



## Profolio of Researchers and Research Teams

### ANIMAL HEALTH RESEARCH: GALICIA

(Last update 03/04/2013)

**Code:** GI-1702  
**Department:** Patoloxía Animal  
**Contact:**  
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Telf.: 981-547000

#### Research field

- Epidemiological studies for animal diseases control
- Fasciolosis: diagnosis and treatment
- Bovine hipodermosis and other myiasis: epidemiology, immunomodulation and control
- Gastrointestinal infections of ruminants: paratuberculosis and gastrointestinal nematodosis
- Respiratory infections of ruminants: Maedi Visna and lung nematodosis
- Parasiticfauna and infectious disease of cinegetic species
- Antigens and immunity of parasites with veterinary importance
- Valoration of anthelmintics and antimicrobial in veterinary and the apparition of resistences
- Cryptosporidiosis and coccidiosis: epidemiological and molecular studies
- Infectious and parasitic pathogens that affect the reproduction of ruminants

#### Technology services

- Techniques of parasitic diagnosis.- Study of parasitic antigens and antibodies.- Efficacy of anthelmintics and resistences.- Study of parasites of wild animals.- Epidemiological studies of animal diseases.

### Key words

Protozoa; helminths; myiasis; Parasitic diagnosis; Maedi Visna; Paratuberculosis; Q Fever; antigens; antibodies; anthelmintic and antimicrobial resistance; immunodiagnostic; cellular and humoral immunity; cytokines; epidemiology and control of infectious diseases of domestic and wild ruminants; molecular biology; zoonoses and public health.

### Researchers

<b>Name</b>	<b>Position</b>
Díez Baños,P.	Coordinator
Díaz Fernández,P.	Member
Fernández Rodríguez,G.	Member
López Sáñdez,C.M.	Member
Morrondo Pelayo,M.P.	Member
Panadero Fontán,R.	Member
Cabanelas Dopazo,E.	IFP
Díaz Cao,J.M.	IFP
Prieto Lago,A.	IFP

#### External collaborators

María Natividad Díez Baños	Universidad de León
Miguel Viña Vázquez	Veterinario AD SG ovino
José Pedreira García	Veterinario Clínico
María Soilan López	AD SG Vacasán
Juan Pablo Béjar González	BOAGA
Ana Pérez Creo	Facultade de Veterinaria de Lugo
Aída del Carmen Cordero Ramírez	Universidad Nacional Agraria de la Molina
María Belén Pombo Río	LIGAL
Francisco Javier Pato Rivero	Facultade de Veterinaria
M <sup>a</sup> LUISA BARREAL LÓPEZ	LIGAL
Noelia Lago Rodríguez	Veterinario Clínico Colaborador

### RTD PROJECTS ( period: 2009 - 2013 )

**Title:**

Consolidacion e estruturacion de unidades de investigacion competitivas. (GPC)

**Tipology:** (PG) Plan Galego

**Duration:** 17/06/2012 - 30/11/2014

**Main investigator:** Díez Baños, Pablo

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**Title:**

Caracterización de la diversidad de Cryptosporidium spp de rumiantes del noroeste peninsular y análisis de su relación con la potencialidad patógena, inmunológica y zoonótica

**Tipology:** Plan Nacional

**Duration:** 01/01/2012 - 31/12/2014

**Main investigator:** Morrondo Pelayo, María Patrocinio

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**Title:**

FORTALECIMIENTO DE LAS ACTIVIDADES DE INVESTIGACIÓN EN SANIDAD ANIMAL EN LA

UNIVERSIDAD NACIONAL AGRARIA LA MOLINA (UNALM) CON EL FIN DE MEJORAR LA PRODUCTIVIDAD GANADERA EN EL PERÚ

**Tipology:** Outros Proxectos Nacionais

**Duration:** 13/12/2011 - 12/03/2013

**Main investigator:** Díez Baños, Pablo

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**Title:**

Problemas reproductivos infecciosos e parasitarios do ovino galego: seroprevalencia; incidencia sobre a produción e propostas para o seu control.

