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Bibliografía científica del **SERIDA** (Servicio Regional de Investigación y Desarrollo Agroalimentario) en **RIA**, Repositorio Institucional de Asturias

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INTRODUCCIÓN

La **bibliografía científica** del SERIDA, organismo público del Principado de Asturias, que asume las competencias en el impulso y ejecución de la investigación y el desarrollo tecnológico y agroalimentario, es un repertorio de información exclusivamente bibliográfica con carácter científico, especializado, colectivo, regional, y retrospectivo que pretende dar a conocer el seguimiento de la producción científica de los investigadores del SERIDA.

La motivación principal de hacer esta bibliografía fue la de llevar a cabo un registro unificado de todas las publicaciones que asegura y preserva cada uno de los documentos que componen la producción científica del SERIDA y permitir su consulta centralizada que por su naturaleza o por el tipo de publicación estaría dispersa en numerosas revistas y bases de datos.

Tiene carácter científico porque el tipo de los documentos se compone principalmente de artículos publicados en revistas científicas e indizadas por ISI (Institute for Scientific Information), actualmente en la plataforma WOS (Web of Science Core Collection) y propiedad de Thomson Reuters. En las bases de datos Thomson-ISI (SCI) se incluye la bibliografía científica de mayor difusión e impacto internacional.

Publicar en estas revistas se ha convertido en un signo intrínseco de calidad que se valora de forma positiva por los más diversos sistemas de evaluación. Los investigadores saben que sus trabajos no sólo son más visibles sino que son altamente valorados y reconocidos por el sistema científico español.

Actualmente, la comunicación científica se está enriqueciendo por la utilización de nuevos modos de almacenamiento, publicación y difusión de los resultados. En este sentido, se ha confeccionado la bibliografía en una plataforma web utilizando el recurso del gestor bibliográfico “Endnote” en línea, y para proporcionar accesibilidad a todas las publicaciones del personal investigador, se ha aprovechado una herramienta local e interna, el *Repositorio Institucional de Asturias*, **RIA** (creado por Resolución de 2 de febrero de 2009, de la Consejería de Administraciones Públicas y Portavoz del Gobierno)

Se ha utilizado este repositorio con doble propósito. Por un lado, siendo la ciencia un sistema de comunicación y uno de los fines esenciales de ésta es

la publicación de resultados, el repositorio RIA , fortalece y optimiza dicho sistema. Por otro, al ser un repertorio bibliográfico que recoge la producción de un servicio de investigación regional hacemos nuestros los propios objetivos de RIA:

- “Incrementar la visibilidad, difusión e impacto de la literatura científica, garantizando su preservación, organización y libre acceso.”
- “Promover el retorno de la inversión efectuada por la Comunidad Autónoma del Principado de Asturias en estudios y publicaciones, facilitando la reutilización de la información y el conocimiento generados por el sector público.”
- “Aumentar el impacto de la producción científica disponible en red”

Es bibliografía **especializada** que proporciona la identificación de todos los artículos, mediante la aportación comprobada de los datos referenciales que los individualizan, en un periodo de tiempo dado y publicados sobre las materias objeto de estudio e investigación de las Áreas del SERIDA: Tecnología de los Alimentos, Cultivos Hortofrutícolas y Forestales, Genética y Reproducción Animal, Sanidad Animal, Nutrición, Pastos y Forrajes, Sistemas de Producción Animal, Experimentación y Demostración Agroganadera, Experimentación y Demostración Agroforestal, Selección y Reproducción Animal. Esta bibliografía en definitiva refleja los resultados parciales o finales obtenidos en las diferentes áreas de investigación.

Se trata de una bibliografía **colectiva** ya que reúne a diversos autores con el denominador común de ser investigadores del SERIDA independientemente de que algunos autores o colaboradores hayan dejado de formar parte del centro. Es un repertorio **secundario** porque recoge los artículos publicados en revistas siendo éstos el soporte primario de la información científica. Se trata de un conjunto de 510 artículos, ordenados en un sistema cronológico y alfabético de autores por año. Se utilizó el estilo Harvard de bibliografía porque era el que mejor se adaptaba al sistema organizativo facilitando la consulta de los artículos de manera clara, rápida y sencilla. Este estilo asocia el nombre del autor al año de publicación y si tuviera más de un artículo en el mismo año, los diferencia añadiendo una letra al año (a, b, c, d, etc) por orden de publicación o, si no se conoce por orden alfabético de títulos.

Es una bibliografía **retrospectiva** porque abarca un periodo delimitado desde 1988 a 2015. Se ha separado un bloque que se publica entre 1988 al año 2000, a partir del año 2001 se recopila la producción publicada anualmente, ya que desde esta fecha aumentan las referencias por año.

En el primer bloque se agrupan todas las publicaciones científicas (un total de 72) que se hicieron mientras el Organismo actual era **CEA, Centro de Experimentación Agraria** (1985-1991), **IEPA, Instituto de Experimentación y Promoción Agraria** (1991-1995), paralelamente otro centro de investigación del que se recogen referencias era **CENSYRA, Centro Nacional de Selección Animal** (1972-1991) y **CIATA Centro de Investigación Aplicada y Tecnología Agroalimentaria** (1995-1999). A partir de la Ley 5/1999, se crea el **SERIDA**.

Sabemos que no existe un repertorio bibliográfico íntegro y que éste requiere una continuidad en la dedicación al mantenimiento por lo que se completará con actualizaciones de años sucesivos conforme se conozcan los nuevos datos bibliográficos.

Conociendo las ventajas que ofrece la reunión de la www y los instrumentos bibliográficos retrospectivos, la investigación realizada en este repertorio puede calificarse puramente bibliográfica ya que presenta las fuentes de acceso a la información bibliográfica de los documentos independientemente de la localización real de los documentos descritos.

Estamos utilizando RIA como herramienta final de difusión pero dentro del mismo repositorio, se está creando una colección (Agroalimentación y Ganadería) con un valor temático añadido. Hay que apuntar que muchos artículos referenciados en este repertorio se encuentran ya depositados en RIA, en libre acceso, una vez superadas las restricciones que conllevan las distintas políticas de autoarchivo de las editoriales. RIA se ha implementado sobre el programa de software libre "Dspace" cuyas características técnicas cumplen con el estándar Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) y describe los registros con metadatos Dublin Core. De este modo, se facilita la búsqueda y recuperación de sus contenidos

Con la aplicación y uso del repositorio como medio y como soporte de la información bibliográfica, se consigue uno de los objetivos principales de la difusión de resultados: visibilidad en internet que no tiene que traducirse en un mayor impacto científico pero sí en un aumento directo de forma rápida, y cómoda en la utilización de los materiales. Y esto se comprueba

con los indicadores de utilización del sistema controlando el número de visitas y reproducciones o reutilizaciones, número de descargas, lecturas del resumen... etc.

Somos conscientes que el repositorio RIA al ser institucional (Principado de Asturias) supone y garantiza un compromiso organizativo para la administración de todos los materiales digitales incluyendo la preservación a largo plazo así como su gestión y acceso o distribución y en definitiva, un servicio de apoyo a la investigación regional y al resto de servicios científicos nacionales.

AÑOS 1988-2000

- ARA, M., HERNANDEZ, M., RUBIO, J., BERRIOS, J., SFAKIOTAKIS, E. & PORLINGIS, J. **1997**. A field study on planting densities in kiwifruit culture. *Third International Symposium on Kiwifruit, Vols 1 and 2*, 175-179.
- BLANCO, D., MORAN, M., GUTIERREZ, M. & MANGAS, J. **1991**. Determination of organic-acids in apple and cider by liquid-chromatography with ordinary and narrow-bore columns - a comparative-study. *Journal of Liquid Chromatography*, 14, 2707-2719.
- BLANCO, D., MORAN, M., GUTIERREZ, M., MORENO, J., DAPENA, E. & MANGAS, J. **1992**. Biochemical-study of the ripening of cider apple varieties. *Zeitschrift Fur Lebensmittel-Untersuchung Und-Forschung*, 194, 33-37.
- BLANCO, D., QUINTANILLA, M., MANGAS, J. & GUTIERREZ, M. **1996**. Determination of organic acids in apple juice by capillary liquid chromatography. *Journal of Liquid Chromatography & Related Technologies*, 19, 2615-2621.
- BLANCO-GOMIS, D., FERNANDEZ-RUBIO, P., GUTIERREZ-ALVAREZ, M. & MANGAS-ALONSO, J. **1998a**. Use of high-performance liquid chromatographic chemometric techniques to differentiate apple juices clarified by microfiltration and ultrafiltration. *Analyst*, 123, 125-129.
- BLANCO-GOMIS, D., HERRERO-SANCHEZ, I. & ALONSO, J. **1998b**. Characterisation of apple cider cultivars by chemometric techniques using data from high-performance liquid chromatography and flow-injection analysis. *Analyst*, 123, 1187-1191.
- CABRANES, C., MANGAS, J. & BLANCO, D. **1996**. Controlled production of cider by induction of alcoholic fermentation and malolactic conversion. *Journal of the Institute of Brewing*, 102, 103-109.
- CABRANES, C., MANGAS, J. J., & BLANCO, D. **1997**. Selection and biochemical characterisation of *Saccharomyces cerevisiae* and *Kloeckera apiculata* strains isolated from Spanish cider. *Journal of the Institute of Brewing*, 103(3), 165-169.
- CABRANES, C., MORENO, J. & MANGAS, J. **1998**. Cider production with immobilized *Leuconostoc oenos*. *Journal of the Institute of Brewing*, 104, 127-130.
- CABRANES, C., MORENO, J. & MANGAS, J. J. **1990**. Dynamics of yeast populations during cider fermentation in the asturian region of Spain. *Applied and Environmental Microbiology*, 56.
- CABRANES, C., MORENO, J., & MANGAS, J. **1998**. Cider production with immobilized *Leuconostoc oenos*. *Journal of the Institute of Brewing*, 104(3), 127-130.
- CAJARVILLE, C., GONZALEZ, J., REPETTO, J., RODRIGUEZ, C. & MARTINEZ, A. **1999**. Nutritive value of green forage and crop by-products of *Cynara cardunculus*. *Annales De Zootechnie*, 48, 353-365.

CANON, J., GUTIERREZ, J. P., DUNNER, S., GOYACHE, F. & VALLEJO, M. **1994**. Herdbook analyses of the asturiana beef-cattle breeds. *Genetics Selection Evolution*, 26, 65-75.

DE BULNES, A. G., OSORO, K., & SEBASTIAN, A. L. **1999**. Ultrasonographic assessment of the ovarian response in eCG-treated goats. *Small Ruminant Research*, 34(1), 65-69.

DE LA ROZA, B., MARTINEZ, A., SANTOS, B., GONZALEZ, J., GOMEZ, G. & DAVIES, A. **1998**. The estimation of crude protein and dry matter degradability of maize and grass silages by near infrared spectroscopy. *Journal of Near Infrared Spectroscopy*, Vol 6 1998, 145-151.

DEL POZO, M. & OSORO, K. **1997**. Effect of sward height and vertical distribution of clover on performance of cashmere goats in autumn. *Grass and Forage Science*, 52, 269-277.

DEL POZO, M., OSORO, K. & CELAYA, R. **1998**. Effects of complementary grazing by goats on sward composition and on sheep performance managed during lactation in perennial ryegrass and white clover pastures. *Small Ruminant Research*, 29, 173-184.

ESPI, A., PRIETO, J. M., FERNANDEZ, M., & ALVAREZ, M. **2000**. Serological prevalence to six leptospiral serovars in cattle in Asturias (Northern Spain). *Epidemiology and Infection*, 124(3), 599-602.

FERNANDEZ, G., BARO, J. A., DELAFUENTE, L. F., & SANPRIMITIVO, F. **1997**. Genetic parameters for linear udder traits of dairy ewes. *Journal of Dairy Science*, 80(3), 601-605.

FERNANDEZ, L., ABAD, M., PEREZ, V., CORPA, J. M., CARBAJO, M. T., & DIEZ, C. **2000**. Effects of an opioid antagonist (naloxone) on reproductive function of multiparous sows. *Veterinary Record*, 147(7), 194-196.

FERREIRA, J., ALVAREZ, E., FUEYO, M., ROCA, A. & GIRALDEZ, R. **2000**. Determination of the outcrossing rate of *Phaseolus vulgaris* L. using seed protein markers. *Euphytica*, 113, 259-263.

FUERTES, C., HERNANDEZ, D., ARA, C., RUBIO, G. & SUGAR, D. **1994**. Behaviour of late pear-tree varieties in northern Spain. *Sixth International Symposium on Pear Growing*, 224-231.

GOMEZ, E. & DIEZ, C. **1998**. Bovine embryos can use ketone bodies as energy substrates at different developmental stages in vitro. *Theriogenology*, 49, 232-232.

GOMEZ, E. & DIEZ, C. **2000**. Effects of glucose and protein sources on bovine embryo development in vitro. *Animal Reproduction Science*, 58, 23-37.

GOMEZ, E. **1997**. Acetoacetate and beta-D-hydroxybutyrate as energy substrates during early bovine embryo development in vitro. *Theriogenology*, 48(1).

- GOMEZ, E., & URIA, H. **1997**. Morphological and functional characterization of bovine oviductal epithelial cell monolayers cultured on polarizing membranes. *Reproduction Nutrition Development*, 37(2), 151-162.
- GOMIS, D. B., LOBO, A. M. P., ALONSO, J. M. & ALVAREZ, M. D. G. **1992**. Determination of amino-acids in ripening apples by high-performance liquid-chromatography. *Zeitschrift Fur Lebensmittel-Untersuchung Und-Forschung*, 194.
- GOMIS, D., ALVAREZ, M., ALONSO, J. & VALLINA, A. **1988a**. Determination of sugars and alcohols in apple juice and cider by high-performance liquid-chromatography. *Chromatographia*, 25, 701-706.
- GOMIS, D., ALVAREZ, M., NAREDO, L. & ALONSO, J. **1991a**. High-performance liquid-chromatographic determination of furfural and hydroxymethylfurfural in apple juices and concentrates. *Chromatographia*, 32, 45-48.
- GOMIS, D., GUTIERREZ, M., ALVAREZ, M. & ALONSO, J. **1988b**. Application of hplc to characterization and control of individual acids in apple extracts and ciders. *Chromatographia*, 25, 1054-1058.
- GOMIS, D., GUTIERREZ, M., MORAN, M., MORENO, J., DAPENA, E., CABRANES, C. & ALONSO, J. **1991b**. Analytical control of cider production by 2 technological methods. *Journal of the Institute of Brewing*, 97, 453-456.
- GOMIS, D., LOBO, A., ALVAREZ, M. & ALONSO, J. **1990**. Determination of amino-acids in apple extracts by high-performance liquid-chromatography. *Chromatographia*, 29, 155-160.
- GONZALEZ, A., LANDERAS, E. & MENDOZA, M. **2000**. Pathovars of *Pseudomonas syringae* causing bacterial brown spot and halo blight in *Phaseolus vulgaris* L-are distinguishable by ribotyping. *Applied and Environmental Microbiology*, 66, 850-854.
- GONZALEZ, M., COQUE, M. & HERRERO, M. **1994**. Pollinator selection in kiwifruit (*actinidia-deliciosa*). *Journal of Horticultural Science*, 69, 697-702.
- GONZALEZ, M., COQUE, M. & HERRERO, M. **1995a**. Papillar integrity as an indicator of stigmatic receptivity in kiwifruit (*actinidia-deliciosa*). *Journal of Experimental Botany*, 46, 263-269.
- GONZALEZ, M., COQUE, M. & HERRERO, M. **1995b**. Stigmatic receptivity limits the effective pollination period in kiwifruit. *Journal of the American Society For Horticultural Science*, 120, 199-202.
- GONZALEZ, M., COQUE, M. & HERRERO, M. **1996**. Pollen-pistil interaction in kiwifruit (*Actinidia deliciosa*; Actinidiaceae). *American Journal of Botany*, 83, 148-154.
- GONZALEZ, M., COQUE, M., HERRERO, M., SFAKIOTAKIS, E. & PORLINGIS, J. **1997**. Kiwifruit flower biology and its implications on fruit set. *Third International Symposium on Kiwifruit, Vols 1 and 2*, 425-429.

- GUTIERREZ, J., CANON, J. & GOYACHE, F. **1997**. Estimation of direct and maternal genetic parameters for preweaning traits in the Asturiana de los Valles beef cattle breed through animal and sire models. *Journal of Animal Breeding and Genetics-Zeitschrift Fur Tierzucht Und Zuchtungsbiologie*, 114, 261-266.
- HERNANDEZ, M., ARA, M., BERRIOS, J., RUBIO, J., SFAKIOTAKIS, E. & PORLINGIS, J. **1997**. Performance of kiwifruit plant material propagated by different methods. *Third International Symposium on Kiwifruit, Vols 1 and 2*, 155-160.
- MANGAS, J. J., RODRIGUEZ, R., MORENO, J., SUAREZ, B., & BLANCO, D. **1997**. Furanic and phenolic composition of cider brandy. A chemometric study. *Journal of Agricultural and Food Chemistry*, 45(10).
- MANGAS, J. J., SUAREZ, B., PICINELLI, A., MORENO, J., & BLANCO, D. **1997**. Differentiation by phenolic profile of apple juices prepared according to two membrane techniques. *Journal of Agricultural and Food Chemistry*, 45(12).
- MANGAS, J., CABRANES, C., MORENO, J. & GOMIS, D. **1994**. Influence of cider-making technology on cider taste. *Food Science and Technology-Lebensmittel-Wissenschaft & Technologie*, 27, 583-586.
- MANGAS, J., DAPENA, E., RODRIGUEZ, M., MORENO, J., GUTIERREZ, M. & BLANCO, D. **1992**. Changes in pectic fractions during ripening of cider apples. *Hortscience*, 27, 328-330.
- MANGAS, J., GONZALEZ, M. & BLANCO, D. **1993a**. Influence of cider-making technology on low-boiling-point volatile compounds. *Zeitschrift Fur Lebensmittel-Untersuchung Und-Forschung*, 197, 522-524.
- MANGAS, J., GONZALEZ, M., RODRIGUEZ, R. & BLANCO, D. **1996a**. Solid-phase extraction and determination of trace aroma and flavour components in cider by GC-MS. *Chromatographia*, 42, 101-105.
- MANGAS, J., MORENO, J., PICINELLI, A. & BLANCO, D. **1998a**. Characterization of cider apple fruits according to their degree of ripening. A chemometric approach. *Journal of Agricultural and Food Chemistry*, 46, 4174-4178.
- MANGAS, J., MORENO, J., RODRIGUEZ, R., PICINELLI, A. & SUAREZ, B. **1999a**. Analysis of polysaccharides in cider: Their effect on sensory foaming properties. *Journal of Agricultural and Food Chemistry*, 47, 152-156.
- MANGAS, J., MORENO, J., SUAREZ, B., PICINELLI, A. & BLANCO, D. **1998b**. Liquid chromatographic analysis of non-volatile strawberry compounds. *Chromatographia*, 47, 197-202.
- MANGAS, J., RODRIGUEZ, R., MORENO, J. & BLANCO, D. **1996b**. Changes in the major volatile compounds of cider distillates during maturation. *Food Science and Technology-Lebensmittel-Wissenschaft & Technologie*, 29, 357-364.

