérez-Cutillas, E Berriatua, J Ortiz. 2021. On how trap positioning affects phlebotomine sand fly density estimations. Med Vet Entomol, doi: 10.1111/mve.12501

Muñoz C, Gonzálvez M, Rojas A, Martínez-Carrasco C, Baneth G, Berriatua E, Ortiz J. 2020. Massive microfilaremia in a dog subclinically infected with Acanthocheilonema dracunculoides. Parasitol Int. Doi: 10.1016/j.parint.2020.102070.

Cazan, CD, Ionică, AM, Mate, IAi, D'Amico, G, Muñoz, C, Berriatua, E, Dumitrache, MO. 2020. Detection of Leishmania infantum DNA and antibodies against Anaplasma spp., Borrelia burgdorferi s.l. and Ehrlichia canis in a dog kennel in South-Central Romania. Acta Veterinaria Scandinavica . Doi: 10.1186/s13028-020-00540-4.

Muñoz C, Ayhan N, Ortuño M, Ortiz J, Gould EA, Maia C, Berriatua E, Charrel RN. 2020. Experimental Infection of Dogs With Toscana Virus and Sandfly Fever Sicilian Virus to Determine Their Potential as Possible Vertebrate Hosts. Microorganisms. 8(4):596. doi: 10.3390/microorganisms8040596.

Pérez-Cutillas P, Muñoz C, Martínez-de la Puente J, Figuerola J, Navarro R, Ortuño Bernal L.J., Ortiz J., Soriguer R.C., Berriatua E. 2020. A spatial ecology study in a high diversity host community to understand blood feeding behavior of Phlebotomus sandfly vectors of Leishmania. Medical and Veterinary Entomology. 34, 164-74. https://doi.org/10.1111/mve.12427

Ortuño M, Latrofa MS, Iborra MA, Pérez-Cutillas P, Bernal LJ, Risueño J, Muñoz C, Bernal A, Sánchez-Lopez PF, Segovia M, Annoscia G, Maia C, Cortes S, Campino L, Otranto D, Berriatua E. 2019. Genetic diversity and phylogenetic relationships between Leishmania infantum from dogs, humans and wildlife in south-east Spain. Zoonoses Public Health. doi: 10.1111/zph.12646.

Martínez-Rondán FJ, Ruiz de Ybáñez MR, López-Beceiro AM, Fidalgo LE, Berriatua E, Lahat L, Sacristán I, Oleaga Á, Martínez-Carrasco C. 2019. Cardiopulmonary nematode infections in wild canids: Does the key lie on host-prey-parasite evolution? Res Vet Sci. 126:51-58. doi: 10.1016/j.rvsc.2019.08.008. [

Muñoz C, Martínez-de la Puente J, Figuerola J, Pérez-Cutillas P, Navarro R, Ortuño M, Bernal LJ, Ortiz J, Soriguer R, Berriatua E. 2019. Molecular xenomonitoring and host identification of Leishmania sand fly vectors in a Mediterranean periurban wildlife park. Transbound Emerg Dis.

66(6):2546-2561doi: 10.1111/tbed.13319.

Muñoz-García CI, Guzmán-Cornejo C, Rendón-Franco E, Villanueva-García C, Sánchez-Montes S, Acosta-Gutierrez R, Romero-Callejas E, Díaz-López H, Martínez-Carrasco C, Berriatua E. 2019. Epidemiological study of ticks collected from the northern tamandua (Tamandua mexicana) and a literature review of ticks of Myrmecophagidae anteaters. Ticks Tick Borne Dis. 10(5):1146-1156. doi: 10.1016/j.ttbdis.2019.06.005. Epub 2019 Jun 8.

Muñoz-García CI, Sánchez-Montes S, Villanueva-García C, Romero-Callejas E, Díaz-López HM, Gordillo-Chávez EJ, Martínez-Carrasco C, Berriatua E, Rendón-Franco E. 2019. The role of sloths and anteaters as Leishmania spp. reservoirs: a review and a newly described natural infection of Leishmania mexicana in the northern anteater. Parasitol Res. doi: 10.1007/s00436-019-06253-6.