**Tipology:** Proxectos Xunta

**Duration:** 08/08/2010 - 30/09/2012

**Main investigator:** Díez Baños, Pablo

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**Title:**

Patrones de produción de citoquinas y su efecto inmunomodulador en la hipodermosis bovina

**Tipology:** Plan Nacional

**Duration:** 01/01/2010 - 31/12/2012

**Main investigator:** Panadero Fontán, Rosario

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### Technological customers and partners

- AD SG Terras da Ulloa
- Agrocinegética Modelo
- Agrupación de Defensa Sanitaria Gandeira Acivo
- Asociación de Criadores de Gando Porcino Celta
- Asociación del Corzo Español
- Consellería do Medio Rural
- Cunigalicia, S.C.G.
- Helix Galicia, S.L.
- Laboratorios Karizoo, S.A. P.I.
- Ojen, S.L.
- SAT A Campa
- Varias entidades

### SCIENTIFIC PRODUCTION ( period: 2007 - 2011 )

#### Articles in scientific journals

**Article:**

Progress in the development of Fasciola hepatica vaccine using recombinant fatty acid binding protein with the adjuvant adaptation system ADAD.

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2007

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**Article:**

Assessment of climatic and orographic conditions on the infection by Calicophoron daubneyi and Dicrocoelium dendriticum in grazing beef cattle (NW Spain).

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2007

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**Article:**

Risk periods of infection by Calicophoron daubneyi (Digenea: Paramphistomidae) in cattle from oceanic climate areas

**Journal:** PARASITOLOGY RESEARCH, ISSN: 0932-0113

2007

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**Article:**

Evaluation of an antigen capture ELISA for the early diagnosis of *Hypoderma lineatum* in cattle under field conditions.

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2007

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**Article:**

Occurrence and larval growth of *Hypoderma lineatum* in the oesophagi in cattle from Northwest Spain: influence of geographical and climatic conditions.

**Journal:** MEDICAL AND VETERINARY ENTOMOLOGY, ISSN: 0269-283X  
2007

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**Article:**

Immunodiagnosis of current fasciolosis in sheep naturally-exposed to *Fasciola hepatica* by using a 2.9 kDa recombinant protein

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2007

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**Article:**

Impact of previous infestation on dynamics of circulating hypodermin C in cattle artificially infested with *Hypoderma lineatum* (Diptera:Oestridae)

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2008

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**Article:**

Field evaluation for anthelmintic resistant ovine gastrointestinal nematodes by in vitro and in vivo assays. (2008). *The Journal of Parasitology*, 94 (4)

**Journal:** JOURNAL OF PARASITOLOGY, ISSN: 0022-3395  
2008

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**Article:**

Local and systemic cytokine responses during larval penetration in cattle experimentally infested with *Hypoderma lineatum* (Diptera: Oestridae)

**Journal:** VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, ISSN: 0165-2427  
2009

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**Article:**

Clinical trial of efficacy of ivermectin pour-on against gastrointestinal parasitic nematodes in silvopasturing horses.

**Journal:** EQUINE VETERINARY JOURNAL, ISSN: 0425-1644  
2009

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**Article:**

Silvopastoralism and autochthonous equine livestock: Analysis of the infection by endoparasites.

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2009

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**Article:**

Immunomodulatory effect of *Hypoderma lineatum* antigens: in vitro effect on bovine lymphocyte proliferation and cytokine production.

**Journal:** PARASITE IMMUNOLOGY, ISSN: 0141-9838

2009

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**Article:**

A recombinant-based ELISA evaluating the efficacy of netobimin and albendazole treatments on ruminants with naturally acquired fascioliasis.

**Journal:** VETERINARY JOURNAL, ISSN: 1090-0233  
2009

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**Article:**

Application of the analysis of serum antibodies (IgM and IgG) to estimate the seroprevalence of ovine oestrosis and to evaluate the effect of chemotherapy.

**Journal:** JOURNAL OF MEDICAL ENTOMOLOGY, ISSN: 0022-2585  
2010

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**Article:**

An approach of the laboratory to the field: assessment of the influence of cattle-management on the seroprevalence of fascioliasis by using polyclonal-and recombinant-based ELISAs.

**Journal:** JOURNAL OF PARASITOLOGY, ISSN: 0022-3395  
2010

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**Article:**

Genotype and subtype analysis of Cryptosporidium isolates from calves and lambs in Galicia (NW Spain)

**Journal:** PARASITOLOGY, ISSN: 0031-1820  
2010

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**Article:**

Identification of cryptosporidium xiaoi in diarrhoeic goat kids (Capra hircus) in Spain

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2010

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**Article:**

First diagnosis of an imported human myiasis caused by Hypoderma sinense (Diptera: Oestridae), detected in a European traveler returning from India.