MANGAS, J., RODRIGUEZ, R., MORENO, J. & BLANCO, D. **1996c**. Volatiles in distillates of cider aged in American oak wood. *Journal of Agricultural and Food Chemistry*, 44, 268-273.

MANGAS, J., RODRIGUEZ, R., MORENO, J., SUAREZ, B. & BLANCO, D. **1996d**. Evolution of aromatic and furanic congeners in the maturation of cider brandy: A contribution to its characterization. *Journal of Agricultural and Food Chemistry*, 44, 3303-3307.

MANGAS, J., RODRIGUEZ, R., SUAREZ, B., PICINELLI, A. & DAPENA, E. **1999b**. Study of the phenolic profile of cider apple cultivars at maturity by multivariate techniques. *Journal of Agricultural and Food Chemistry*, 47, 4046-4052.

MANGAS, J., SUAREZ, B., PICINELLI, A., BLANCO, D., DELAGE, E., DRILLEAU, J., BROUILLARD, R., JAY, M. & SCALBERT, A. **1995**. Extraction and HPLC determination of phenolic compounds of low molecular weight in cider solid-phase apple juice. *Polyphenols* 94, 69, 473-474.

MANGAS, J., SUAREZ, B. & BLANCO, D. **1993b**. Automated-determination of total polyphenols in apple juice. *Zeitschrift Fur Lebensmittel-Untersuchung Und-Forschung*, 197, 424-426.

OLIVAN, M. & OSORO, K. **1999**. Effect of temperature on alkane extraction from faeces and herbage. *Journal of Agricultural Science*, 132, 305-312.

OSORO, K., MARTINEZ, A., LAKER, J. & RUSSELL, A. **1995**. Grazing behaviour and performance of goats and sheep on natural and improved vegetation. *Nutrition and Grazing Ecology of Speciality Fibre Producing Animals*, 109-125.

OSORO, K., OLIVAN, M., CELAYA, R. & MARTINEZ, A. **1999**. Effects of genotype on the performance and intake characteristics of sheep grazing contrasting hill vegetation communities. *Animal Science*, 69, 419-426.

OSORO, K., OLIVAN, M., CELAYA, R. & MARTINEZ, A. **2000**. The effect of *Calluna vulgaris* cover on the performance and intake of ewes grazing hill pastures in northern Spain. *Grass and Forage Science*, 55, 300-308.

PEREZ, V., ESPI, A., CORPA, J. M., ARIAS, M., PRIETO, M., ALVAREZ, V. M., et al. **1999**. Multiple cutaneous mast cell tumour in a calf. *Veterinary Record*, 145(3), 81-82.

PEREZBARBERIA, F. J., OLIVAN, M., OSORO, K. & NORES, C. **1997**. Sex, seasonal and spatial differences in the diet of Cantabrian chamois *Rupicapra pyrenaica parva*. *Acta Theriologica*, 42.

PICINELLI, A., DAPENA, E. & MANGAS, J. **1995a**. Polyphenolic pattern in apple tree leaves in relation to scab resistance - a preliminary-study. *Journal of Agricultural and Food Chemistry*, 43, 2273-2278.

PICINELLI, A., SUAREZ, B. & MANGAS, J. **1997**. Analysis of polyphenols in apple products. *Zeitschrift Fur Lebensmittel-Untersuchung Und-Forschung a-Food Research and Technology*, 204, 48-51.

PICINELLI, A., SUAREZ, B., GARCIA, L. & MANGAS, J. **2000a**. Changes in phenolic contents during sparkling apple winemaking. *American Journal of Enology and Viticulture*, 51, 144-149.

PICINELLI, A., SUAREZ, B., MORENO, J., DAPENA, E., MANGAS, J., BROUILLARD, R., JAY, M. & SCALBERT, A. **1995b**. HPLC analysis of polyphenols in apple tree leaves. *Polyphenols* 94, 69, 315-316.

PICINELLI, A., SUAREZ, B., MORENO, J., RODRIGUEZ, R., CASO-GARCIA, L. & MANGAS, J. **2000b**. Chemical characterization of Asturian cider. *Journal of Agricultural and Food Chemistry*, 48, 3997-4002.

PRIETO, J. M., FERNANDEZ, E., ALVAREZ, V., ESPI, A., MARIN, J. F. G., ALVAREZ, M., et al. **2000**. Immunohistochemical localisation of rabbit haemorrhagic disease virus VP-60 antigen in early infection of young and adult rabbits. *Research in Veterinary Science*, 68(2), 181-187.

PRIETO, M., ESPI, A., PALOMA, J. A. G. & PARRA, F. **1990**. Effect of ivermectin treatment on anti-hypodermin-c titers of asturiana cattle naturally infected with hypoderma-lineatum. *Veterinary Parasitology*, 35.

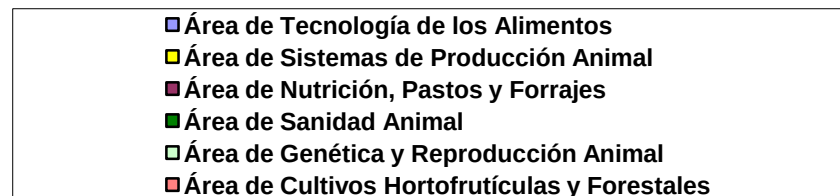
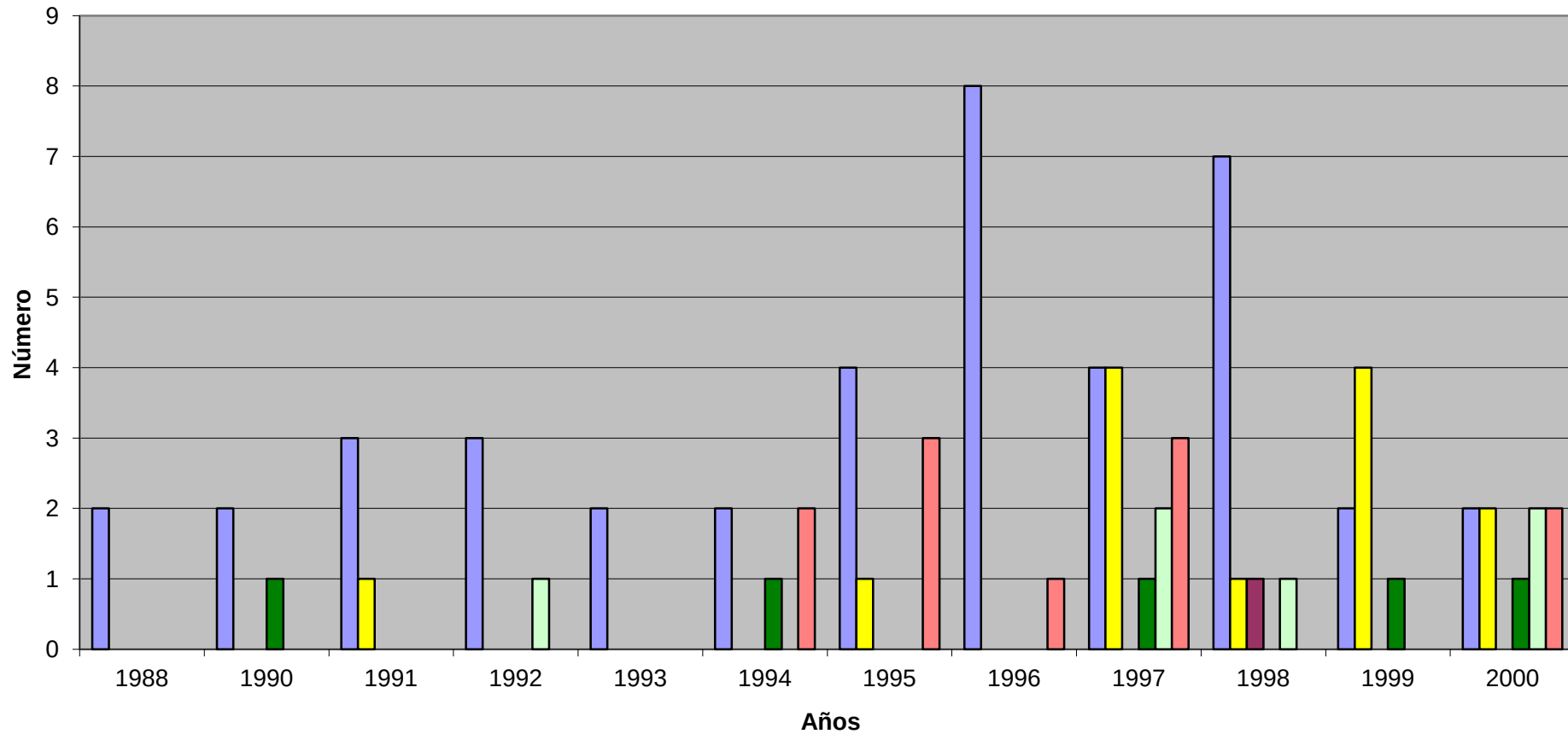
REQUEJO-FERNANDEZ, J., MARTINEZ, A., MEANA, A., ROJO-VAZQUEZ, F., OSORO, K. & ORTEGA-MORA, L. **1997**. Anthelmintic resistance in nematode parasites from goats in Spain. *Veterinary Parasitology*, 73, 83-88.

SUAREZ, B., PICINELLI, A. & MANGAS, J. **1996**. Solid-phase extraction and high-performance liquid chromatographic determination of polyphenols in apple musts and ciders. *Journal of Chromatography a*, 727, 203-209.

SUAREZ, B., PICINELLI, A., MORENO, J. & MANGAS, J. **1998**. Changes in phenolic composition of apple juices by HPLC with direct injection. *Journal of the Science of Food and Agriculture*, 78, 461-465.

VALLES, B., VICTORERO, J., ALONSO, J. & GOMIS, D. **1994**. High-performance liquid-chromatography of the neutral phenolic-compounds of low-molecular-weight in apple juice. *Journal of Agricultural and Food Chemistry*, 42, 2732-2736.

Publicaciones en revistas científicas años 1988-2000



AÑO 2001

BLANCO-GOMIS, D., ALONSO, J., CABRALES, I. & ABRODO, P. 2001. Gas chromatographic analysis of total fatty acids in cider. *Journal of Agricultural and Food Chemistry*, 49, 1260-1263.

DIEZ, C., HEYMAN, Y., LE BOURHIS, D., GUYADER-JOLY, C., DEGROUARD, J. & RENARD, J. 2001. Delipidating in vitro-produced bovine zygotes: Effect on further development and consequences for freezability. *Theriogenology*, 55, 923-936.

GIL, M., SERRA, X., GISPERT, M., OLIVER, M., SANUDO, C., PANEA, B., OLLETA, J., CAMPO, M., OLIVAN, M., OSORO, K., GARCIA-CACHAN, M., CRUZ-SAGREDO, R., IZQUIERDO, M., ESPEJO, M., MARTIN, M. & PIEDRAFITA, J. 2001. The effect of breed-production systems on the myosin heavy chain 1, the biochemical characteristics and the colour variables of Longissimus thoracis from seven Spanish beef cattle breeds. *Meat Science*, 58, 181-188.

GOMEZ, E., DUQUE, P., DIAZ, E. & DIEZ, C. 2001. Effects of acetoacetate on in vitro development of bovine embryos in medium containing citrate and myo-inositol. *Reproduction in Domestic Animals*, 36, 189-194.

GOMIS, D., PALOMINO, N. & ALONSO, J. 2001. Capillary liquid chromatographic determination of neutral phenolic compounds in apple juices. *Analytica Chimica Acta*, 426, 111-117.

GONZALEZ, A. & AVILA, M. 2001. Disease of Floral Buds of Kiwifruit in Spain Caused by *Pseudomonas syringae*. *Plant Disease*, 85, 1287

GOYACHE, F., BAHAMONDE, A., ALONSO, J., LOPEZ, S., DEL COZ, J., QUEVEDO, J., RANILLA, J., LUACES, O., ALVAREZ, I., ROYO, L. & DIEZ, J. 2001a. The usefulness of artificial intelligence techniques to assess subjective quality of products in the food industry. *Trends in Food Science & Technology*, 12, 370-381.

GOYACHE, F., DEL COZ, J., QUEVEDO, J., LOPEZ, S., ALONSO, J., RANILLA, J., LUACES, O., ALVAREZ, I. & BAHAMONDE, A. 2001b. Using artificial intelligence to design and implement a morphological assessment system in beef cattle. *Animal Science*, 73, 49-60.

GOYACHE, F. & GUTIERREZ, J. 2001. Heritability of reproductive traits in Asturiana de los Valles beef cattle breed. *Archiv Fur Tierzucht-Archives of Animal Breeding*, 44, 489-496.

OLIVAN, M., MARTINEZ, A., GARCIA, P., NOVAL, G. & OSORO, K. 2001. Estimation of the carcass composition of yearling bulls of "Asturiana de los Valles" breed from the dissection of a rib joint. *Meat Science*, 57, 185-190.

PEREIRA-LORENZO, S., RAMOS-CABRER, A., DIAZ-HERNANDEZ, B., ASCASIBAR-ERRASTI, J., SAU, F. & CIORDIA-ARA, M. 2001. Spanish chestnut cultivars. *Hortscience*, 36, 344-347.

AÑO 2002

BLANCO-GOMIS, D., ALONSO, J., CABRALES, I. & ABRODO, P. 2002. Characterization of cider apples on the basis of their fatty acid profiles. *Journal of Agricultural and Food Chemistry*, 50, 1097-1100.

CIORDIA, M., DIAZ, M., GARCIA, J. & HEPP, R. 2002. Blueberry culture both in pots and under Italian-type tunnels. *Proceedings of the Seventh International Symposium on Vaccinium Culture*, 123-127.

DEL CERRO, A., MARQUEZ, I. & GUIJARRO, J. 2002. Simultaneous detection of *Aeromonas salmonicida*, *Flavobacterium psychrophilum*, and *Yersinia ruckeri*, three major fish pathogens, by multiplex PCR. *Applied and Environmental Microbiology*, 68, 5177-5180.

DIEZ, J., DEL COZ, J., LUACES, O., GOYACHE, F., ALONSO, J., PENA, A., BAHAMONDE, A., GARIJO, F., RIQUELME, J. & TORO, M. 2002. Learning to assess from pair-wise comparisons. *Advances in Artificial Intelligence - Iberamia 2002, Proceedings*, 2527, 481-490.

DUQUE, P., DIEZ, C., ROYO, L., LORENZO, P., CARNEIRO, G., HIDALGO, C., FACAL, N. & GOMEZ, E. 2002. Enhancement of developmental capacity of meiotically inhibited bovine oocytes by retinoic acid. *Human Reproduction*, 17, 2706-2714.

FAL, M., MAJADA, J. & TAMES, R. 2002. Physical environment in non-ventilated culture vessels affects in vitro growth and morphogenesis of several cultivars of *Dianthus caryophyllus* L. *In Vitro Cellular & Developmental Biology-Plant*, 38, 589-594.

FERNANDEZ, L., SECADES, P., LOPEZ, J., MARQUEZ, I. & GUIJARRO, J. 2002. Isolation and analysis of a protease gene with an ABC transport system in the fish pathogen *Yersinia ruckeri*: insertional mutagenesis and involvement in virulence. *Microbiology-Sgm*, 148, 2233-2243.

GOMEZ, E., DUQUE, P., DIAZ, E., FACAL, N., ANTOLIN, I., HIDALGO, C. & DIEZ, C. 2002. Effects of acetoacetate and D-beta-hydroxybutyrate on bovine in vitro embryo development in serum-free medium. *Theriogenology*, 57, 1551-1562.

GOYACHE, F., ROYO, L., ALVAREZ, I. & GUTIERREZ, J. 2002. Testing a continuous variation in preweaning expression of muscular hypertrophy in beef cattle using field data. *Archiv Fur Tierzucht-Archives of Animal Breeding*, 45, 139-149.

GUTIERREZ, J., ALVAREZ, I., FERNANDEZ, I., ROYO, L., DIEZ, J. & GOYACHE, F. 2002. Genetic relationships between calving date, calving interval, age at first calving and type traits in beef cattle. *Livestock Production Science*, 78, 215-222.

GUTIERREZ, J. & GOYACHE, F. 2002. Estimation of genetic parameters of type traits in Asturiana de los Valles beef cattle breed. *Journal of Animal Breeding and Genetics*, 119, 93-100.

OSORO, K., MARTINEZ, A. & CELAYA, R. 2002. Effect of breed and sward height on sheep performance and production per hectare during the spring and autumn in Northern Spain. *Grass and Forage Science*, 57, 137-146.

AÑO 2003

BALSEIRO, A., PRIETO, J., ESPI, A., PEREZ, V. & MARIN, J. 2003. Presence of focal and multifocal paratuberculosis lesions in mesenteric lymph nodes and the ileocaecal valve of cattle positive to the tuberculin skin test. *Veterinary Journal*, 166, 210-212.

DIAZ-HERNANDEZ, B., CIORDIA-ARA, M., COQUE-FUERTE, M. & PEREIRA-LORENZO, S. 2003. Performance of six Asturian apple (*Malus domestica*) cultivars growing on two rootstocks for cider production. *Journal American Pomological Society*, 57, 121-127.