Raquel Crespo-Ginés, David S. López, Eduardo Berriatua, Guillermo Blanco, Mónica G. Candela, Juan M. Pérez-García. 2019. Coccidian prevalence and intensity in free-ranging and rehabilitating wild raptors. Ardeola-International Journal of Ornithology 66, 3-14. DOI: 10.13157/arla.66.1.2019.sc1

Muñoz-García CI, Berriatua E, Martínez-Carrasco C. 2018. What do we know about parasites of wildlife in high biodiversity areas with anthropogenic disturbance? The special case of Mexico. Anim Health Res Rev. 19(2):155-161. doi: 10.1017/S1466252318000087.

Risueño J, Spitzová T, Bernal LJ, Muñoz C, López MC, Thomas C, Infante JJ, Volf P, Berriatua E. 2018. Longitudinal monitoring of anti-saliva antibodies as markers of repellent efficacy to Phlebotomus perniciosus and P. papatasi in dogs. , Medical and Veterinary Entomology.

Muñoz-García CI, López-Díaz O, Osorio-Sarabia D, Martínez-Hernández F, Villalobos G, Isaak-Delgado AB, Rendón-Franco E, Carreño-Cervantes A, Contreras-Patiño DR, Berriatua E, Pleite CM. 2018. New insights into the clinico-histopathological and molecular features of Pelecitus (Filarioidea: Onchocercidae) from a raptor bird. Parasitology Research. In press.

Risueño J, Ortuño M, Pérez-Cutillas P, Goyena E, Maia C, Cortes S, Campino L, Bernal LJ, Muñoz C, Arcenillas I, Martínez-Rondán FJ, Gonzálvez M, Collantes F., Ortiz J, Martínez-Carrasco C, Berriatua E. 2018. Epidemiological and genetic studies suggest a common Leishmania infantum transmission cycle in wildlife, dogs and humans associated to vector abundance in Southeast Spain. Veterinary Parasitology, 259, 61-67.

Halada P, Hlavackova K, Risueño J, Berriatua E, Volf P, Dvorak V. 2018. Effect of trapping method on species identification of phlebotomine sandflies by MALDI-TOF MS protein profiling. Medical and Veterinary Entomology, 32, 388-92.

Laura Tomassone, Eduardo Berriatua, Rita De Sousa, Gerhard Georg Duscher, Andrei Daniel Mihalca, Cornelia Silaghi, Hein Sprong, Annetta Zintl. 2018. Neglected vector-borne zoonoses in Europe: Into the wild. Vet erinary Parasitology, 251, 17-26.

Muñoz, C, Risueño, J, Yilmaz, A, Pérez-Cutillas, P, Goyena, E, Ortuño, M, Bernal, L.J, Ortiz, J, Alten, B, Berriatua, E. 2017. Investigations of Phlebotomus perniciosus sand flies in rural Spain reveal strongly aggregated and gender-specific spatial distributions and advocate use of light-attraction traps. Medical and Veterinary Entomology. doi: 10.1111/mve.12275. Q1

Ledesma, L, Berriatua, E, Thomas, MC, Bernal, LJ, Ortuño, M, Benitez, C, Egui, A, Papasouliotis, K, Tennant, B, Chambers, J, Infante, JJ, López, MC. 2017. Performance of Leishmania PFR1 recombinant antigen in serological diagnosis of asymptomatic canine leishmaniosis by ELISA. BMC Veterinary Research, 13(1):304. doi: 10.1186/s12917-017-1224-z. Q1

Risueño J, Muñoz C., Pérez-Cutillas P., Goyena E., Gonzálvez M, Ortuño M, Bernal LJ, Ortiz J, Alten, B., Berriatua E. 2017. Understanding Phlebotomus perniciosus abundance in south-east Spain: assessing the role of environmental and anthropic factors. Parasites & Vectors.

Yilmaz H, Tekelioglu BK, Gurel A, Bamac OE, Ozturk GY, Cizmecigil UY, Tarakci EA, Aydin O, Yilmaz A, Berriatua E, Helps CR, Richt JA, Turan N. 2017. Frequency, clinicopathological features and phylogenetic analysis of feline morbillivirus in cats in Istanbul, Turkey. J Feline Med Surg.