**Journal:** JOURNAL OF TRAVEL MEDICINE, ISSN: 1195-1982  
2010

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**Article:**

A novel second instar Gasterophilus excretory/secretory antigen-based ELISA for the diagnosis of gasterophilosis in grazing horses.

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2010

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**Article:**

Efficacy of anthelmintic control programs against natural Muellerius capillaris infection in sheep in the north-west of Spain. Effect on blood gases and pH in venous blood samples

**Journal:** PARASITE-JOURNAL DE LA SOCIETE FRANCAISE DE PARASITOLOGIE, ISSN: 1252-607X  
2010

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**Article:**

Use of a crude extract or purified antigen from first-instar cattle grubs, Hypoderma lineatum, for the detection of anti-Hypoderma antibodies in free-ranging cervids from southern Spain.

**Journal:** MEDICAL AND VETERINARY ENTOMOLOGY, ISSN: 0269-283X

2010

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**Article:**

Detection of *Hypoderma actaeon* infestation in *Cervus elaphus* with ELISA and western blotting.

**Journal:** JOURNAL OF WILDLIFE DISEASES, ISSN: 0090-3558  
2010

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**Article:**

Seroprevalence of *Toxoplasma gondii* and *Neospora caninum* in wild and domestic ruminants sharing pastures in Galicia (Northwest Spain)

**Journal:** RESEARCH IN VETERINARY SCIENCE, ISSN: 0034-5288  
2010

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**Article:**

Fetal gender determination by first-trimester ultrasound in dairy cows under routine herd management in Northwest Spain

**Journal:** ANIMAL REPRODUCTION SCIENCE, ISSN: 0378-4320  
2011

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**Article:**

Response of proinflammatory and anti-inflammatory cytokines in calves with subclinical bovine viral diarrhoea challenged with bovine herpesvirus-1

**Journal:** VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, ISSN: 0165-2427  
2011

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**Article:**

Protostrongylid infection in meat sheep from Northwestern Spain: prevalence and risk factors

**Journal:** VETERINARY PARASITOLOGY, ISSN: 0304-4017  
2011

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**Article:**

Immunohistochemical characterization of inflammatory cells in the skin of cattle undergoing repeated infestations with *Hypoderma lineatum* (Diptera: Oestridae) larvae

**Journal:** JOURNAL OF COMPARATIVE PATHOLOGY, ISSN: 0021-9975  
2011

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**Article:**

Tick infestation (Acari: Ixodidae) in roe deer (*Capreolus capreolus*) from northwestern Spain: population dynamics and risk stratification

**Journal:** EXPERIMENTAL AND APPLIED ACAROLOGY, ISSN: 0168-8162  
2011

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**Article:**

Sarcoptes world molecular network (Sarcoptes-WMN)

**Journal:** INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES, ISSN: 1201-9712  
2011

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**Article:**

Prevalence of mixed trematode infections in an abattoir receiving cattle from northern Portugal and NW Spain

**Journal:** VETERINARY RECORD, ISSN: 0042-4900  
2011

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**Article:**

Efficacy of ivermectin pour-on against nematodes infecting foals on pasture: coprological and biochemical analysis

**Journal:** JOURNAL OF EQUINE VETERINARY SCIENCE, ISSN: 0737-0806  
2011

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**Book:**

**Title:**

Guía terapéutica en mamitis bovina  
(978-84-614-6680-1) Publicación: 2011

**Editorial:**Laboratorio Interprofesional Gallego de Análisis d

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**Chapter:**

**Title:**

Lembranzas da orixe e actividades do primeiro departamento universitario creado no campus de Lugo: o Departamento de Patoloxía e Producción Animal creado o 27 de xullo de 1988-

**Book:**

25 anos da Facultade de Veterinaria. Campus dse Lugo (1984-2009)

(978-84-9887-269-9)Publicación: 2009

**Editorial:**SERVIZO DE PUBLICACIÓNS E INTERCAMBIO CIENTÍFICO

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**Title:**

A Academia de Ciencias Veterinarias de Galicia

**Book:**

25 anos da Facultade de Veterinaria. Campus dse Lugo (1984-2009)

(978-84-9887-269-9)Publicación: 2009

**Editorial:**SERVIZO DE PUBLICACIÓNS E INTERCAMBIO CIENTÍFICO

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**Title:**

Desarrollo de resistencias a los antihelmínticos en nematodos gastrointestinales de rumiantes y su situación en Galicia.