DIEZ, J., BAHAMONDE, A., ALONSO, J., LOPEZ, S., DEL COZ, J., QUEVEDO, J., RANILLA, J., LUACES, O., ALVAREZ, I., ROYO, L. & GOYACHE, F. 2003. Artificial intelligence techniques point out differences in classification performance between light and standard bovine carcasses. *Meat Science*, 64, 249-258.

DUQUE, P., GOMEZ, E., DIAZ, E., FACAL, N., HIDALGO, C. & DIEZ, C. 2003a. Use of two replacements of serum during bovine embryo culture in vitro. *Theriogenology*, 59, 889-899

DUQUE, P., HIDALGO, C., GOMEZ, E., PINTADO, B., FACAL, N. & DIEZ, C. 2003b. Macromolecular source as dependent on osmotic pressure and water source: effects on bovine in vitro embryo development and quality. *Reproduction Nutrition Development*, 43, 487-496.

FERNANDEZ, L., LOPEZ, J., SECADES, P., MENENDEZ, A., MARQUEZ, I. & GUIJARRO, J. 2003. In vitro and in vivo studies of the Yrp1 protease from *Yersinia ruckeri* and its role in protective immunity against enteric red mouth disease of salmonids. *Applied and Environmental Microbiology*, 69, 7328-7335.

GOMEZ, E., ROYO, L., DUQUE, P., CARNEIRO, G., HIDALGO, C., GOYACHE, F., LORENZO, P., ALVAREZ, I., FACAL, N. & DIEZ, C. 2003. 9-cis-retinoic acid during in vitro maturation improves development of the bovine oocyte and increases midkine but not IGF-I expression in cumulus-granulosa cells. *Molecular Reproduction and Development*, 66, 247-255.

GOMIS, D., TAMAYO, D. & ALONSO, J. 2003. Evolution of sugars in cider brandy aged in oak barrels: A contribution to its characterization. *Journal of Agricultural and Food Chemistry*, 51, 923-926.

GOYACHE, F., FERNANDEZ, I., ROYO, L., ALVAREZ, I. & GUTIERREZ, J. 2003a. Factors affecting actual weaning weight, preweaning average daily gain and relative growth rate in Asturiana de los Valles beef cattle breed. *Archiv Fur Tierzucht-Archives of Animal Breeding*, 46, 235-243.

GOYACHE, F., GUTIERREZ, J., ALVAREZ, I., FERNANDEZ, I., ROYO, L. & GOMEZ, E. 2003b. Genetic analysis of calf survival at different preweaning ages in beef cattle. *Livestock Production Science*, 83, 13-20.

GOYACHE, F., GUTIERREZ, J., FERNANDEZ, I., GOMEZ, E., ALVAREZ, I., DIEZ, J. & ROYO, L. 2003c. Using pedigree information to monitor genetic variability of endangered populations: the Xalda sheep breed of Asturias as an example. *Journal of Animal Breeding and Genetics*, 120, 95-105.

HIDALGO, C., DIEZ, C., DUQUE, F., FACAL, N. & GOMEZ, E. 2003. Pregnancies and improved early embryonic development with bovine oocytes matured in vitro with 9-cis-retinoic acid. *Reproduction*, 125, 409-416.

MADRERA, R., GOMIS, D. & ALONSO, J. 2003a. Influence of distillation system, oak wood type, and aging time on composition of cider brandy in phenolic and furanic compounds. *Journal of Agricultural and Food Chemistry*, 51, 7969-7973.

MADRERA, R., GOMIS, D. & ALONSO, J. 2003b. Influence of distillation system, oak wood type, and aging time on volatile compounds of cider brandy. *Journal of Agricultural and Food Chemistry*, 51, 5709-5714.

MADRERA, R. R., GOMIS, D. B. & ALONSO, J. J. M. 2003c. Characterization of cider brandy on the basis of aging time. *Journal of Food Science*, 68, 1958-1961.

MIÑARRO, A. & DAPENA, T. 2003. Effects of groundcover management on ground beetles (Coleoptera : Carabidae) in an apple orchard. *Applied Soil Ecology*, 23, 111-117.

PIEDRAFITA, J., QUINTANILLA, R., SANUDO, C., OLLETA, J., CAMPO, M., PANEA, B., RENAND, G., TURIN, F., JABET, S., OSORO, K., OLIVAN, M., NOVAL, G., GARCIA, P., GARCIA, M., OLIVER, M., GISPERT, M., SERRA, X., ESPEJO, M., GARCIA, S., LOPEZ, M. & IZQUIERDO, M. 2003. Carcass quality of 10 beef cattle breeds of the Southwest of Europe in their typical production systems. *Livestock Production Science*, 82, 1-13.

AÑO 2004

- ALVAREZ, I., ROYO, L., FERNANDEZ, I., GUTIERREZ, J., GOMEZ, E. & GOYACHE, F. 2004. Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites. *Journal of Animal Science*, 82, 2246-2252.
- CIORDIA, M., GARCIA, J., DIAZ, M. & SIMPSON, D. 2004. Agronomic behaviour of four highbush blueberry cultivars in Northern Spain. *Proceedings of the Euro Berry Symposium - Cost 836 Final Workshop*, 301-304.
- DAPENA, E., BLAZQUEZ, M., LAURENS, F. & EVANS, K. 2004. Improvement of the resistance to scab, rosy apple aphid and fire blight in a breeding programme of cider apple cultivars. *Proceedings of the XIth Eucarpia Symposium on Fruit Breeding and Genetics, Vols 1 and 2*, 725-727.
- FERNANDEZ, L., MARQUEZ, I. & GUIJARRO, J. 2004. Identification of specific in vivo-induced (ivi) genes in *Yersinia ruckeri* and analysis of ruckerbactin, a catecholate siderophore iron acquisition system. *Applied and Environmental Microbiology*, 70, 5199-5207.
- FERREIRA, L., OLIVAN, M., RODRIGUES, M., OSORO, K., DOVE, H. & DIAS-DA-SILVA, A. 2004. Estimation of feed intake by cattle using controlled-release capsules containing n-alkanes or chromium sesquioxide. *Journal of Agricultural Science*, 142, 225-234.
- GOMEZ, E., RODRIGUEZ, A., GOYACHE, F., DIEZ, C., ROYO, L., MOREIRA, P., CAAMAÑO, J., MORAN, E. & GUTIERREZ-ADAN, A. 2004. Retinoid-dependent mRNA expression and poly-(A) contents in bovine oocytes meiotically arrested and/or matured in vitro. *Molecular Reproduction and Development*, 69, 101-108.
- GOMIS, D., TAMAYO, D., VALLES, B. & ALONSO, J. 2004. Detection of apple juice concentrate in the manufacture of natural and sparkling cider by means of HPLC chemometric sugar analyses. *Journal of Agricultural and Food Chemistry*, 52, 201-203.
- GONZALEZ, A., TELLO, J. & HERRERO, M. 2004. First report of *Pythium tracheiphilum* causing wilt and leaf blight on lettuce (*Lactuca sativa*) in Spain. *Plant Disease*, 88, 1382-1382.
- HIDALGO, C., GOMEZ, E., PRIETO, L., DUQUE, P., GOYACHE, H., FERNANDEZ, L., FERNANDEZ, I., FACAL, N. & DIEZ, C. 2004. Pregnancy rates and metabolic profiles in cattle treated with propylene glycol prior to embryo transfer. *Theriogenology*, 62, 664-676.
- MIÑARRO, M., DAPENA, E., LAURENS, F. & EVANS, K. 2004. Inheritance of tolerance to the rosy apple aphid of the cv. 'Florina'. *Proceedings of the XIth Eucarpia Symposium on Fruit Breeding and Genetics, Vols 1 and 2*, 261-264.
- ORTEGA, U., DUNABEITIA, M., MENENDEZ, S., GONZALEZ-MURUA, C. & MAJADA, J. 2004. Effectiveness of mycorrhizal inoculation in the nursery on growth and water relations of *Pinus radiata* in different water regimes. *Tree Physiology*, 24, 65-73.

AÑO 2005

- ABRODO, P., CABRALES, I., ALONSO, J. & BLANCO-GOMIS, D. 2005. Fatty acid composition of cider obtained either by traditional or controlled fermentation. *Food Chemistry*, 92, 183-187.
- ALDAI, N., MURRAY, B., NAJERA, A., TROY, D. & OSORO, K. 2005. Derivatization of fatty acids and its application for conjugated linoleic acid studies in ruminant meat lipids. *Journal of the Science of Food and Agriculture*, 85, 1073-1083.
- ALVAREZ, I., GUTIERREZ, J., ROYO, L., FERNANDEZ, I., GOMEZ, E., ARRANZ, J. & GOYACHE, F. 2005. Testing the usefulness of the molecular coancestry information to assess genetic relationships in livestock using a set of Spanish sheep breeds. *Journal of Animal Science*, 83, 737-744.
- BAERSON, S., SANCHEZ-MOREIRAS, A., PEDROL-BONJOCH, N., SCHULZ, M., KAGAN, I., AGARWAL, A., REIGOSA, M. & DUKE, S. 2005. Detoxification and transcriptome response in Arabidopsis seedlings exposed to the allelochemical benzoxazolin-2(3H)-one. *Journal of Biological Chemistry*, 280, 21867-21881.
- BALSEIRO, A., ESPI, A., MARQUEZ, I., PEREZ, V., FERRERAS, M., MARIN, J. & PRIETO, J. 2005. Pathological features in marine birds affected by the prestige's oil spill in the north of Spain. *Journal of Wildlife Diseases*, 41, 371-378.
- CASTRILLO, C., BAUCCELLS, M., VICENTE, F., MUÑOZ, F. & ANDUEZA, D. 2005. Energy evaluation of extruded compound foods for dogs by near-infrared spectroscopy. *Journal of Animal Physiology and Animal Nutrition*, 89, 194-198.
- DIEZ, C., DUQUE, P., GOMEZ, E., HIDALGO, C., TAMARGO, C., RODRIGUEZ, A., FERNANDEZ, L., DE LA VARGA, S., FERNANDEZ, A., FACAL, N. & CARBAJO, M. 2005. Bovine oocyte vitrification before or after meiotic arrest: effects on ultrastructure and developmental ability. *Theriogenology*, 64, 317-333.
- FERRE, I., BENITO-PENA, A., GARCIA, U., OSORO, K. & ORTEGA-MORA, L. 2005. Effect of different decoquinate treatments on cryptosporidiosis in naturally infected cashmere goat kids. *Veterinary Record*, 157, 261-262.
- FERREIRA, L., OLIVAN, M., GARCIA, U., RODRIGUES, M. & OSORO, K. 2005. Validation of the alkane technique to estimate diet selection of goats grazing heather-gorse vegetation communities. *Journal of the Science of Food and Agriculture*, 85, 1636-1646.
- GONZALEZ, A., TELLO, J. & DE CARA, M. 2005a. First report of *Erwinia persicina* from *Phaseolus vulgaris* in Spain. *Plant Disease*, 89, 109-109.

- GONZALEZ, A., TELLO, J. & RODICIO, M. 2005b. Bacterial wilt of beans (*Phaseolus vulgaris*) caused by *Curtobacterium flaccumfaciens* in southeastern Spain. *Plant Disease*, 89, 1361-1361.
- GOYACHE, F., DIEZ, J., LOPEZ, S., PAJARES, G., SANTOS, B., FERNANDEZ, I. & PRIETO, M. 2005a. Machine Learning as an aid to management decisions on high somatic cell counts in dairy farms. *Archiv Fur Tierzucht-Archives of Animal Breeding*, 48, 138-148.
- GOYACHE, F., GUTIERREZ, J., FERNANDEZ, I., ROYO, L. & ALVAREZ, I. 2005b. Genetic analysis of days open in beef cattle. *Livestock Production Science*, 93, 283-289.
- GUTIERREZ, J. & GOYACHE, F. 2005. A note on ENDOG: a computer program for analysing pedigree information. *Journal of Animal Breeding and Genetics*, 122, 172-176.
- GUTIERREZ, J., MARMI, J., GOYACHE, F. & JORDANA, J. 2005a. Pedigree information reveals moderate to high levels of inbreeding and a weak population structure in the endangered Catalanian donkey breed. *Journal of Animal Breeding and Genetics*, 122, 378-386.
- GUTIERREZ, J., ROYO, L., ALVAREZ, I. & GOYACHE, F. 2005b. MolKin v2.0: A computer program for genetic analysis of populations using molecular coancestry information. *Journal of Heredity*, 96, 718-721.
- HADJIGEORGIOU, I., OSORO, K., DE ALMEIDA, J. & MOLLE, G. 2005. Southern European grazing lands: Production, environmental and landscape management aspects. *Livestock Production Science*, 96, 51-59.
- HIDALGO, C., DIEZ, C., DUQUE, P., PRENDES, J., RODRIGUEZ, A., GOYACHE, F., FERNANDEZ, I., FACAL, N., IKEDA, S., ALONSO-MONTES, C. & GOMEZ, E. 2005. Oocytes recovered from cows treated with retinol become unviable as blastocysts produced in vitro. *Reproduction*, 129, 411-421.
- LOBO, A., MADRERA, R. & ALONSO, J. 2005a. A study of cider distillates using sensory and chromatographic data and chemometric analysis. *Journal of Food Science*, 70, S204-S207.
- LOBO, A., TASCON, N., MADRERA, R. & VALLES, B. 2005b. Sensory and foaming properties of sparkling cider. *Journal of Agricultural and Food Chemistry*, 53, 10051-10056.
- MADRERA, R. & ALONSO, J. 2005. Typification of cider brandy on the basis of cider used in its manufacture. *Journal of Agricultural and Food Chemistry*, 53, 3071-3075.

- MADRERA, R., GARCIA, N., HEVIA, A. & VALLES, B. 2005. Application of purge and trap extraction and gas chromatography for determination of minor esters in cider. *Journal of Chromatography a*, 1069, 245-251.
- MENDEZ-VIGO, B., RODRIGUEZ-SUAREZ, C., PANEDA, A., FERREIRA, J. & GIRALDEZ, R. 2005. Molecular markers and allelic relationships of anthracnose resistance gene cluster B4 in common bean. *Euphytica*, 141, 237-245.
- MUKESHIMANA, G., PANEDA, A., RODRIGUEZ-SUAREZ, C., FERREIRA, J., GIRALDEZ, R. & KELLY, J. 2005. Markers linked to the bc-3 gene conditioning resistance to bean common mosaic potyviruses in common bean. *Euphytica*, 144, 291-299.
- ROYO, L., ALVAREZ, I., BEJA-PEREIRA, A., MOLINA, A., FERNANDEZ, I., JORDANA, J., GOMEZ, E., GUTIERREZ, J. & GOYACHE, F. 2005a. The origins of Iberian horses assessed via mitochondrial DNA. *Journal of Heredity*, 96, 663-669.
- ROYO, L., ALVAREZ, I., FERNANDEZ, I., ARRANZ, J., GOMEZ, E. & GOYACHE, F. 2005b. The coding sequence of the ASIP gene is identical in nine wild-type coloured cattle breeds. *Journal of Animal Breeding and Genetics*, 122, 357-360.
- SUAREZ, B., PALACIOS, N., FRAGA, N. & RODRIGUEZ, R. 2005. Liquid chromatographic method for quantifying polyphenols in ciders by direct injection. *Journal of Chromatography A*, 1066.
- VALERA, M., MOLINA, A., GUTIERREZ, J., GOMEZ, J. & GOYACHE, F. 2005. Pedigree analysis in the Andalusian horse: population structure, genetic variability and influence of the Carthusian strain. *Livestock Production Science*, 95, 57-66.
- VALLES, B., BEDRINANA, R., TASCON, N., GARCIA, A. & MADRERA, R. 2005a. Analytical differentiation of cider inoculated with yeast (*Saccharomyces cerevisiae*) isolated from Asturian (Spain) apple juice. *Lwt-Food Science and Technology*, 38, 455-461.
- VALLES, E., GARCIA, N., MADRERA, R. & LOBO, A. 2005b. Influence of yeast strain and aging time on free amino acid changes in sparkling ciders. *Journal of Agricultural and Food Chemistry*, 53, 6408-6413.

AÑO 2006

ALDAI, N., MURRAY, B., OLIVAN, M., MARTINEZ, A., TROY, D., OSORO, K. & NAJERA, A. 2006a. The influence of breed and mh-genotype on carcass conformation, meat physico-chemical characteristics, and the fatty acid profile of muscle from yearling bulls. *Meat Science*, 72, 486-495.

ALDAI, N., OSORO, K., BARRON, L. & NAJERA, A. 2006b. Gas-liquid chromatographic method for analysing complex mixtures of fatty acids including conjugated linoleic acids (cis9trans11 and trans10cis12 isomers) and long-chain (n-3 or n-6) polyunsaturated fatty acids - Application to the intramuscular fat of beef meat. *Journal of Chromatography a*, 1110, 133-139.

ALVAREZ, B., SECADES, P., PRIETO, M., MCBRIDE, M. & GUIJARRO, J. 2006. A mutation in *Flavobacterium psychrophilum* tlpB inhibits gliding motility and induces biofilm formation. *Applied and Environmental Microbiology*, 72, 4044-4053.

ALVAREZ J, J., FERNANDEZ, L., KATCHICUALULA, A., DE LA VARGA, S., DIEZ, C., HIDALGO, C., TAMARGO, C. & CARBAJO, M. 2006. Development of bovine embryos produced in vitro: Effect of growth factors during maturation. *Reproduction in Domestic Animals*, 41, 334-334.

CAAMAÑO, J., SALAS, A., MARCOS, J., RODRIGUEZ, A., DIEZ, C., BORRAGAN, S., PRATHER, R. & GOMEZ, E. 2006. Flow cytometric cell cycle analysis of cultured brown bear fibroblasts. *Biology of Reproduction*, 182-182.

CIORDIA, M., DE LUCAS, M., MATEOS, V., RODRIGUEZ, L., GARCIA, J., MAJADA, J., DAFONSECA, L. & MUNOZ, F. 2006a. Optimization of germination requirement and seed production of wild-type *Vaccinium myrtillus*. *Proceedings of the 8th International Symposium on Vaccinium Culture*, 85-90.

CIORDIA, M., GARCIA, J., DIAZ, M., DAFONSECA, L. & MUÑOZ, F. 2006b. Off-season production of Southern highbush blueberries in the north of Spain. *Proceedings of the 8th International Symposium on Vaccinium Culture*, 317-322.