Clara Jabal-Uriel, Raquel Martín-Hernández, Concepción Ornosa, Mariano Higes, Eduardo Berriatua and Pilar De la Rúa. 2017. First data on the prevalence and distribution of pathogens in bumblebees (Bombus terrestris and Bombus pascuorum) from Spain. Spanish Journal of Agricultural Research. Q3

Doctoral thesis supervised

Distribution and control of phlebotomine sand flies vectors of Leishmania infantum and prevalence of infection in wildlife in Murcia Region in Spain. By José Risueño. 19/07/2018, University of Murcia, Spain.

Epidemiological study of wildlife parasitosis in anthropized environments from Mexico. By Claudia Irais Muñoz García. 01/10/2020. University of Murcia, Spain.

Distribution, dispersion and blood-feeding preferences of Phlebotomus spp. (Diptera, Psychodidade) in microenvironments in southeast Spain: implications for transmission of Leishmania infantum. By Clara Muñoz Hernandez. 16/11/2020. University of Murcia, Spain.

Advances in the epidemiology of leishmaniosis in animals and humans: genetic diversity of Leishmania infantum, exposure to Phlebotomus perniciosus vector and coinfections with other pathogens. By María Ortuño Gil. 9/12/2022. University of Murcia, Spain.

Master in Science (MSc) thesis supervised

2016-17. Leishmania in reptiles, a rare parasite: a study in chelonians and saurians from Spain and Africa and in the vector Sergentomyia minuta. By Luisa Fernanda Jaramillo Ocampo at the University of Murcia.

2017-18. A study of parasitic infections in wild rabbits in Murcia Region. By Paula Bolivar Muñoz at the University of Murcia.

2018-19. Coccidial infections in wild rabbitis in Murcia Region. By Lucia Illera at the University of Murcia.

2018-19. Rocío Holgado Martín. An epidemiological study of flavivirus infections in birds in wildlife-farming interacting environments.

2018-19. María Resa Collados. The role of wild and domestic carnivors in the epidemiology of leishmaniosis in Mediterranean ecosystems in southern Spain.

2019-20. Carlos Estrella. Dynamics of exposure to Crimea Congo hemorragic fever virus in deer in Doñana National Parc.

2019-20. Araceli Plaza. Seroepidemiology of Toxoplasma Gondii infection in wild ungulates in the Parque Natural Sierras de Cazorla, Segura y las Villas.

2019-20. Inmaculada Soto Otón. A study of host availability for mosquitoes, vectors of faviviruses in wildlife-farming interacting environments

Scientific papers presented in international conferences and meetings.

Berriatua E. Epidemiology of canine and human leishmaniosis in Europe and neighbourhood: two sides of the same coin? Animal Leishmaniosis International Veterinary Event - ALIVE 2022 - Málaga, April 1st, 2022

Berriatua E. Aspectos epidemiológicos y entomológicos de la leishmaniosis en la Región de Murcia. Jornadas de Leishmaniosis. Consejería de Salud y Colegio de Veterinarios de Murcia. 5 de Octubre 2021. On-line presentation

Berriatua E. Epidemiological situation on leishmaniosis in the European Union and its neighbourhood. Annual Emerging and Vector-borne Diseases (EVD) Network Meeting, European Centre for Disease Prevention and Control (ECDC). May 19th, 2021. On-line presentation

Berriatua E. Sandfly distribution in Europe and neighboring countries. A literature review for 2016-20. VectorNet (European Network for Medical and Veterinary Entomology) Annual Meeting. Amersfoort, The Netherlands, 9th March 2020.

C. Muñoz, J. Martínez de la Puente, J. Figuerola, R. Navarro, M. Ortuño, R. Soriguer, J. Ortiz, E. Berriatua. City zoos in Mediterranean countries: a safe haven for Leishmania infantum? 15th International Symposium of Veterinary Epidemiology and Economics (ISVEE), Chiang Mai, Thailand. 12-16 November. 2018. Modality: oral communication.