**Book:**

Anales de la Academia de Ciencias Veterinarias de Galicia

(1889-3473)Publicación: 2009

**Editorial:**Academia de Ciencias Veterinarias de Galicia

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**Title:**

Cross-immunity and interpretation of the diagnosis of parasitic trematodosis in ruminants by means of immunoenzymatic probes.

**Book:**

Veterinary Parasitology

(978-1-60741-631-9)Publicación: 2010

**Editorial:**Nova Science Publishers

---

**Title:**

Gestión de subproductos animales no destinados al consumo humano (SANDACH)

**Book:**

Gestión de residuos orgánicos de uso agrícola

(978-84-9887-822-6)Publicación: 2011

**Editorial:**Servicio de publicacións e intercambio científico.

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**Title:**

Gestión de residuos sanitarios en explotaciones ganaderas

**Book:**

Gestión de residuos orgánicos de uso agrícola

(978-84-9887-822-6)Publicación: 2011

**Editorial:**Servicio de publicacións e intercambio científico.

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**Doctoral theses:**

**Title:**

Obtención de proteínas recombinantes útiles para el diagnóstico de fasciolosis ovina

**Date of dissertation:** 12/02/2007

**Director:** María Patrocinio Morrondo Pelayo, Pablo Díez Baños, Adolfo Paz Silva

**Author:** M<sup>a</sup> Sol Arias Vázquez

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**Title:**

Estudio del factor reumatoide relacionado con agentes infecto-parasitarios

**Date of dissertation:** 02/10/2008

**Director:** Pablo Díez Baños, Adolfo Paz Silva, Rita Sánchez-Andrade Fernández

**Author:** Amalia Sánchez-Andrade Fernández

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**Title:**

Resposta celular cutánea e produción de citoquinas como factores determinantes de protección na infestación por *Hypoderma* sp.

**Date of dissertation:** 01/12/2009

**Director:** Pablo Díez Baños, Rosario Panadero Fontán, Ceferino Manuel López Sáñez

**Author:** Vicente Dacal Rivas

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**Title:**

Estudio sobre técnicas inmunoenzimáticas para el diagnóstico serológico de la oestrosis en pequeños rumiantes y análisis de su utilidad en encuestas seroepidemiológicas

**Date of dissertation:** 21/01/2010

**Director:** Rita Sánchez-Andrade Fernández, Adolfo Paz Silva, María Patrocinio Morrondo Pelayo

**Author:** Jose Antonio Romero Delgado

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**Title:**

Estudo mediante citometría de fluxo e enzimoimmunoensaio da resposta inmune en gando vacún infestado por *Hypoderma* (Diptera: Oestridae)

**Date of dissertation:** 24/11/2010

**Director:** Pablo Díez Baños, María Patrocinio Morrondo Pelayo, Rosario Panadero Fontán, Ceferino Manuel López

**Author:** Luis Vázquez Sande

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**Title:**

EPIDEMIOLOXÍA E CONTROL DOS PRINCIPAIS PARASITISMOS DO CABALO EN GALICIA



**Date of dissertation:** 09/07/2010

**Director:** Adolfo Paz Silva, Arias Vázquez, María Sol, Suárez García de Paredes, José Luis

**Author:** Iván Francisco Vázquez

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**Title:**

Contribución o estudo epidemiolóxico da brucelose bovina na Comunidade Autónoma de Galicia:  
Investigación e aplicabilidade de novas técnicas diagnósticas

**Date of dissertation:** 29/04/2011

**Director:** María Luisa Sanjuán Hernán-Pérez, Eduardo Alfonso Yus Respaldiza, Gonzalo Fernández Rodríguez

**Author:** David Fernández García

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**Title:**

Análise de parámetros de calidade de leite de gando vacuno a partir de datos de control leiteiro  
oficial

**Date of dissertation:** 20/06/2011

**Director:** Eduardo Alfonso Yus Respaldiza, Francisco Javier Diéguez Casalta, Gonzalo Fernández Rodríguez

**Author:** Ramiro Antonio Fouz Dopacio

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**Title:**

Estudio epidemiolóxico das infeccións que afectan o aparello respiratorio e gastrointestinal dos  
corzos en Galicia

**Date of dissertation:** 22/12/2011

**Director:** Gonzalo Fernández Rodríguez, María Patrocinio Morrondo Pelayo, Rosario Panadero Fontán, Pablo Díaz

**Author:** Francisco Javier Pato Rivero

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