DIEZ, C., RODRIGUEZ, A., HIDALGO, C., TAMARGO, C., CARBAJO, M., FERNANDEZ, L., FACAL, N., DUQUE, P. & GOMEZ, E. 2006a. Replacing sodium with choline chloride in the freezing medium for bovine Oocytes does not improve cryosurvival. *Reproduction in Domestic Animals*, 41, 333-333.

DIEZ, J., ALBERTI, P., RIPOLL, G., LAHOZ, F., FERNANDEZ, I., OLLETA, J., PANEA, B., SANUDO, C., BAHAMONDE, A. & GOYACHE, F. 2006b. Using machine learning procedures to ascertain the influence of beef carcass profiles on carcass conformation scores. *Meat Science*, 73, 109-115.

GOMEZ, E., CAAMAÑO, J., RODRIGUEZ, A., DE FRUTOS, C., FACAL, N. & DIEZ, C. 2006. Bovine early embryonic development and vitamin A. *Reproduction in Domestic Animals*, 41, 63-71.

GONZALEZ, A. & RODICIO, M. 2006. Pseudomonas viridiflava causing necrotic leaf spots and defoliation on Hebe spp. in northern Spain. *Plant Disease*, 90, 830-830.

GUTIERREZ, J., FERNANDEZ, I., ALVAREZ, I., ROYO, L. & GOYACHE, F. 2006. Sire x contemporary group interactions for birth weight and preweaning growth traits in the Asturiana de los Valles beef cattle breed. *Livestock Science*, 99, 61-68.

IKEDA, S., PRENDES, J., ALONSO-MONTES, C., RODRIGUEZ, A., DIEZ, C., KITAGAWA, M., IMAI, H. & GOMEZ, E. 2006. Apoptosis-independent poor morphology of bovine embryos produced by multiple ovulation. *Reproduction in Domestic Animals*, 41, 383-385.

LOBO, A., VALLES, B., TASCÓN, N., MADRERA, R. & GARCIA, O. 2006. Calibration models for routine analysis of cider by mid-infrared spectroscopy. *Lwt-Food Science and Technology*, 39, 1026-1032.

MADRERA, R., LOBO, A. & VALLES, B. 2006a. Phenolic profile of Asturian (Spain) natural cider. *Journal of Agricultural and Food Chemistry*, 54, 120-124.

MADRERA, R., VALLES, B., HEVIA, A., FERNANDEZ, O., TASCÓN, N. & ALONSO, J. 2006b. Production and composition of cider spirits distilled in "alquitara". *Journal of Agricultural and Food Chemistry*, 54, 9992-9997.

ORTEGA, U., MAJADA, J., MENA-PETITE, A., SANCHEZ-ZABALA, J., RODRIGUEZ-ITURRIZAR, N., TXARTERINA, K., AZPITARTE, J. & DUNABEITIA, M. 2006. Field performance of Pinus radiata D. Don produced in nursery with different types of containers. *New Forests*, 31, 97-112.

PEREIRA-LORENZO, S., DIAZ-HERNANDEZ, M. & RAMOS-CABRER, A. 2006a. Use of highly discriminating morphological characters and isozymes in the study of Spanish chestnut cultivars. *Journal of the American Society For Horticultural Science*, 131, 770-779.

RODRIGUEZ, A., DIEZ, C., IKEDA, S., ROYO, L., CAAMAÑO, J., ALONSO-MONTES, C., GOYACHE, F., ALVAREZ, I., FACAL, N. & GOMEZ, E. 2006a. Retinoids during the in vitro transition from bovine morula to blastocyst. *Human Reproduction*, 21, 2149-2157.

RODRIGUEZ, A., GOMEZ, E., ANTOLIN, I., DUQUE, P., HIDALGO, C., ALONSO, C., TAMARGO, C., FERNANDEZ, L., CARBAJO, M., FACAL, N., CAAMAÑO, J. & DIEZ, C. 2006b. Ultrastructure and development of vitrified/warmed bovine oocytes matured with 9-cis retinoic acid. *Cell Preservation Technology*, 4, 123-129.

SERRANO, E., FERRE, I., OSORO, K., ADURIZ, G., MATEOS-SANZ, A., MARTINEZ, A., ATXAERANDIO, R., HIDALGO, C. & ORTEGA-MORA, L. 2006. Intrauterine Neospora caninum inoculation of heifers. *Veterinary Parasitology*, 135, 197-203.

TAMARGO, C., CARBAJO, M., DIEZ, C., DE LA VARGA, S. & HIDALGO, C. 2006. Estimation of seasonal effect on sperm motility in fresh semen from bulls. *Reproduction in Domestic Animals*, 41, 314-314.

AÑO 2007

ALDAI, N., NAJERA, A., DUGAN, M., CELAYA, R. & OSORO, K. 2007a. Characterisation of intramuscular, intermuscular and subcutaneous adipose tissues in yearling bulls of different genetic groups. *Meat Science*, 76, 682-691.

ALDAI, N., NAJERA, A., MARTINEZ, A., CELAYA, R. & OSORO, K. 2007b. Correlation between carcass conformation and fat cover degree, and muscle fatty acid profile of yearling bulls depending on breed and mh-genotype. *Livestock Science*, 107, 199-212.

ALVAREZ, I., ROYO, L., GUTIERREZ, J., FERNANDEZ, I., ARRANZ, J. & GOYACHE, F. 2007. Genetic diversity loss due to selection for scrapie resistance in the rare Spanish Xalda sheep breed. *Livestock Science*, 111, 204-212.

ARGAMENTERIA, A., VICENTE, F., MARTINEZ-FERNANDEZ, A. & DE LA ROZA, B. 2007. Effect of the inclusion of soya bean forage and the phenological state of wheat in the production and quality of milk. *Itea-Informacion Tecnica Economica Agraria*, 153-155.

AZOR, P., VALERA, M., GOMEZ, M., GOYACHE, F. & MOLINA, A. 2007. Genetic characterization of the Spanish Trotter horse breed using microsatellite markers. *Genetics and Molecular Biology*, 30, 37-42.

BALCAZAR, J., DE BLAS, I., RUIZ-ZARZUELA, I., VENDRELL, D., CALVO, A., MARQUEZ, I., GIRONES, O. & MUZQUIZ, J. 2007. Changes in intestinal microbiota and humoral immune response following probiotic administration in brown trout (*Salmo trutta*). *British Journal of Nutrition*, 97, 522-527.

BENAVIDES, R., MONTES, F., RUBIO, A. & OSORO, K. 2007. Geostatistical modelling of air temperature in a mountainous region of Northern Spain. *Agricultural and Forest Meteorology*, 146, 173-188.

BLANCO-GOMIS, D., MANGAS-ALONSO, J., JUNCO-CORUJEDO, S. & GUTIERREZ-ALVAREZ, M. 2007. Cider proteins and foam characteristics: A contribution to their characterization. *Journal of Agricultural and Food Chemistry*, 55, 2526-2531.

CABALLERO, B., SIERRA, V., OLIVAN, M., VEGA-NAREDO, I., TOMAS-ZAPICO, C., ALVAREZ-GARCIA, O., TOLIVIA, D., HARDELAND, R., RODRIGUEZ-COLUNGA, M. & COTO-MONTES, A. 2007. Activity of cathepsins during beef aging related to mutations in the myostatin gene. *Journal of the Science of Food and Agriculture*, 87, 192-199.

CASAI, R., PRIETO, M., BALSEIRO, A., SOLANO, P., PARRA, F. & ALONSO, J. 2007. Identification and heterologous expression of a *Sarcoptes scabiei* cDNA encoding a structural antigen with immunodiagnostic potential. *Veterinary Research*, 38, 435-450.

CELAYA, R., OLIVAN, M., FERREIRA, L., MARTINEZ, A., GARCIA, U. & OSORO, K. 2007. Comparison of grazing behaviour, dietary overlap and performance in non-lactating domestic ruminants grazing on marginal heathland areas. *Livestock Science*, 106, 271-281.

DE FRUTOS, C., RODRIGUEZ, A., DIEZ, C., CAAMAÑO, J., FACAL, N., DUQUE, P., GARCIA-OCHOA, C. & GOMEZ, E. 2007. Effect of leukemia inhibitory factor from human and mouse origin on the development of bovine embryos produced in vitro. *Reproduction Fertility and Development*, 19, 204-205.

DE LA ROZA-DELGADO, B., SOLDADO, A., MARTINEZ-FERNANDEZ, A., VICENTE, F., GARRIDO-VARO, A., PEREZ-MARIN, D., DE LA HABA, M. & GUERRERO-GINEL, J. 2007. Application of near-infrared microscopy (NIRM) for the detection of meat and bone meals in animal feeds: A tool for food and feed safety. *Food Chemistry*, 105, 1164-1170.

DIEZ, C., RODRIGUEZ, A., DE FRUTOS, C., CAAMAÑO, J., FACAL, N. & GOMEZ, E. 2007. Retinoic acid does not protect against the selective damage to the bovine inner cell mass inflicted by vitrification. *Reproduction Fertility and Development*, 19, 174-174.

FERREIRA, L., GARCIA, U., RODRIGUE, M., CELAYA, R., DIAS-DA-SILVA, A. & OSORO, K. 2007a. The application of the n-alkane technique for estimating the composition of diets consumed by equines and cattle feeding on upland vegetation communities. *Animal Feed Science and Technology*, 138, 47-60.

FERREIRA, L., GARCIA, U., RODRIGUES, M., CELAYA, R., DIAS-DA-SILVA, A. & OSORO, K. 2007b. Estimation of feed intake and apparent digestibility of equines and cattle grazing on heathland vegetation communities using the n-alkane markers. *Livestock Science*, 110, 46-56.

FERREIRA, L., OLIVAN, M., CELAYA, R., GARCIA, U., RODRIGUES, M. & OSORO, K. 2007c. The use of n-alkanes to estimate diet composition of ruminants grazing on species diverse plant communities - Effect of feeding selectivity on diet composition estimates. *Livestock Science*, 111, 114-123.

GARCIA-PALOMA, J., MARTINEZ, M., LOMBARDIA, V. & SUAREZ, F. 2007. Reproductive efficiency of beef cattle in the mountainous regions of the Asturias. *Itea-Informacion Tecnica Economica Agraria*, 84-86.

GOMEZ, E., RODRIGUEZ, A., DE FRUTOS, C., CAAMAÑO, J., FACAL, N. & DIEZ, C. 2007. In vitro culture of bovine embryos with neurotrophins. *Reproduction Fertility and Development*, 19, 205-206.

GONZALEZ, A., TELLO, J. & RODICIO, M. 2007a. *Erwinia persicina* causing chlorosis and necrotic spots in leaves and tendrils of *Pisum sativum* in southeastern Spain. *Plant Disease*, 91, 460-460.

GONZALEZ, J., FARIA-MARMOL, J., RODRIGUEZ, C. & MARTINEZ, A. 2007b. Effects of ensiling on ruminal degradability and intestinal digestibility of Italian rye-grass. *Animal Feed Science and Technology*, 136, 38-50.

GUTIERREZ, J., GOYACHE, F., FERNANDEZ, I., ALVAREZ, I. & ROYO, L. 2007a. Genetic relationships among calving ease, calving interval, birth weight, and weaning weight in the Asturiana de los Valles beef cattle breed. *Journal of Animal Science*, 85, 69-75.

GUTIERREZ, J., LEGAZ, E. & GOYACHE, F. 2007b. Genetic parameters affecting 180-days standardised milk yield, test-day milk yield and lactation length in Spanish Assaf (Assaf.E) dairy sheep. *Small Ruminant Research*, 70, 233-238.

JAUREGUI, B., CELAYA, R., GARCIA, U. & OSORO, K. 2007a. Vegetation dynamics in burnt heather-gorse shrublands under different grazing management with sheep and goats. *Agroforestry Systems*, 70, 103-111.

JAUREGUI, B., CELAYA, R., GARCIA, U. & OSORO, K. 2007b. Vegetation dynamics in burnt heather-gorse shrublands under different grazing management with sheep and goats. *Agroforestry Systems*, 70, 103-111.

MADRERA, R. & VALLES, B. 2007. Determination of volatile compounds in cider spirits by gas chromatography with direct injection. *Journal of Chromatographic Science*, 45, 428-434.

MIÑARRO, M. & DAPENA, E. 2007. Resistance of apple cultivars to *Dysaphis plantaginea* (Hemiptera : Aphididae): Role of tree phenology in infestation avoidance. *Environmental Entomology*, 36, 1206-1211.

OLIVAN, M., FERREIRA, L., CELAYA, R. & OSORO, K. 2007a. Accuracy of the n-alkane technique for intake estimates in beef cattle using different sampling procedures and feeding levels. *Livestock Science*, 106, 28-40.

OLIVAN, M., FERREIRA, L., GARCIA, U., CELAYA, R. & OSORO, K. 2007b. Application of n-alkanes as diet composition markers in grazing/browsing goats and sheep: effect of using different faecal recovery corrections and plant species grouping approaches. *Australian Journal of Agricultural Research*, 58, 1013-1022.

OLIVAN, M., FERREIRA, L., GARCIA, U., CELAYA, R. & OSORO, K. 2007c. Application of n-alkanes as diet composition markers in grazing/browsing goats and sheep: effect of using different faecal recovery corrections and plant species grouping approaches. *Australian Journal of Agricultural Research*, 58, 1013-1022.

OSORO, K., BENITO-PENA, A., FRUTOS, P., GARCIA, U., ORTEGA-MORA, L., CELAYA, R. & FERRE, I. 2007a. The effect of heather supplementation on gastrointestinal nematode infections and performance in Cashmere and local Celtiberic goats on pasture. *Small Ruminant Research*, 67, 184-191.

OSORO, K., GARCIA, U., JAUREGUI, B., FERREIRA, L., ROOK, A. & CELAYA, R. 2007b. Diet selection and live-weight changes of two breeds of goats grazing on heathlands. *Animal*, 1, 449-457.

OSORO, K., MATEOS-SANZ, A., FRUTOS, P., GARCIA, U., ORTEGA-MORA, L., FERREIRA, L., CELAYA, R. & FERRE, I. 2007c. Anthelmintic and nutritional effects of heather supplementation on Cashmere goats grazing perennial ryegrass-white clover pastures. *Journal of Animal Science*, 85, 861-870.

OSORO, K., ORTEGA-MORA, L., MARTINEZ, A., SERRANO, E. & FERRE, I. 2007d. Bovine neosporosis: Natural breeding with experimentally-infected bulls failed to induce seroconversion in heifers. *Reproduction in Domestic Animals*, 42, 120-121.

PAJARES, G., ALVAREZ, I., FERNANDEZ, I., PEREZ-PARDAL, L., GOYACHE, F. & ROYO, L. 2007. A sexing protocol for wild ruminants based on PCR amplification of amelogenin genes AMELX and AMELY (short communication). *Archiv Fur Tierzucht-Archives of Animal Breeding*, 50, 442-446.

PEREZ, S., ROYO, L., ASTUDILLO, A., ESCUDERO, D., ALVAREZ, F., RODRIGUEZ, A., GOMEZ, E. & OTERO, J. 2007. Identifying the most suitable endogenous control for determining gene expression in hearts from organ donors. *Bmc Molecular Biology*, 8.

RODRIGUEZ, A., DE FRUTOS, C., DIEZ, C., CAAMAÑO, J., FACAL, N., DUQUE, P., GARCIA-OCHOA, C. & GOMEZ, E. 2007a. Effects of human versus mouse leukemia inhibitory factor on the in vitro development of bovine embryos. *Theriogenology*, 67, 1092-1095.

RODRIGUEZ, A., DIEZ, C., CAAMAÑO, J., DE FRUTOS, C., ROYO, L., MUNOZ, M., IKEDA, S., FACAL, N., ALVAREZ-VIEJO, M. & GOMEZ, E. 2007b. Retinoid receptor-specific agonists regulate bovine in vitro early embryonic development, differentiation and expression of genes related to cell cycle arrest and apoptosis. *Theriogenology*, 68, 1118-1127.

RODRIGUEZ-SUAREZ, C., MENDEZ-VIGO, B., PANEDA, A., FERREIRA, J. & GIRALDEZ, R. 2007. A genetic linkage map of *Phaseolus vulgaris* L. and localization of genes for specific resistance to six races of anthracnose (*Colletotrichum lindemuthianum*). *Theoretical and Applied Genetics*, 114, 713-722.

ROYO, L., PAJARES, G., ALVAREZ, I., FERNANDEZ, I. & GOYACHE, F. 2007. Genetic variability and differentiation in Spanish roe deer (*Capreolus capreolus*): A phylogeographic reassessment within the European framework. *Molecular Phylogenetics and Evolution*, 42, 47-61.

SERRANO-MARTINEZ, E., FERRE, I., MARTINEZ, A., OSORO, K., MATEOS-SANZ, A., DEL-POZO, I., ADURIZ, G., TAMARGO, C., HIDALGO, C. & ORTEGA-MORA, L. 2007a. Experimental neosporosis in bulls: Parasite detection in semen and blood and specific antibody and interferon-gamma responses. *Theriogenology*, 67, 1175-1184.

SERRANO-MARTINEZ, E., FERRE, I., OSORO, K., ADURIZ, G., MOTA, R., MARTINEZ, A., DEL-POZO, I., HIDALGO, C. & ORTEGA-MORA, L. 2007b. Intrauterine *Neospora caninum* inoculation of heifers and cows using contaminated semen with different numbers of tachyzoites. *Theriogenology*, 67, 729-737.

TAMARGO, C., DIEZ, C., DE LA FUENTE, J., CARBAJO, M., BENITO, J. & HIDALGO, C. 2007. Sperm characterization of Asturcon ponies after collection and equilibration/refrigeration before freezing. *Reproduction Fertility and Development*, 19, 128-129.

VALLEDOR, L., HASBUN, R., MEIJON, M., RODRIGUEZ, J., SANTAMARIA, E., VIEJO, M., BERDASCO, M., FEITO, I., FRAGA, M., CANAL, M. & RODRIGUEZ, R. 2007. Involvement of DNA methylation in tree development and micropropagation. *Plant Cell Tissue and Organ Culture*, 91, 75-86.

VALLES, B., BEDRIÑANA, R., GARCIA, A. & SIMON, A. 2007a. A molecular genetic study of natural strains of *Saccharomyces* isolated from Asturian cider fermentations. *Journal of Applied Microbiology*, 103, 778-786.