M. Ortuño, J. Risueño, G. Annoscia, C. Muñoz, E. Goyena, C. Maia, S. Cortes, M.S. Latrofa, L. Campino,D. Otranto, E. Berriatua. Genetic diversity of Leishmania infantum suggest a common transmission cycle in humans, dogs and wildlife in Southeast Spain. 15th International Symposium of Veterinary Epidemiology and Economics (ISVEE), Chiang Mai, Thailand. 12-16 November 2018. Modality: poster presentation.

María Ortuño, José Risueño, Giada Annoscia, Clara Muñoz, Elena Goyena, Maria Stefania Latrofa, Domenico Otranto, Eduardo Berriatua. Unravelling relationships between Leishmania infantum infecting humans, dogs and wildlife from South-eastern Spain. 1st International Leishmaniasis Congress, Caparica, Portugal, 29-31 October, 2018. Modality: oral communication.

Clara Muñoz, Ricardo Navarro, María Ortuño, Juana Ortiz, Eduardo Berriatua. Phlebotomus sand fly distribution and preliminary results of Leishmania infantum infection rate in a zoological park. 1st International Leishmaniasis Congress, Caparica, Portugal, 29-31 October, 2018. Modality: oral communication.

M. Ortuño, J. Risueño, G. Annoscia, C. Muñoz, E. Goyena, M.S. Latrofa, D. Otranto, E. Berriatua. Relaciones filogenéticas entre aislados de Leishmania infantum procedentes de humanos, perros y fauna salvaje de España. IV Jornadas Doctorales de la Universidad de Murcia. 29 – 31 de mayo, 2018. Modality: oral communication.

Muñoz C., Risueño J., Gunay F., Goyena E., Gonzálvez M., Collantes F., Alten B., Ortiz J., Berriatua E. Distribución de especies de mosquitos (Diptera: Culicidae) en zonas rurales de la

Región de Murcia. IV Jornadas Doctorales de la Universidad de Murcia. 29 – 31 de mayo, 2018. Modality: poster communication.

Berriatua E. Quantifying the abundance and spatial distribution of Phlebotomus perniciosus vector of leishmania in a large and small geographical scale in southeast Spain. Short oral communication within the presentation of the major research achievements of sand fly group research by group leader Bulent Alten. Final meeting of Vectornet, Amberes, Bélgica, Febrero 27-Marzo 1, 2018.

Risueño J., Bernal L.J., Ortiz J., Sánchez-López P.F., Ortuño M., Goyena E., Pérez-Cutillas P., Muñoz C., Arcenillas I., Gonzálvez M., Martínez-Rondán, F.J.,Collantes F., Martínez-Carrasco C., Berriatua E. "detection and genotyping of leishmania infantumk dna in rodents, wild carnivores and lagomorphs in southeast spain" EurNegVec (COST) Final Meeting, Crete, Greece, 11-13/09/2017. Modality: oral communication.

Risueño J., Muñoz C., Yilmaz A., Pérez-Cutillas P., Goyena E., Ortuño M., BernalL. J.,Ortiz J., Alten B., Berriatua E."Small scale distribution of male and femalePhlebotomusperniciosusin rural areas in southeast Spain assesed using sticky and light traps" SOVE 7th Congress, Palma de Mallorca, Spain, 1-6/10/2017. Modality: poster.

Risueño J., Goyena E., Muñoz-Hernández C., BernalL. J., Ortiz J., Escribano F., Gens M. J., Martínez-Carrasco C., Berriatua E. "role of wildlife mammals in the epidemiological cycle of leishmania infantum in southeast Spain".WorldLeish 6th Congress, Toledo, Spain, 16-20/05/2017. Modality: poster.

Risueño J., Hlavačková K., HaladaP., Muñoz C., Volf P., Berriatua E., Dvořák V."comparison of MALDI-TOF protein profiling of phlebotomine sand flies captured by different field trapping methods"EurNegVec (COST) Final Meeting, Crete, Greece, 11-13/09/2017. Modality: poster.