VALLES, B., BEDRIÑANA, R., TASCÓN, N., SIMON, A. & MADRERA, R. 2007b. Yeast species associated with the spontaneous fermentation of cider. *Food Microbiology*, 24, 25-31.

VICENTE, F., GONZALEZ, M., PEREZ, M., PRESA, P. & DE LA ROZA-DELGADO, B. 2007. Validation of the RTi-PCR technique for the detection and quantification of animal origin ingredients in compound feeding. *Itea-Informacion Tecnica Economica Agraria*, 147-149.

AÑO 2008

ALDAI, N., DUGAN, M., NAJERA, A. & OSORO, K. 2008. N-6 and n-3 fatty acids in different beef adipose tissues depending on the presence or absence of the gene responsible for double-muscling. *Czech Journal of Animal Science*, 53, 515-522.

ALMINANA, C., GIL, M., CUELLO, C., CABALLERO, I., ROCA, J., VAZQUEZ, J., GOMEZ, E. & MARTINEZ, E. 2008. In vitro maturation of porcine oocytes with retinoids improves embryonic development. *Reproduction Fertility and Development*, 20, 483-489.

ALVAREZ, I., ROYO, L., FERNANDEZ, I., GUTIERREZ, J., PEREZ-PARDAL, L., GUERRA, V., RINCON, C., TRAORE, A. & GOYACHE, F. 2008a. Genetic differentiation between two geographic subpopulations of Bermeya goat. *Itea-Informacion Tecnica Economica Agraria*, 104, 290-294.

ALVAREZ, I., ROYO, L., GUTIERREZ, J., FERNANDEZ, I., ARRANZ, J. & GOYACHE, F. 2008b. Relationship between genealogical and microsatellite information characterizing losses of genetic variability: Empirical evidence from the rare Xalda sheep breed. *Livestock Science*, 115, 80-88.

AZOR, P., CERVANTES, I., VALERA, M., ARRANZ, J., MEDINA, C., GUTIERREZ, J., GOYACHE, F., MUNOZ, A. & MOLINA, A. 2008. Preliminary assessment of population structure of Spanish Merino Breed: traditional strains situation using genealogical and molecular analysis. *Itea-Informacion Tecnica Economica Agraria*, 104, 295-302.

BALSEIRO, A., MARIN, J., SOLANO, P., GARRIDO, J. & PRIETO, J. 2008. Histopathological classification of lesions observed in natural cases of paratuberculosis in free-ranging fallow deer (*Dama dama*). *Journal of Comparative Pathology*, 138, 180-188.

CAAMAÑO, J., MUNOZ, M., ALVAREZ-VIEJO, M., DIEZ, C., DE FRUTOS, C., RODRIGUEZ, A., FACAL, N., OTERO, J. & GOMEZ, E. 2008a. Development, differentiation, and Trk expression in parthenogenetic bovine blastocysts. *Reproduction Fertility and Development*, 20, 199-200.

CAAMAÑO, J., MUNOZ, M., GUTIERREZ-ADAN, A., BERMEJO-ALVAREZ, P., DIEZ, C., OTERO, J., ALVAREZ-VIEJO, M., CARROCERA, S., MARTIN, D. & GOMEZ, E. 2008b. Timing of blastocyst expansion in bovine IVF embryos and parthenotes affects expression of genes involved in pluripotency, methylation, apoptosis and pregnancy recognition. *Reproduction in Domestic Animals*, 43, 62-62.

CAAMAÑO, J., RODRIGUEZ, A., MUNOZ, M., DE FRUTOS, C., DIEZ, C. & GOMEZ, E. 2008c. Cryopreservation of brown bear skin biopsies. *Cell Preservation Technology*, 6, 83-86.

CAAMAÑO, J., RODRIGUEZ, A., SALAS, A., MUNOZ, M., DIEZ, C., PRATHER, R. & GOMEZ, E. 2008d. Flow cytometric cell cycle analysis of cultured brown bear fibroblast cells. *Cell Biology International*, 32, 855-859.

CASAI, R., MOLLEDA, L., MACHIN, A., DEL BARRIO, G., MANZO, A., DALTON, K., COTO, A., ALONSO, J., PRIETO, M. & PARRA, F. 2008. Structural and functional analysis of virus factories purified from Rabbit vesivirus-infected Vero cells. *Virus Research*, 137, 112-121.

CELAYA, R., BENAVIDES, R., GARCIA, U., FERREIRA, L. M. M., FERRE, I., MARTINEZ, A., ORTEGA-MORA, L. M. & OSORO, K. 2008. Grazing behaviour and performance of lactating suckler cows, ewes and goats on partially improved heathlands. *Animal*, 2.

CERVANTES, I., GOYACHE, F. & GUTIERREZ, J. 2008a. Ratio between inbreeding and coancestry rates as a measure of population subdivision. Preliminary results. *Itea-Informacion Tecnica Economica Agraria*, 104, 303-307.

CERVANTES, I., GOYACHE, F., MOLINA, A., VALERA, M. & GUTIERREZ, J. 2008b. Application of individual increase in inbreeding to estimate realized effective sizes from real pedigrees. *Journal of Animal Breeding and Genetics*, 125, 301-310.

CERVANTES, I., MOLINA, A., GOYACHE, F., GUTIERREZ, J. P. & VALERA, M. 2008c. Population history and genetic variability in the Spanish Arab Horse assessed via pedigree analysis. *Livestock Science*, 113, 24-33.

FERNANDEZ, L., CARBAJO, M., DIEZ, C. & MUNOZ, M. 2008. IGF-I and litter size in pregnant rats treated with a nitric oxide inhibitor (L-NAME) and rhIGF-I. *Reproduction in Domestic Animals*, 43, 56-57.

FERNANDEZ-IBAÑEZ, M., SOLDADO, A., VICENTE, F., MARTINEZ-FERNANDEZ, A. & DE LA ROZA-DELGADO, B. 2008. Particle size optimisation in development of near infrared microscopy methodology to build spectral libraries of animal feeds. *Journal of Near Infrared Spectroscopy*, 16, 243-248.

FERRE, I., SERRANO-MARTINEZ, E., MARTINEZ, A., OSORO, K., MATEOS-SANZ, A., DEL-POZO, I., ADURIZ, G., TAMARGO, C., HIDALGO, C. O. & ORTEGA-MORA, L. M. 2008. Effects of re-infection with *Neospora caninum* in bulls on parasite detection in semen and blood and immunological responses. *Theriogenology*, 69, 905-911.

FERREIRA, J., CAMPA, A., PEREZ-VEGA, E. & GIRALDEZ, R. 2008. Reaction of a bean germplasm collection against five races of *Colletotrichum lindemuthianum* identified in northern Spain and implications for breeding. *Plant Disease*, 92, 705-708.

FRUTOS, P., MORENO-GONZALO, J., HERVAS, G., GARCIA, U., FERREIRA, L., CELAYA, R., TORAL, P., ORTEGA-MORA, L., FERRE, I. & OSORO, K. 2008. Is the anthelmintic effect of heather supplementation to grazing goats always accompanied by anti-nutritional effects? *Animal*, 2, 1449-1456.

GOMEZ, E., CAAMAÑO, J., MUÑOZ, M., RODRIGUEZ, A., FACAL, N. & DIEZ, C. 2008a. Development and quality of bovine morulae cultured in serum-free medium with retinoic receptor specific agonists. *Reproduction Fertility and Development*, 20, 144-144.

GOMEZ, E., DIEZ, C., MUÑOZ, M., MARTIN, D., CARROCERA, S. & CAAMAÑO, J. 2008b. Effects of polarized light Microscopy on the viability of in vitro matured bovine oocytes. *Reproduction in Domestic Animals*, 43, 64-65.

GOMEZ, E., RODRIGUEZ, A., CAAMAÑO, J., DIEZ, C., FACAL, N. & MUÑOZ, M. 2008c. Tyrosine kinase receptors (TRK) and bovine early embryonic development. *Reproduction in Domestic Animals*, 43, 8-8.

GOMEZ, E., RODRIGUEZ, A., MUÑOZ, M., CAAMAÑO, J. N., HIDALGO, C. O., MORAN, E., FACAL, N. & DIEZ, C. 2008d. Serum free embryo culture medium improves in vitro survival of bovine blastocysts to vitrification. *Theriogenology*, 69, 1013-1021.

GOMEZ, M., GOYACHE, F., MOLINA, A. & VALERA, M. 2009. Sire x stud interaction for body measurement traits in Spanish Purebred horses. *Journal of Animal Science*, 87, 2502-2509.

GOMEZ, M., VALERA, M., MOLINA, A. & GOYACHE, F. 2008e. Sire x stud effect on estimation of genetic parameters for body traits in Spanish Purebred horse: Preliminary results. *Itea-Informacion Tecnica Economica Agraria*, 104, 256-261.

GUTIERREZ, J., CERVANTES, I., MOLINA, A., VALERA, M. & GOYACHE, F. 2008. Individual increase in inbreeding allows estimating effective sizes from pedigrees. *Genetics Selection Evolution*, 40, 359-378.

HIDALGO, C., RODRIGUEZ, A., DIEZ, C., MARTIN, D., CARBAJO, M., MARTINEZ, A., DE LA FUENTE, J., PALASZ, A., BENITO, J. & TAMARGO, C. 2008a. Morphological and functional parameters of endangered Bermeya goat breed semen. *Reproduction Fertility and Development*, 20, 87-87.

HIDALGO, C., RODRIGUEZ, A., PEREZ-GARNELO, S., PALASZ, A., DE LA FUENTE, J., CARBAJO, M. & TAMARGO, C. 2008b. Differences between fresh and frozen-thawed semen from endangered asturiana de la montana bulls selected for a genetic resource bank. *Reproduction in Domestic Animals*, 43, 210-211.

KATCHICUALULA, A., ALVAREZ, J., FERNANDEZ, L., DIEZ, C., DE LA VARGA, S., HIDALGO, C., TAMARGO, C. & CARBAJO, M. 2008. In vitro culture of bovine embryos with a combination of growth factors. *Reproduction in Domestic Animals*, 43, 64-64.

LEGAZ, E., ALVAREZ, I., ROYO, L., FERNANDEZ, I., GUTIERREZ, J. & GOYACHE, F. 2008. Genetic relationships between Spanish Assaf (Assaf.E) and Spanish native dairy sheep breeds. *Small Ruminant Research*, 80, 39-44.

LOPEZ, S., MORENO, N., AUGUSTO, D., GONZALEZ, A., MENENDEZ, F., GONI, F. & HERNANDEZ, J. 2008. A Molecular Approach to Apoptosis in the Human Heart During Brain Death. *Transplantation*, 86, 977-982.

MADRERA, R. R., HEVIA, A. G., GARCIA, N. P. & VALLES, B. S. 2008. Evolution of aroma compounds in sparkling ciders. *Lwt-Food Science and Technology*, 41, 2064-2069.

- MIGUEL, C., PEREZ-GARNELO, S., BRENA, P., PALASZ, A., DE LA FUENTE, J., RODRIGUEZ, A. & HIDALGO, C. 2008. Freezing of semen from endangered asturiana de la monta(n)over-tildea bulls in zwitteronic lipids-based extenders. *Reproduction Fertility and Development*, 20, 161-161.
- MIÑARRO, M. & DAPENA, E. 2008. Tolerance of some scab-resistant apple cultivars to the rosy apple aphid, *Dysaphis plantaginea*. *Crop Protection*, 27, 391-395.
- MORENO-SANZ, P., SUAREZ, B. & LOUREIRO, M. 2008. Identification of synonyms and homonyms in grapevine cultivars (*Vitis vinifera* L.) from Asturias (Spain). *Journal of Horticultural Science & Biotechnology*, 83, 683-688.
- MUINO, R., TAMARGO, C., HIDALGO, C. O. & PENA, A. I. 2008. Identification of sperm subpopulations with defined motility characteristics in ejaculates from Holstein bulls: Effects of cryopreservation and between-bull variation. *Animal Reproduction Science*, 109, 27-39.
- MUÑOZ, M., DIEZ, C., CAAMAÑO, J., JOUNEAU, A., HUE, I. & GOMEZ, E. 2008a. Embryonic stem cells in cattle. *Reproduction in Domestic Animals*, 43, 32-37.
- MUNOZ, M., RODRIGUEZ, A., DE FRUTOS, C., CAAMANO, J., DIEZ, C., FACAL, N. & GOMEZ, E. 2008b. Conventional pluripotency markers are unspecific for bovine embryonic-derived cell-lines. *Theriogenology*, 69, 1159-1164.
- OLEAGA, A., BALSEIRO, A. & GORTAZAR, C. 2008a. Sarcoptic mange in two roe deer (*Capreolus capreolus*) from northern Spain. *European Journal of Wildlife Research*, 54, 134-137.
- OLEAGA, A., CASAIS, R., GONZALEZ-QUIROS, P., PRIETO, M. & GORTAZAR, C. 2008b. Sarcoptic mange in red deer from Spain: Improved surveillance or disease emergence? *Veterinary Parasitology*, 154, 103-113.
- PALOMA, J. & KATCHICUALULA, A. 2008. Breeding soundness evaluation in asturiana de valles young bulls. *Reproduction in Domestic Animals*, 43, 78-78.
- PANEDA, A., RODRIGUEZ-SUAREZ, C., CAMPA, A., FERREIRA, J. & GIRALDEZ, R. 2008. Molecular markers linked to the fin gene controlling determinate growth habit in common bean. *Euphytica*, 162, 241-248.
- PEREZ-PARDAL, L., BALSEIRO, A., ALVAREZ, I., RINCON, C., FERNANDEZ, I., GOYACHE, F., PAJARES, G. & ROYO, L. 2008. Studying intersexuality and antler development disorders in Iberian roe deer. *Reproduction in Domestic Animals*, 43, 52-52.
- RODRIGUEZ-SUAREZ, C., FERREIRA, J., CAMPA, A., PANEDA, A. & GIRALDEZ, R. 2008. Molecular mapping and intra-cluster recombination between anthracnose race-specific resistance genes in the common bean differential cultivars Mexico 222 and Widusa. *Theoretical and Applied Genetics*, 116, 807-814.

ROYO, L., ALVAREZ, I., ARRANZ, J., FERNANDEZ, I., RODRIGUEZ, A., PEREZ-PARDAL, L. & GOYACHE, F. 2008. Differences in the expression of the ASIP gene are involved in the recessive black coat colour pattern in sheep: evidence from the rare Xalda sheep breed. *Animal Genetics*, 39, 290-293.

SIERRA, V., ALDAI, N., CASTRO, P., OSORO, K., COTO-MONTES, A. & OLIVAN, M. 2008. Prediction of the fatty acid composition of beef by near infrared transmittance spectroscopy. *Meat Science*, 78, 248-255.

TRAORE, A., ROYO, L., ALVAREZ, I., FERNANDEZ, I., GUTIERREZ, J., RINCON, C., PEREZ-PARDAL, L. & GOYACHE, F. 2008a. Adjacent mutations to ovine PrnP codons 136 and 171 affect performance of the diagnostic protocol based on RT-PCR coupled to fluorescence probes. *Itea-Informacion Tecnica Economica Agraria*, 104, 106-109.

TRAORE, A., TAMBOURA, H., KABORE, A., ROYO, L., FERNANDEZ, I., ALVAREZ, I., SANGARE, M., BOUCHEL, D., POIVEY, J., FRANCOIS, D., SAWADOGO, L. & GOYACHE, F. 2008b. Multivariate analyses on morphological traits of goats in Burkina Faso. *Archiv Fur Tierzucht-Archives of Animal Breeding*, 51, 588-600.

TRAORE, A., TAMBOURA, H., KABORE, A., ROYO, L., FERNANDEZ, I., ALVAREZ, I., SANGARE, M., BOUCHEL, D., POIVEY, J., FRANCOIS, D., TOGUYENI, A., SAWADOGO, L. & GOYACHE, F. 2008c. Multivariate characterization of morphological traits in Burkina Faso sheep. *Small Ruminant Research*, 80, 62-67.

VALLES, B., BEDRINANA, R., QUEIPO, A. & ALONSO, J. 2008. Screening of cider yeasts for sparkling cider production (Champenoise method). *Food Microbiology*, 25, 690-697.

AÑO 2009

ALVAREZ, A., DEL BARRIO, G., KOURI, V., MARTINEZ, P., SUAREZ, B. & PARRA, F. 2009a. In vitro anti-herpetic activity of an aqueous extract from the plant *Phyllanthus orbicularis*. *Phytomedicine*, 16, 960-966.

ALVAREZ, I., GUTIERREZ, J., ROYO, L., FERNANDEZ, I. & GOYACHE, F. 2009b. Quantifying diversity losses due to selection for scrapie resistance in three endangered Spanish sheep breeds using microsatellite information. *Preventive Veterinary Medicine*, 91, 172-178.

ALVAREZ, I., TRAORE, A., TAMBOURA, H., KABORE, A., ROYO, L., FERNANDEZ, I., OUEDRAOGO-SANOU, G., SAWADOGO, L. & GOYACHE, F. 2009c. Microsatellite Analysis Characterizes Burkina Faso as a Genetic Contact Zone Between Sahelian and Djallonke Sheep. *Animal Biotechnology*, 20, 47-57.

BALSEIRO, A., DALTON, K., DEL CERRO, A., MARQUEZ, I., CUNNINGHAM, A., PARRA, F., PRIETO, J. & CASAIS, R. 2009a. Pathology, isolation and molecular characterisation of a ranavirus from the common midwife toad *Alytes obstetricans* on the Iberian Peninsula. *Diseases of Aquatic Organisms*, 84, 95-104.

BALSEIRO, A., OLEAGA, A., ORUSA, R., ROBETTO, S., ZOPPI, S., DONDO, A., GORIA, M., GORTAZAR, C., MARIN, J. & DOMENIS, L. 2009b. Tuberculosis in roe deer from Spain and Italy. *Veterinary Record*, 164, 468-470.

BENAVIDES, R., ROIG, S. & OSORO, K. 2009. Potential productivity of forested areas based on a biophysical model. A case study of a mountainous region in northern Spain. *Annals of Forest Science*, 66.

BLANCO-GOMIS, D., MANGAS-ALONSO, J. J., JUNCO-CORUJEDO, S. & GUTIERREZ-ALVAREZ, M. D. 2009. Characterisation of sparkling cider by the yeast type used in taking foam on the basis of polypeptide content and foam characteristics. *Food Chemistry*, 115, 375-379.

CAAMAÑO, J., DIEZ, C., MUÑOZ, M., MARTIN, D., MORATO, R., MOGAS, T., CARROCERA, S. & GOMEZ, E. 2009. DETECTION OF MICROTUBULES BY POLARIZED LIGHT MICROSCOPY IN BOVINE OOCYTES. *Reproduction Fertility and Development*, 21, 219-219.

CABALLERO, B., VEGA-NAREDO, I., SIERRA, V., DEGONZALO-CALVO, D., MEDRANO-CAMPILLO, P., GUERRERO, J., TOLIVIA, D., RODRIGUEZ-COLUNGA, M. & COTO-MONTES, A. 2009. Autophagy upregulation and loss of NF-kappa B in oxidative stress-related immunodeficient SAMP8 mice. *Mechanisms of Ageing and Development*, 130, 722-730.

CAMPA, A., GIRALDEZ, R. & FERREIRA, J. 2009. Genetic dissection of the resistance to nine anthracnose races in the common bean differential cultivars MDRK and TU. *Theoretical and Applied Genetics*, 119, 1-11.

CHESSA, B., PEREIRA, F., ARNAUD, F., AMORIM, A., GOYACHE, F., MAINLAND, I., KAO, R., PEMBERTON, J., BERALDI, D., STEAR, M., ALBERTI, A., PITTAU, M., IANNUZZI, L., BANABAZI, M., KAZWALA, R., ZHANG, Y., ARRANZ, J., ALI, B., WANG, Z., UZUN, M., DIONE, M., OLSAKER, I., HOLM, L., SAARMA, U., AHMAD, S., MARZANOV, N., EYTHORSDDOTTIR, E., HOLLAND, M., AJMONE-MARSAN, P., BRUFORD, M., KANTANEN, J., SPENCER, T. & PALMARINI, M. 2009. Revealing the History of Sheep Domestication Using Retrovirus Integrations. *Science*, 324, 532-536.

COTO-MONTES, A., TOMAS-ZAPICO, C., MARTINEZ-FRAGA, J., VEGA-NAREDO, I., SIERRA, V., CABALLERO, B., HUIDOBRO-FERNANDEZ, C., SORIA-VALLES, C., TOLIVIA, D. & RODRIGUEZ-COLUNGA, M. 2009. Sexual Autophagic Differences in the Androgen-Dependent Flank Organ of Syrian Hamsters. *Journal of Andrology*, 30, 113-121.

DE FRANCA, S., DE OLIVEIRA, J., PICANCO, M., LOBO, A., DA SILVA, E. & GONTIJO, P. 2009. Selection of attractive food sources and toxicity of insecticides in tomato fruit borer management. *Pesquisa Agropecuaria Brasileira*, 44, 561-568.

DIEZ, C., BERMEJO-ALVAREZ, P., GUTIERREZ-ADAN, A., CAAMANO, J., MUNOZ, M., CARROCERA, S., MARTIN, D. & GOMEZ, E. 2009a. Testosterone in the oocyte culture does not alter sex-ratio of in vitro produced bovine embryos. *Reproduction Fertility and Development*, 21, 229-230.

DIEZ, C., BERMEJO-ALVAREZ, P., TRIGAL, B., CAAMANO, J., MUNOZ, M., MOLINA, I., GUTIERREZ-ADAN, A., CARROCERA, S., MARTIN, D. & GOMEZ, E. 2009b. Changes in Testosterone or Temperature During the In Vitro Oocyte Culture Do not Alter the Sex Ratio of Bovine Embryos. *Journal of Experimental Zoology Part a-Ecological Genetics and Physiology*, 311A, 448-452.

FERNANDEZ-IBÁÑEZ, V., FEARN, T., SOLDADO, A. & DE LA ROZA-DELGADO, B. 2009. Spectral library validation to identify ingredients of compound feedingstuffs by near infrared reflectance microscopy. *Talanta*, 80, 54-60.

GARCIA, Y., VALLES, B. & LOBO, A. 2009. Phenolic and antioxidant composition of by-products from the cider industry: Apple pomace. *Food Chemistry*, 117, 731-738.

GOMEZ, E., CAAMAÑO, J., BERMEJO-ALVAREZ, P., DIEZ, C., MUÑOZ, M., MARTIN, D., CARROCERA, S. & GUTIERREZ-ADAN, A. 2009a. Gene Expression in Early Expanded Parthenogenetic and In Vitro Fertilized Bovine Blastocysts. *Journal of Reproduction and Development*, 55, 607-614.

GOMEZ, E., GUTIERREZ-ADAN, A., DIEZ, C., BERMEJO-ALVAREZ, P., MUNOZ, M., RODRIGUEZ, A., OTERO, J., ALVAREZ-VIEJO, M., MARTIN, D., CARROCERA, S. & CAAMANO, J. 2009b. Biological differences between in vitro produced bovine embryos and parthenotes. *Reproduction*, 137, 285-295.

GOMEZ, E., MUÑOZ, M., RODRIGUEZ, A., CAAMAÑO, J. N., FACAL, N. & DIEZ, C. 2009c. Vitrification of Bovine Blastocysts Produced In Vitro Inflicts Selective Damage to the Inner Cell Mass. *Reproduction in Domestic Animals*, 44.

GOMEZ, M., GOYACHE, F., MOLINA, A. & VALERA, M. 2009d. Sire x stud interaction for body measurement traits in Spanish Purebred horses. *Journal of Animal Science*, 87, 2502-2509.

GONZALEZ, A., GONZALEZ-VARELA, G. & GEA, F. 2009. Brown Blotch Caused by *Pseudomonas tolaasii* on Cultivated *Pleurotus eryngii* in Spain. *Plant Disease*, 93, 667-667.

GUTIERREZ, J., CERVANTES, I. & GOYACHE, F. 2009. Improving the estimation of realized effective population sizes in farm animals. *Journal of Animal Breeding and Genetics*, 126, 327-332.

LOBO, A., GARCIA, Y., SANCHEZ, J., MADRERA, R. & VALLES, B. 2009. Phenolic and antioxidant composition of cider. *Journal of Food Composition and Analysis*, 22, 644-648.

MCIVOR, I., DOUGLAS, G. & BENAVIDES, R. 2009. Coarse root growth of Veronese poplar trees varies with position on an erodible slope in New Zealand. *Agroforestry Systems*, 76, 251-264.

MEIJON, M., VALLEDOR, L., SANTAMARIA, E., TESTILLANO, P., RISUEÑO, M., RODRIGUEZ, R., FEITO, I. & CANAL, M. 2009. Epigenetic characterization of the vegetative and floral stages of azalea buds: Dynamics of DNA methylation and histone H4 acetylation. *Journal of Plant Physiology*, 166, 1624-1636.

MUINO, R., PENA, A., RODRIGUEZ, A., TAMARGO, C. & HIDALGO, C. 2009a. Effect of Cryopreservation on the Determined Motile Subpopulations of Spermatozoa from Asturiana de los Valles Bulls. *Reproduction in Domestic Animals*, 44, 117-117.

MUINO, R., PENA, A., RODRIGUEZ, A., TAMARGO, C. & HIDALGO, C. 2009b. Effects of cryopreservation on the motile sperm subpopulations in semen from Asturiana de los Valles bulls. *Theriogenology*, 72, 860-868.

MUÑOZ, M., RODRIGUEZ, A., DIEZ, C., CAAMAÑO, J. N., FERNANDEZ-SANCHEZ, M. T., PEREZ-GOMEZ, A., DE FRUTOS, C., FACAL, N. & GOMEZ, E. 2009a. Tyrosine kinase A, C and fibroblast growth factor-2 receptors in bovine embryos cultured in vitro. *Theriogenology*, 71.

MUÑOZ, M., TRIGAL, B., MOLINA, I., DIEZ, C., CAAMAÑO, J. & GOMEZ, E. 2009b. Constraints to Progress in Embryonic Stem Cells from Domestic Species. *Stem Cell Reviews and Reports*, 5, 6-9.

PEREZ-PARDAL, L., ROYO, L., ALVAREZ, I., DE LEON, F., FERNANDEZ, I., CASAIS, R. & GOYACHE, F. 2009. Female segregation patterns of the putative Y-chromosome-specific microsatellite markers INRA124 and INRA126 do not support their use for cattle population studies. *Animal Genetics*, 40, 560-564.

PEREZ-VEGA, E., CAMPA, A., DE LA ROSA, L., GIRALDEZ, R. & FERREIRA, J. 2009. Genetic Diversity in a Core Collection Established from the Main Bean Genebank in Spain. *Crop Science*, 49, 1377-1386.

PICINELLI LOBO, A., DINEIRO GARCIA, Y., MANGAS SANCHEZ, J., RODRIGUEZ MADRERA, R. & SUAREZ VALLES, B. 2009. Phenolic and antioxidant composition of cider. *Journal of Food Composition and Analysis*, 22.

RODRIGUEZ MADRERA, R. & SUAREZ VALLES, B. 2009. Determination of ethyl carbamate in cider spirits by HPLC-FLD. *Food Control*, 20.

AÑO 2010

ALDAI, N., DUGAN, M., JUAREZ, M., MARTINEZ, A. & OSORO, K. 2010. Double-muscling character influences the trans-18:1 and conjugated linoleic acid profiles in concentrate-fed yearling bulls. *Meat Science*, 85, 59-65.

ALVAREZ, I., ROYO, L., PEREZ-PARDAL, L., FERNANDEZ, I., PAYERAS, L. & GOYACHE, F. 2010. Assessing losses of genetic variability in the endangered Mallorqui horse. *Czech Journal of Animal Science*, 55, 456-462.

ARANDA, I., ALIA, R., ORTEGA, U., DANTAS, A. & MAJADA, J. 2010. Intra-specific variability in biomass partitioning and carbon isotopic discrimination under moderate drought stress in seedlings from four *Pinus pinaster* populations. *Tree Genetics & Genomes*, 6, 169-178.

BALSEIRO, A., DALTON, K., DEL CERRO, A., MARQUEZ, I., PARRA, F., PRIETO, J. & CASAIS, R. 2010. Outbreak of common midwife toad virus in alpine newts (*Mesotriton alpestris cyreni*) and common midwife toads (*Alytes obstetricans*) in Northern Spain A comparative pathological study of an emerging ranavirus. *Veterinary Journal*, 186, 256-258.

BARTOLOME, E., GOYACHE, F., MOLINA, A., CERVANTES, I., VALERA, M. & GUTIERREZ, J. 2010. Pedigree estimation of the (sub) population contribution to the total gene diversity: the horse coat colour case. *Animal*, 4, 867-875.

BEDRIÑANA, R., SIMON, A. & VALLES, B. 2010. Genetic and phenotypic diversity of autochthonous cider yeasts in a cellar from Asturias. *Food Microbiology*, 27, 503-508.

BLANCO-GOMIS, D., MANGAS-ALONSO, J., EXPOSITO-CIMADEVILLA, Y. & GUTIERREZ-ALVAREZ, M. 2010. Characterization of cider by its hydrophobic protein profile and foam parameters. *Food Chemistry*, 121, 220-226.

BOADELLA, M., CARTA, T., OLEAGA, A., PAJARES, G., MUÑOZ, M. & GORTAZAR, C. 2010. Serosurvey for selected pathogens in Iberian roe deer. *Bmc Veterinary Research*, 6.

CAAMAÑO, J., MUÑOZ, M., DIEZ, C. & GOMEZ, E. 2010. Polarized Light Microscopy in Mammalian Oocytes. *Reproduction in Domestic Animals*, 45, 49-56.

CELAYA, R., FERREIRA, L., MORENO-GONZALO, J., FRUTOS, P., HERVAS, G., FERRE, I., GARCIA, U., ORTEGA-MORA, L. & OSORO, K. 2010. Effects of heather and oat supplementation on gastrointestinal nematode infections and performance of grazing Cashmere goats. *Small Ruminant Research*, 91, 186-192.

CERVANTES, I., GUTIERREZ, J., FERNANDEZ, I. & GOYACHE, F. 2010a. Genetic relationships among calving ease, gestation length, and calf survival to weaning in the Asturiana de los Valles beef cattle breed. *Journal of Animal Science*, 88, 96-101.

CERVANTES, I., PEREZ-CABAL, M., MORANTE, R., BURGOS, A., SALGADO, C., NIETO, B., GOYACHE, F. & GUTIERREZ, J. 2010b. Genetic parameters and relationships between fibre and type traits in two breeds of Peruvian alpacas. *Small Ruminant Research*, 88, 6-11.

DEL CASTILLO, R., FERREIRA, J., PEREZ-VEGA, E., ALMIRALL, A. & CASANAS, F. 2010. Culinary alternatives for common beans (*Phaseolus vulgaris* L.): sensory characteristics of immature seeds. *Journal of the Science of Food and Agriculture*, 90, 1642-1649.

DEL CERRO, A., MARQUEZ, I. & PRIETO, J. 2010. Genetic diversity and antimicrobial resistance of *Flavobacterium psychrophilum* isolated from cultured rainbow trout, *Onchorynchus mykiss* (Walbaum), in Spain. *Journal of Fish Diseases*, 33, 285-291.

DIAZ LLORENTE, D., ARIAS ABRODO, P., DAPENA DE LA FUENTE, E., MANGAS ALONSO, J. J., GUTIERREZ ALVAREZ, M. D. & BLANCO GOMIS, D. 2010. A novel method for the determination of total 1,3-octanediols in apple juice via 1,3-dioxanes by solid-phase microextraction and high-speed gas chromatography. *Journal of Chromatography A*, 1217.

ESPI, A., PRIETO, J. & ALZAGA, V. 2010. Leptospiral antibodies in Iberian red deer (*Cervus elaphus hispanicus*), fallow deer (*Dama dama*) and European wild boar (*Sus scrofa*) in Asturias, Northern Spain. *Veterinary Journal*, 183, 226-227.

FALCONI, C., OLEAGA, A., LOPEZ-OLVERA, J., CASAIS, R., PRIETO, M. & GORTAZAR, C. 2010. Prevalence of antibodies against selected agents shared between Cantabrian chamois (*Rupicapra pyrenaica parva*) and domestic goats. *European Journal of Wildlife Research*, 56, 319-325.

FERNANDEZ-IBAÑEZ, V., FEARN, T., MONTANES, E., QUEVEDO, J., SOLDADO, A. & DE LA ROZA-DELGADO, B. 2010a. Improving the Discriminatory Power of a Near-Infrared Microscopy Spectral Library with a Support Vector Machine Classifier. *Applied Spectroscopy*, 64, 66-72.

FERNANDEZ-IBANEZ, V., FEARN, T., SOLDADO, A. & DE LA ROZA-DELGADO, B. 2010b. Development and validation of near infrared microscopy spectral libraries of ingredients in animal feed as a first step to adopting traceability and authenticity as guarantors of food safety. *Food Chemistry*, 121, 871-877.

FERREIRA, L., CELAYA, R., FALCO, V., OLIVAN, M., SANTOS, A., GUEDES, C., RODRIGUES, M. & OSORO, K. 2010a. Evaluation of very long-chain fatty acids and n-alkane epicuticular compounds as markers for estimating diet composition of sheep fed heathland vegetation species. *Animal Feed Science and Technology*, 156, 75-88.

FERREIRA, L., CELAYA, R., SANTOS, A., FALCO, V., GUEDES, C., RODRIGUES, M. & OSORO, K. 2010b. Comparison of long-chain fatty acids and alkanes as markers to estimate diet composition of equines and cattle consuming heathland vegetation species. *Livestock Science*, 131, 260-271.

GONZALEZ, J., FARIA-MARMOL, J., ARROYO, J., CENTENO, C. & MARTINEZ, A. 2010. Effects of ensiling on in situ ruminal degradability and intestinal digestibility of corn forage. *Archives of Animal Nutrition*, 64, 204-220.

GOYACHE, F., FERNANDEZ, I., ESPINOSA, M., PAYERAS, L., PEREZ-PARDAL, L., GUTIERREZ, J., ROYO, L. & ALVAREZ, I. 2010. Demographic and genetic analysis of the Mallorquina sheep flockbook. *Itea-Informacion Tecnica Economica Agraria*, 106, 3-14.

JORDANA, J., FERRANDO, A., MARMI, J., AVELLANET, R., ARANGUREN-MENDEZ, J. & GOYACHE, F. 2010. Molecular, genealogical and morphometric characterisation of the Pallaresa, a Pyrenean relic cattle breed: Insights for conservation. *Livestock Science*, 132, 65-72.

LLORENTE, D., ABRODO, P., DE LA FUENTE, E., ALONSO, J., ALVAREZ, M. & GOMIS, D. 2010. A novel method for the determination of total 1,3-octanediols in apple juice via 1,3-dioxanes by solid-phase microextraction and high-speed gas chromatography. *Journal of Chromatography a*, 1217, 2993-2999.

MADRERA, R., LOBO, A. & ALONSO, J. 2010a. Effect of cider maturation on the chemical and sensory characteristics of fresh cider spirits. *Food Research International*, 43, 70-78.

MADRERA, R., VALLES, B., GARCIA, Y., ARGUELLES, P. & LOBO, A. 2010b. Alternative Woods for Aging Distillates -An Insight into Their Phenolic Profiles and Antioxidant Activities. *Food Science and Biotechnology*, 19, 1129-1134.

MARTINEZ, A., ALDAI, N., CELAYA, R. & OSORO, K. 2010. Effect of breed body size and the muscular hypertrophy gene in the production and carcass traits of concentrate-finished yearling bulls. *Journal of Animal Science*, 88, 1229-1239.

MARTINEZ-FERNANDEZ, A., SOLDADO, A., VICENTE, F., MARTINEZ, A. & DE LA ROZA-DELGADO, B. 2010. Wilting and inoculation of *Lactobacillus buchneri* on intercropped triticale-fava silage: effects on nutritive, fermentative and aerobic stability characteristics. *Agricultural and Food Science*, 19, 302-312.

MEIJON, M., FEITO, I., VALLEDOR, L., RODRIGUEZ, R. & CANAL, M. 2010. Dynamics of DNA methylation and Histone H4 acetylation during floral bud differentiation in azalea. *Bmc Plant Biology*, 10.

MINARRO, M., FERNANDEZ-MATA, G. & MEDINA, P. 2010. Role of ants in structuring the aphid community on apple. *Ecological Entomology*, 35, 206-215.