María Ortuño Gil; Eduardo Berriatua Fernández de Larrea; Juana Mª Ortiz Sánchez; Elena Goyena Salgado; José Risueño Iranzo; Clara Muñoz Hernández. "Revisiting optical microscopy as a diagnostic tool in epidemiological studies of asymptomatic canine leishmaniosis". WorldLeish 6th Congress, Toledo, Spain, 16-20/05/2017. Modality: poster.

Ortuño M., Risueño J., Muñoz C., Bernal A., Ortiz J., Maia C., Cristovão J.M., Pereira A., Cortes S., Campino L., Berriatua E. "Intraspecific diversity of Leishmania infantum from human, domestic and wild animal hosts". EurNegVec (COST) Final Meeting, Crete, Greece, 11-13/09/2017. Modality: oral communication.

Ortuño M., Risueño J., Muñoz C., Bernal A., Goyena E., Ortiz J., Berriatua E. "Uncovering asymptomatic canine leishmaniosis. Is optical microscopy useful for diagnosing subclinical infections?". EurNegVec (COST) Final Meeting, Crete, Greece, 11-13/09/2017. Modality: poster.

Muñoz C., Ayhan N., Bernal L.J., Ortuño M., Ortiz J., Maia C., Berriatua E., Charrel R.N. "Viral and antibody kinetics in dogs experimentally infected with sandfly transmitted Toscana and Sicilian virus". COMUNICACIÓN ORAL. Final Conference on Neglected Vectors and Vector-Borne Diseases (EurNegVec): with MC and WG Meeting of the COST Action TD1303. Creta (Grecia). 11 – 13 de septiembre 2017.

Muñoz C., Ayhan N., Risueño, J., Ortuño M., Ortiz J., Charrel R.N., Berriatua E. "Seroprevalence of Toscana and Sicilian virus in healthy blood donors from rural areas in southeast Spain". POSTER. Final Conference on Neglected Vectors and Vector-Borne Diseases (EurNegVec): with MC and WG Meeting of the COST Action TD1303. Creta (Grecia). 11 - 13de septiembre 2017.

Muñoz C., Risueño J., Berriatua E., Ortiz J. "Sand fly counts in sticky and light traps: the influence of trap height and proximity to a flat surface". POSTER. 7th International Congress of the Society for Vector Ecology. Palma de Mallorca (España). 01 – 06 de octubre 2017.

INDEPENDENT SCIENTIFIC REFERREING EXPERIENCE

Journals:
Medical and Veterinary Entomology
Veterinary Medicine, series B
Preventive Veterinary Medicine
Virus Research
Theriogenology
BMC Infectious Diseases
Parasite and Vectors
Veterinary Parasitology
Parasitology research
Microbes
Transboundary and emerging disease

Grant awarding bodies
ANEP-MCYT: Asociación Nacional de Evaluación y Prospectiva
BBSRC: Biotechnology and biological sciences research council

LECTURING EXPERIENCE

University lectures

2005- present	Lecturer in Veterinary Parasitic Diseases and Preventive Veterinary Medicine at the University of Murcia, Spain
2002-2005	University of the Basque Country. Postgraduate lectures on scientific study design and analysis.
2001-2006	University of Zaragoza. Postgraduate lectures on diseases of newborn small ruminants.
1997-1999	University of Liverpool. Lectures on ectoparasitic diseases of sheep.

VETERINARY CLINICAL AND CONSULTING EXPERIENCE

1994-96	Large-animal veterinary clinician at Endell Veterinary Group (EVG), Salisbury, UK. Responsible for developing a sheep health and production scheme for EVG´s clients and for students in practice.
2005	Member of a FAO-UN mission to investigate outbreaks of Avian Influenza in Romania.
2007	Private consultor for "IPC Marenostrum" on a fish import mission to South Africa.

AFFILIATIONS

European Veterinary Parasitology College (EVPC)

Spanish Society for Veterinary Parasitology (SEP)
Society for Veterinary Epidemiology and Preventive Medicine (SVEPM)
Asociación Española de epidemiología y Medicina Preventiva Veterinaria (AEEMPV)
Association pour l'etude de l'epidemiologie des maladies animales (AEEMA)
Sociedad Española de Ovinotecnia y Caprinotecnia (SEOC)