MOLINA, I., MUNOZ, M., DIEZ, C., GOMEZ, E., MARTINEZ, E., MARTIN, D., TRIGAL, B., CARROCERA, S., GIL, M., SANCHEZ-OSORIO, J. & CAAMANO, J. 2010. Polarized light microscopy: detection of microtubules and its effects on the viability of in vitro-matured porcine oocytes. *Reproduction Fertility and Development*, 22, 332-332.

MORALES-ALMARAZ, E., SOLDADO, A., GONZALEZ, A., MARTINEZ-FERNANDEZ, A., DOMINGUEZ-VARA, I., DE LA ROZA-DELGADO, B. & VICENTE, F. 2010. Improving the fatty acid profile of dairy cow milk by combining grazing with feeding of total mixed ration. *Journal of Dairy Research*, 77, 225-230.

MUNOZ, P., BOADELLA, M., ARNAL, M., DE MIGUEL, M., REVILLA, M., MARTINEZ, D., VICENTE, J., ACEVEDO, P., OLEAGA, A., RUIZ-FONS, F., MARIN, C., PRIETO, J., DE LA FUENTE, J., BARRAL, M., BARBERAN, M., DE LUCO, D., BLASCO, J. & GORTAZAR, C. 2010. Spatial distribution and risk factors of Brucellosis in Iberian wild ungulates. *Bmc Infectious Diseases*, 10.

PASCUAL, A., CAMPA, A., PEREZ-VEGA, E., GIRALDEZ, R., MIKLAS, P. & FERREIRA, J. 2010. Screening Common Bean for Resistance to Four *Sclerotinia sclerotiorum* Isolates Collected in Northern Spain. *Plant Disease*, 94, 885-890.

PEREZ-CABAL, M., CERVANTES, I., MORANTE, R., BURGOS, A., GOYACHE, F. & GUTIERREZ, J. 2010. Analysis of the existence of major genes affecting alpaca fiber traits. *Journal of Animal Science*, 88, 3783-3788.

PEREZ-PARDAL, L., ROYO, L., BEJA-PEREIRA, A., CHEN, S., CANTET, R., TRAORE, A., CURIK, I., SOLKNER, J., BOZZI, R., FERNANDEZ, I., ALVAREZ, I., GUTIERREZ, J., GOMEZ, E., DE LEON, F. & GOYACHE, F. 2010a. Multiple paternal origins of domestic cattle revealed by Y-specific interspersed multilocus microsatellites. *Heredity*, 105, 511-519.

PEREZ-PARDAL, L., ROYO, L., BEJA-PEREIRA, A., CURIK, I., TRAORE, A., FERNANDEZ, I., SOLKNER, J., ALONSO, J., ALVAREZ, I., BOZZI, R., CHEN, S., DE LEON, F. & GOYACHE, F. 2010b. Y-specific microsatellites reveal an African subfamily in taurine (*Bos taurus*) cattle. *Animal Genetics*, 41, 232-241.

PEREZ-VEGA, E., PANEDA, A., RODRIGUEZ-SUAREZ, C., CAMPA, A., GIRALDEZ, R. & FERREIRA, J. 2010. Mapping of QTLs for morpho-agronomic and seed quality traits in a RIL population of common bean (*Phaseolus vulgaris* L.). *Theoretical and Applied Genetics*, 120, 1367-1380.

SANCHEZ-GOMEZ, D., MAJADA, J., ALIA, R., FEITO, I. & ARANDA, I. 2010. Intraspecific variation in growth and allocation patterns in seedlings of *Pinus pinaster* Ait. submitted to contrasting watering regimes: can water availability explain regional variation? *Annals of Forest Science*, 67.

SANTOS-DEL-BLANCO, L., ZAS, R., NOTIVOL, E., CHAMBEL, M., MAJADA, J. & CLIMENT, J. 2010. Variation of early reproductive allocation in multi-site genetic trials of Maritime pine and Aleppo pine. *Forest Systems*, 19, 381-392.

SIERRA, V., GUERRERO, L., FERNANDEZ-SUAREZ, V., MARTINEZ, A., CASTRO, P., OSORO, K., RODRIGUEZ-COLUNGA, M., COTO-MONTES, A. & OLIVAN, M. 2010. Eating quality of beef from biotypes included in the PGI "Ternera Asturiana" showing distinct physicochemical characteristics and tenderization pattern. *Meat Science*, 86, 343-351.

SUAREZ, B., ALVAREZ, A., GARCIA, Y., DEL BARRIO, G., LOBO, A. & PARRA, F. 2010. Phenolic profiles, antioxidant activity and in vitro antiviral properties of apple pomace. *Food Chemistry*, 120, 339-342.

TRIGAL, B., GOMEZ, E., DIEZ, C., CAAMANO, J., MOLINA, I., CARROCERA, S., MARTIN, D. & MUNOZ, M. 2010. In vitro development of bovine morulae produced and/or cultured with activin. *Reproduction Fertility and Development*, 22, 236-236.

AÑO 2011

ALASAAD, S., OLEAGA, A., CASAIS, R., ROSSI, L., MIN, A., SORIGUER, R. & GORTAZAR, C. 2011. Temporal stability in the genetic structure of *Sarcoptes scabiei* under the host-taxon law: empirical evidences from wildlife-derived *Sarcoptes* mite in Asturias, Spain. *Parasites & Vectors*, 4.

ALDAI, N., DUGAN, M., KRAMER, J., MARTINEZ, A., LOPEZ-CAMPOS, O., MANTECON, A. & OSORO, K. 2011. Length of concentrate finishing affects the fatty acid composition of grass-fed and genetically lean beef: an emphasis on trans-18:1 and conjugated linoleic acid profiles. *Animal*, 5, 1643-1652.

ALVAREZ, I., ROYO, L., PEREZ-PARDAL, L., FERNANDEZ, I., LORENZO, L. & GOYACHE, F. 2011. Assessing diversity losses due to selection for coat colour in the endangered bay-Asturcon pony using microsatellites. *Livestock Science*, 135, 199-204.

ANTON, A., ALONSO, J. & RODRIGUEZ, G. 2011. Are IPOs (Initial Public Offering) still outperforming the market? Evidence from Spain in the period 2000 to 2010. *African Journal of Business Management*, 5, 5775-5783.

BALSEIRO, A., MEREDIZ, I., SEVILLA, I., GARCIA-CASTRO, C., GORTAZAR, C., PRIETO, J. & DELAHAY, R. 2011a. Infection of Eurasian badgers (*Meles meles*) with *Mycobacterium avium* complex (MAC) bacteria. *Veterinary Journal*, 188, 231-233.

BALSEIRO, A., RODRIGUEZ, O., GONZALEZ-QUIROS, P., MEREDIZ, I., SEVILLA, I. A., DAVE, D., DALLEY, D. J., LESELLIER, S., CHAMBERS, M. A., BEZOS, J., MUNOZ, M., DELAHAY, R. J., GORTAZAR, C. & PRIETO, J. M. 2011b. Infection of Eurasian badgers (*Meles meles*) with *Mycobacterium bovis* and *Mycobacterium avium* complex in Spain. *Veterinary journal (London, England : 1997)*, 190.

BEDON, F., MAJADA, J., FEITO, I., CHAUMEIL, P., DUPUY, J., LOMENECH, A., BARRE, A., GION, J. & PLOMION, C. 2011. Interaction between environmental factors affects the accumulation of root proteins in hydroponically grown *Eucalyptus globulus* (Labill.). *Plant Physiology and Biochemistry*, 49, 69-76.

CAAMAÑO, J., CATALA, M., ROMAGUERA, R., DIEZ, C., MUÑOZ, M., MARTIN, D., MORATO, R., CARROCERA, S., MOGAS, T., PARAMIO, M. & GOMEZ, E. 2011a. Detection of microtubules by polarized light microscopy in sheep and goat oocytes. *Reproduction Fertility and Development*, 23, 226-227.

CAAMAÑO, J., MASIDE, C., GIL, M., MUÑOZ, M., CUELLO, C., DIEZ, C., SANCHEZ-OSORIO, J., MARTIN, D., GOMIS, J., VAZQUEZ, J., ROCA, J., CARROCERA, S., MARTINEZ, E. & GOMEZ, E. 2011b. Use of polarized light microscopy in porcine reproductive technologies. *Theriogenology*, 76, 669-677.

CAMPA, A., GIRALDEZ, R. & FERREIRA, J. 2011a. Genetic Analysis of the Resistance to Eight Anthracnose Races in the Common Bean Differential Cultivar Kaboon. *Phytopathology*, 101, 757-764.

CAMPA, A., PANEDA, A., PEREZ-VEGA, E., GIRALDEZ, R. & FERREIRA, J. 2011b. Mapping and use of seed protein loci for marker-assisted selection of growth habit and photoperiod response in Nua bean (*Phaseolus vulgaris* L.). *Euphytica*, 179, 383-391.

CELAYA, R., FERREIRA, L., GARCIA, U., GARCIA, R. & OSORO, K. 2011. Diet selection and performance of cattle and horses grazing in heathlands. *Animal*, 5, 1467-1473.

CERVANTES, I., GOYACHE, F., MOLINA, A., VALERA, M. & GUTIERREZ, J. 2011a. Estimation of effective population size from the rate of coancestry in pedigreed populations. *Journal of Animal Breeding and Genetics*, 128, 56-63.

CERVANTES, I., PASTOR, J., GUTIERREZ, J., GOYACHE, F. & MOLINA, A. 2011b. Computing effective population size from molecular data: The case of three rare Spanish ruminant populations. *Livestock Science*, 138, 202-206.

DE LA VARGA, S., DIEZ, C., FERNANDEZ, L., ALVAREZ, J., KATCHICUALULA, A., HIDALGO, C., TAMARGO, C. & CARBAJO, M. 2011. Culture system and long-term storage of culture media in the in vitro production of bovine embryos. *Acta Veterinaria Hungarica*, 59, 129-139.

EDWARDS, C., GINJA, C., KANTANEN, J., PEREZ-PARDAL, L., TRESSET, A., STOCK, F., GAMA, L., PENEDO, M., BRADLEY, D., LENSTRA, J., NIJMAN, I. & DIVERSITY, E. C. G. 2011. Dual Origins of Dairy Cattle Farming - Evidence from a Comprehensive Survey of European Y-Chromosomal Variation. *Plos One*, 6.

FERREIRA, L. M. M., CELAYA, R., SANTOS, A. S., FALCO, V., GUEDES, C., RODRIGUES, M. A. M. & OSORO, K. 2011. The utilization of long-chain fatty acids as markers for diet composition estimates in ruminants: effects of animal species, diet composition and marker combination. *Grass and Forage Science*, 66.

GOMEZ, E., DIEZ, C., CAAMAÑO, J. N., CORRALES, F. J., TRIGAL, B., MORENO, J. F., MARTIN, D., MORA, M. I., CARROCERA, S. & MUÑOZ, M. 2011. 79 adimorphic response to early male and female embryos in the bovine uterus. *Reproduction, fertility, and development*, 24.

LEGAZ, E., CERVANTES, I., PEREZ-CABAL, M., DE LA FUENTE, L., MARTINEZ, R., GOYACHE, F. & GUTIERREZ, J. 2011. Multivariate characterisation of morphological traits in Assaf (Assaf.E) sheep. *Small Ruminant Research*, 100, 122-130.

LOUREIRO, M., MORENO-SANZ, P. & SUAREZ, B. 2011. Clonal preselection of grapevine cultivars of the appellation "Cangas Quality Wine" (Asturias, Spain). *Horticultural Science*, 38, 71-80.

MADRERA, R. & ALONSO, J. 2011. Distribution of the principal minor volatiles during cider distillation in 'alquitara'. *Acta Alimentaria*, 40, 262-269.

MADRERA, R., VALLES, B. & LOBO, A. 2011. Chemical and sensory changes in fresh cider spirits during maturation in inert containers. *Journal of the Science of Food and Agriculture*, 91, 797-804.

MAJADA, J., MARTINEZ-ALONSO, C., FEITO, I., KIDELMAN, A., ARANDA, I. & ALIA, R. 2011. Mini-cuttings: an effective technique for the propagation of *Pinus pinaster* Ait. *New Forests*, 41, 399-412.

MASIDE, C., GIL, M., CUELLO, C., SANCHEZ-OSORIO, J., PARRILLA, I., LUCAS, X., CAAMANO, J., VAZQUEZ, J., ROCA, J. & MARTINEZ, E. 2011. Effects of Hoechst 33342 staining and ultraviolet irradiation on the developmental competence of in vitro-matured porcine oocytes. *Theriogenology*, 76, 1667-1675.

MEIJON, M., CANAL, M., FERNANDEZ, H., RODRIGUEZ, A., FERNANDEZ, B., RODRIGUEZ, R. & FEITO, I. 2011. Hormonal Profile in Vegetative and Floral Buds of Azalea: Levels of Polyamines, Gibberellins, and Cytokinins. *Journal of Plant Growth Regulation*, 30, 74-82.

MORALES-ALMARAZ, E., DE LA ROZA-DELGADO, B., GONZALEZ, A., SOLDADO, A., RODRIGUEZ, M. L., PELAEZ, M. & VICENTE, F. 2011. Effect of feeding system on unsaturated fatty acid level in milk of dairy cows. *Renewable Agriculture and Food Systems*, 26.

MORENO-SANZ, P., DOLORES LOUREIRO, M. & SUAREZ, B. 2011. Microsatellite characterization of grapevine (*Vitis vinifera* L.) genetic diversity in Asturias (Northern Spain). *Scientia Horticulturae*, 129.

PEREZ-PARDAL, L., GINJA, C., ROYO, L., ALVAREZ, I., FERNANDEZ, I., DEL VALLE, A., TRAORE, A., DE LEON, F., BEJA-PEREIRA, A., PENEDO, M. & GOYACHE, F. 2011. Genetic structure of the bovine Y-specific microsatellite UMN0103 reflects the genetic history of the species. *Animal Genetics*, 42, 566-567.

PRADO, N., FERNANDEZ-IBANEZ, V., GONZALEZ, P. & SOLDADO, A. 2011. On-Site NIR Spectroscopy to Control the Shelf Life of Pork Meat. *Food Analytical Methods*, 4, 582-589.

RODRIGUEZ MADRERA, R. & SUAREZ VALLES, B. 2011. Determination of Volatile Compounds in Apple Pomace by Stir Bar Sorptive Extraction and GasChromatography-Mass Spectrometry (SBSE-GC-MS). *Journal of Food Science*, 76.

SANCHEZ-GOMEZ, D., VELASCO-CONDE, T., CANO-MARTIN, F., GUEVARA, M., CERVERA, M. & ARANDA, I. 2011. Inter-clonal variation in functional traits in response to drought for a genetically homogeneous Mediterranean conifer. *Environmental and Experimental Botany*, 70, 104-109.

SOBRINO, R., AURTENETXE, O., CARTA, T., MAMIAN, L., GERRIKAGOITIA, X., BALSEIRO, A., OLEAGA, A., SEVILLA, I., BARRAL, M., GARRIDO, J. & GORTAZAR, C. 2011. Lack of evidence of paratuberculosis in wild canids from Southwestern Europe. *European Journal of Wildlife Research*, 57, 683-688.

SOLDADO, A., QUEVEDO, J., BAHAMONDE, A., MODROÑO, S., MARTINEZ-FERNANDEZ, A., VICENTE, F., PEREZ-MARIN, D., GARRIDO-VARO, A., GUERRERO, J. & DE LA ROZA-DELGADO, B. 2011. Validation of two discriminant strategies applied to NIRS data spectra for detection of animal meals in feedstuffs. *Spanish Journal of Agricultural Research*, 9, 41-48.

TRIGAL, B., GOMEZ, E., DIEZ, C., CAAMAÑO, J., MARTIN, D., CARROCERA, S. & MUÑOZ, M. 2011a. In vitro development of bovine embryos cultured with activin A. *Theriogenology*, 75, 584-588.

TRIGAL, B., GOMEZ, E., MUÑOZ, M., CAAMAÑO, J., CARROCERA, S., MARTIN, D., MORENO, J. & DIEZ, C. 2011b. In vitro development in three culture systems of bovine oocytes fertilized with sex-sorted sperm. *Reproduction Fertility and Development*, 23, 237-238.

TRIGAL, B., GOMEZ, E., MUÑOZ, M., CAAMAÑO, J., CARROCERA, S., MARTIN, D., MORENO, J. & DIEZ, C. 2011c. Methylation status in the intragenic differentially methylated region of the igf2 locus in unsorted and sex-sorted sperm. *Reproduction Fertility and Development*, 23, 237-237.

AÑO 2012

ALVAREZ, I., CAPOTE, J., TRAORE, A., FONSECA, N., PEREZ, K., CUERVO, M., FERNANDEZ, I. & GOYACHE, F. 2012a. Genetic relationships of the Cuban hair sheep inferred from microsatellite polymorphism. *Small Ruminant Research*, 104, 89-93.

ALVAREZ, I., FERNANDEZ, I., LORENZO, L., PAYERAS, L., CUERVO, M. & GOYACHE, F. 2012b. Founder and present maternal diversity in two endangered Spanish horse breeds assessed via pedigree and mitochondrial DNA information. *Journal of Animal Breeding and Genetics*, 129, 271-279.

ALVAREZ, I., TRAORE, A., KABORE, A., ZARE, Y., FERNANDEZ, I., TAMBOURA, H. H. & GOYACHE, F. 2012c. Microsatellite analysis of the Rousse de Maradi (Red Sokoto) goat of Burkina Faso. *Small Ruminant Research*, 105.

BALSEIRO, A., ROYO, L. J., PEREZ MARTINEZ, C., FERNANDEZ DE MERA, I. G., HOEFLE, U., POLLEDO, L., MARREROS, N., CASAIS, R. & GARCIA MARIN, J. F. 2012. Louping Ill in Goats, Spain, 2011. *Emerging Infectious Diseases*, 18, 976-978.

BOZZI, R., ALVAREZ, I., CROVETTI, A., FERNANDEZ, I., DE PETRIS, D. & GOYACHE, F. 2012. Assessing priorities for conservation in Tuscan cattle breeds using microsatellites. *Animal*, 6.

CAAMAÑO, J. N., CUADRADO, F., DIEZ, C., MUÑOZ, M., MARTIN, D., CARROCERA, S. & GOMEZ, E. 2012. 262 meiotic spindle conformation assessment by polarized light microscopy in sheep and goat oocytes. *Reproduction, fertility, and development*, 25, 279-279.

CARTA, T., MARTIN-HERNANDO, M. P., BOADELLA, M., FERNANDEZ-DE-MERA, I. G., BALSEIRO, A., SEVILLA, I. A., VICENTE, J., MAIO, E., VIEIRA-PINTO, M., ALVAREZ, J., PEREZ-DE-LA-LASTRA, J. M., GARRIDO, J. & GORTAZAR, C. 2012. No evidence that wild red deer (*Cervus elaphus*) on the Iberian Peninsula are a reservoir of *Mycobacterium avium* subspecies paratuberculosis infection. *Veterinary Journal*, 192, 544-546.

CIORDIA, M., FEITO, I., PEREIRA-LORENZO, S., FERNANDEZ, A. & MAJADA, J. 2012. Adaptive diversity in *Castanea sativa* Mill. half-sib progenies in response to drought stress. *Environmental and Experimental Botany*, 78, 56-63.

CORREIA, E., GOMEZ, E., CAAMAÑO, J. N., DIEZ, C., BALSEIRO, A., MARTIN, D., CARROCERA, S., TRIGAL, B. & MUÑOZ, M. 2012. 120 expression of tumor necrosis factor (tnf) and its receptor tnfr2 in bovine endometrium and embryos during the early development. *Reproduction, fertility, and development*, 25, 207-207.

DEL COZ, J. J., DIEZ, J., BAHAMONDE, A. & GOYACHE, F. 2012. Learning data structure from classes: A case study applied to population genetics. *Information Sciences*, 193, 22-35.

DIEZ, C., MUÑOZ, M., CAAMAÑO, J. N. & GOMEZ, E. 2012a. Cryopreservation of the Bovine Oocyte: Current Status and Perspectives. *Reproduction in Domestic Animals*, 47, 76-83.

DIEZ, C., TRIGAL, B., CAAMAÑO, J. N., MUÑOZ, M., CORREIA, E., MARTIN, D., CARROCERA, S., PRIBENSZKY, C. & GOMEZ, E. 2012b. 63 quality of bovine embryos produced in vitro from immature oocytes treated with a sublethal hydrostatic pressure. *Reproduction, fertility, and development*, 25, 179-179.

FERREIRA, J. J., DEL CASTILLO, R. R., PEREZ-VEGA, E., PLANS, M., SIMO, J. & CASANAS, F. 2012. Sensory changes related to breeding for plant architecture and resistance to viruses and anthracnose in bean market class Fabada (*Phaseolus vulgaris* L.). *Euphytica*, 186, 687-696.

GOMEZ, E., CORREIA, E., CAAMAÑO, J. N., DIEZ, C., TRIGAL, B., MORENO, F. J., MARTIN, D., CARROCERA, S., PELLO-PALMA, J., GUTIERREZ, M. D. & MUÑOZ, M. 2012a. Hexose changes in the bovine uterus in response to early male and female embryos. *Reproduction in Domestic Animals*, 47.

GOMEZ, E., DIEZ, C., CAAMAÑO, J., CORRALES, F., TRIGAL, B., MORENO, J., MARTIN, D., MORA, M., CARROCERA, S. & MUÑOZ, M. 2012b. A dimorphic response to early male and female embryos in the bovine uterus. *Reproduction Fertility and Development*, 24, 152-152.

GOMEZ, E., DIEZ, C., TRIGAL, B., MUÑOZ, M., GOYACHE, F., CORREIA, E., CARROCERA, S., MARTIN, D. & CAAMAÑO, J. N. 2012c. 111 functional and molecular genital asymmetry in the cow. *Reproduction, fertility, and development*, 25, 203-203.

GONZALEZ, A. J., FERNANDEZ, A. M., SAN JOSE, M., GONZALEZ-VARELA, G. & ROSARIO RODICIO, M. 2012. A *Pseudomonas viridiflava*-Related Bacterium Causes a Dark-Reddish Spot Disease in *Glycine max*. *Applied and Environmental Microbiology*, 78.

JOSE FERREIRA, J., CAMPA, A., PEREZ-VEGA, E., RODRIGUEZ-SUAREZ, C. & GIRALDEZ, R. 2012. Introgression and pyramiding into common bean market class fabada of genes conferring resistance to anthracnose and potyvirus. *Theoretical and Applied Genetics*, 124.

MARTINEZ-ALONSO, C., KIDELMAN, A., FEITO, I., VELASCO, T., ALIA, R., GASPAR, M. J. & MAJADA, J. 2012. Optimization of seasonality and mother plant nutrition for vegetative propagation of *Pinus pinaster* Ait. *New Forests*, 43, 651-663.

MARUOTTI, J., MUÑOZ, M., DEGRELLE, S. A., GOMEZ, E., LOUET, C., DIEZ MONFORTE, C., DE LONGCHAMP, P. H., BROCHARD, V., HUE, I., NESTOR CAAMAÑO, J. & JOUNEAU, A. 2012. Efficient derivation of bovine embryonic stem cells needs more than active core pluripotency factors. *Molecular Reproduction and Development*, 79.

MILLAN, J., CASAIS, R., DELIBES-MATEOS, M., CALVETE, C., ROUCO, C., CASTRO, F., COLOMAR, V., CASAS-DIAZ, E., RAMIREZ, E., MORENO, S., PRIETO, J. M. & VILLAFUERTE, R. 2012a. Widespread exposure to *Sarcoptes scabiei* in wild European rabbits (*Oryctolagus cuniculus*) in Spain. *Veterinary Parasitology*, 183.

MILLAN, J., SOBRINO, R., RODRIGUEZ, A., OLEAGA, A., GORTAZAR, C. & SCHARES, G. 2012b. Large-scale serosurvey of *Besnoitia besnoiti* in free-living carnivores in Spain. *Veterinary Parasitology*, 190, 241-245

MIÑARRO, M. 2012. Weed communities in apple orchards under organic and conventional fertilization and tree-row management. *Crop Protection*, 39.

MORENO-GONZALO, J., FERRE, I., CELAYA, R., FRUTOS, P., FERREIRA, L. M. M., HERVAS, G., GARCIA, U., ORTEGA-MORA, L. M. & OSORO, K. 2012. Potential use of heather to control gastrointestinal nematodes in goats. *Small Ruminant Research*, 103, 60-68.

MUÑOZ, M., CORRALES, F. J., CAAMAÑO, J. N., DIEZ, C., TRIGAL, B., MORA, M. I., MARTIN, D., CARROCERA, S. & GOMEZ, E. 2012. Proteome of the Early Embryo-Maternal Dialogue in the Cattle Uterus. *Journal of Proteome Research*, 11.

MUÑOZ MENDOZA, M., DE JUAN, L., MENENDEZ, S., OCAMPO, A., MOURELO, J., SAEZ, J. L., DOMINGUEZ, L., GORTAZAR, C., GARCIA MARIN, J. F. & BALSEIRO, A. 2012. Tuberculosis due to *Mycobacterium bovis* and *Mycobacterium caprae* in sheep. *Veterinary Journal*, 191, 267-269.

OLEAGA, A., CASAIS, R., PRIETO, J. M., GORTAZAR, C. & BALSEIRO, A. 2012. Comparative pathological and immunohistochemical features of sarcoptic mange in five sympatric wildlife species in Northern Spain. *European Journal of Wildlife Research*, 58, 997-1000.

PEREZ-VEGA, E., PASCUAL, A., CAMPA, A., GIRALDEZ, R., MIKLAS, P. N. & JOSE FERREIRA, J. 2012. Mapping quantitative trait loci conferring partial physiological resistance to white mold in the common bean RIL population Xana x Cornell 49242. *Molecular Breeding*, 29.

PUN, A., GOYACHE, F., CERVANTES, I. & GUTIERREZ, J. P. 2012. Cytoplasmic line effects for birth weight and preweaning growth traits in the Asturiana de los Valles beef cattle breed. *Livestock Science*, 143, 177-183

ROSA GARCIA, R., CELAYA, R., GARCIA, U. & OSORO, K. 2012. Goat grazing, its interactions with other herbivores and biodiversity conservation issues. *Small Ruminant Research*, 107, 49-64.

SIERRA, V., FERNANDEZ-SUAREZ, V., CASTRO, P., OSORO, K., VEGA-NAREDO, I., GARCIA-MACIA, M., RODRIGUEZ-COLUNGA, P., COTO-MONTES, A. & OLIVAN, M. 2012. Identification of biomarkers of meat tenderisation and its use for early classification of Asturian beef into fast and late tenderising meat. *Journal of the science of food and agriculture*, 92.

TRABANCO, N., PEREZ-VEGA, E., CAMPA, A., RUBIALES, D. & FERREIRA, J. J. 2012. Genetic resistance to powdery mildew in common bean. *Euphytica*, 186, 875-882.

TRAORE, A., ALVAREZ, I., FERNANDEZ, I., PEREZ-PARDAL, L., KABORE, A., OUEDRAOGO-SANOU, G. M., ZARE, Y., TAMBOURA, H. H. & GOYACHE, F. 2012a. Ascertaining gene flow patterns in livestock populations of developing countries: a case study in Burkina Faso goat. *BMC genetics*, 13.

TRAORE, A., ROYO, L. J., KABORE, A., PEREZ-PARDAL, L., ALVAREZ, I., FERNANDEZ, I., SAWADOGO, L., TAMBOURA, H. H. & GOYACHE, F. 2012b. Prion protein gene polymorphism in four West African sheep populations. *Tropical Animal Health and Production*, 44, 1469-1472.

TRIGAL, B., GOMEZ, E., CAAMAÑO, J. N., MUÑOZ, M., CORREIA, E., MARTIN, D., CARROCERA, S. & DIEZ, C. 2012a. 83 improved survival to one-step rehydration of vitrified-warmed versus frozen-thawed in vitro-produced bovine blastocysts. *Reproduction, fertility, and development*, 25, 189-189.

TRIGAL, B., GOMEZ, E., CAAMAÑO, J. N., MUÑOZ, M., MORENO, J., CARROCERA, S., MARTIN, D. & DIEZ, C. 2012b. In vitro and in vivo quality of bovine embryos in vitro produced with sex-sorted sperm. *Theriogenology*, 78.

TRIGAL, B., GOMEZ, E., DIEZ, C., CAAMAÑO, J. N., MUÑOZ, M., MORENO, J. F., CARROCERA, S., MARTIN, D., GOYACHE, F. & ALVAREZ, I. 2012c. Comparative study of PCR-sexing procedures using bovine embryos fertilized with sex-sorted spermatozoa. *Spanish Journal of Agricultural Research*, 10.

VELASCO-CONDE, T., YAKOVLEV, I., PEDRO MAJADA, J., ARANDA, I. & JOHNSEN, O. 2012. Dehydrins in maritime pine (*Pinus pinaster*) and their expression related to drought stress response. *Tree Genetics & Genomes*, 8, 957-973.

AÑO 2013

ALVAREZ, I., CAPOTE, J., TRAORE, A., FONSECA, N., PEREZ, K., CUERVO, M., FERNANDEZ, I. & GOYACHE, F. 2013a. Mitochondrial analysis sheds light on the origin of hair sheep. *Animal Genetics*, 44, 344-347.

ALVAREZ, I., FERNANDEZ, I., CUERVO, M., MARTIN, D., LORENZO, L. & GOYACHE, F. 2013b. Short communication. Mitochondrial DNA diversity of the founder populations of the Asturcon pony. *Spanish Journal of Agricultural Research*, 11, 702-707.

BALSEIRO, A., GONZALEZ-QUIROS, P., RODRIGUEZ, O., COPANO, M., MEREDIZ, I., DE JUAN, L., CHAMBERS, M., DELAHAY, R., MARREROS, N., ROYO, L., BEZOS, J., PRIETO, J. & GORTAZAR, C. 2013a. Spatial relationships between Eurasian badgers (*Meles meles*) and cattle infected with *Mycobacterium bovis* in Northern Spain. *Veterinary Journal*, 197, 739-745.

BALSEIRO, A., OLEAGA, A., POLLEDO, L., ADURIZ, G., ATXAERANDIO, R., KORTABARRIA, N. & MARIN, J. 2013b. *Clostridium sordellii* in a Brown Bear (*Ursus arctos*) from Spain. *Journal of Wildlife Diseases*, 49, 1047-1051.

BALSEIRO, A., ROYO, L., PEREZ, C., COPANO, M., RUBIO, T., HOFLE, U., PRIETO, M. & MARIN, J. 2013c. LOUPING ILL IN GOATS IN NORTHERN SPAIN: MORE THAN A FORGOTTEN DISEASE. *Journal of Comparative Pathology*, 148, 51-51.

CAAMAÑO, J. N., CUADRADO, F., DIEZ, C., MUÑOZ, M., MARTIN, D., CARROCERA, S. & GOMEZ, E. 2013a. MEIOTIC SPINDLE CONFORMATION ASSESSMENT BY POLARIZED LIGHT MICROSCOPY IN SHEEP AND GOAT OOCYTES. *Reproduction Fertility and Development*, 25, 279-279.

CAAMAÑO, J. N., DIEZ, C., TRIGAL, B., MUÑOZ, M., MORATO, R., MARTIN, D., CARROCERA, S., MOGAS, T. & GOMEZ, E. 2013b. Assessment of Meiotic Spindle Configuration and Post-Warming Bovine Oocyte Viability Using Polarized Light Microscopy. *Reproduction in Domestic Animals*, 48, 470-476.

CASANAS, F., PEREZ-VEGA, E., ALMIRALL, A., PLANS, M., SABATE, J. & FERREIRA, J. 2013. Mapping of QTL associated with seed chemical content in a RIL population of common bean (*Phaseolus vulgaris* L.). *Euphytica*, 192, 279-288.

CLIMENT, J., DANTAS, A., ALIA, R. & MAJADA, J. 2013. Clonal variation for shoot ontogenetic heteroblasty in maritime pine (*Pinus pinaster* Ait.). *Trees-Structure and Function*, 27, 1813-1819.

CORREIA, E., GOMEZ, E., CAAMANO, J. N., DIEZ, C., BALSEIRO, A., MARTIN, D., CARROCERA, S., TRIGAL, B. & MUNOZ, M. 2013. Expression of tumor necrosis factor (tnf) and its receptor tnfr2 in bovine endometrium and embryos during the early development. *Reproduction Fertility and Development*, 25, 207-207.

DEL RIVERO, J., MONTANES-ROCES, E., DE LA ROZA-DELGADO, B., SOLDADO, A., LUACES, O., QUEVEDO, J. & BAHAMONDE, A. 2013. Feature selection for classification of animal feed ingredients from near infrared microscopy spectra. *Information Sciences*, 241, 58-69.

DIAZ LLORENTE, D., ARIAS ABRODO, P., GONZALEZ-ALVAREZ, J., DAPENA DE LA FUENTE, E., MANGAS ALONSO, J. J., GUTIERREZ ALVAREZ, M. D. & BLANCO GOMIS, D. 2013. A New Analytical Method to Volatile Compounds in Cider Apples: Application to Evaluate the Starch Index. *Food and Bioprocess Technology*, 6, 2447-2454.

DIEZ, C., TRIGAL, B., CAAMAÑO, J., MUÑOZ, M., CORREIA, E., MARTIN, D., CARROCERA, S., PRIBENSZKY, C. & GOMEZ, E. 2013. Quality of bovine embryos produced in vitro from immature oocytes treated with a sublethal hydrostatic pressure. *Reproduction Fertility and Development*, 25, 179-179.

FERENCAKOVIC, M., CURIK, I., PEREZ-PARDAL, L., ROYO, L. J., CUBRIC-CURIK, V., FERNANDEZ, I., ALVAREZ, I., KOSTELIC, A., SPREM, N., KRAPINEC, K. & GOYACHE, F. 2013. Mitochondrial DNA and Y-chromosome diversity in East Adriatic sheep. *Animal Genetics*, 44, 184-192.

GASPAR, M., VELASCO, T., FEITO, I., ALIA, R. & MAJADA, J. 2013. Genetic Variation of Drought Tolerance in *Pinus pinaster* at Three Hierarchical Levels: A Comparison of Induced Osmotic Stress and Field Testing. *Plos One*, 8.

GOMEZ, E., CAAMAÑO, J., CORRALES, F., DIEZ, C., CORREIA-ALVAREZ, E., MARTIN, D., TRIGAL, B., CARROCERA, S., MORA, M., PELLO-PALMA, J., MORENO, J. & MUÑOZ, M. 2013a. Embryonic Sex Induces Differential Expression of Proteins in Bovine Uterine Fluid. *Journal of Proteome Research*, 12, 1199-1210.

GOMEZ, E., DIEZ, C., TRIGAL, B., MUÑOZ, M., GOYACHE, F., CORREIA, E., CARROCERA, S., MARTIN, D. & CAAMAÑO, J. 2013b. FUNCTIONAL AND MOLECULAR GENITAL ASYMMETRY IN THE COW. *Reproduction Fertility and Development*, 25, 203-203.

GONZALEZ, A., CLEENWERCK, I., DE VOS, P. & FERNANDEZ-SANZ, A. 2013. *Pseudomonas asturiensis* sp nov., isolated from soybean and weeds. *Systematic and Applied Microbiology*, 36, 320-324.

GONZALEZ ALVAREZ, J., MANGAS ALONSO, J. J., DIAZ LLORENTE, D., BOTAS VELASCO, C., GUTIERREZ ALVAREZ, M. D., ARIAS ABRODO, P. & BLANCO GOMIS, D. 2013. Multivariate Characterization of Milk Fat Fractions by Gas Chromatography. *Food and Bioprocess Technology*, 6, 2651-2658.

HERRERO, B., ROYO, L., LAGO, F., VIEITES, J. & ESPINEIRA, M. 2013. Authentication of male beef by multiplex fast real-time PCR. *Food Additives and Contaminants Part a-Chemistry Analysis Control Exposure & Risk Assessment*, 30, 218-225.

MARTIN-HERNANDO, M. P., BALSEIRO, A., OLEAGA, A., GORTAZAR, C. & RUIZ-FONS, F. 2013. ENCEPHALITIS IN CANTABRIAN CHAMOIS (RUPICAPRA PYRENAICA PARVA) CAUSED BY A FLAVIVIRUS. *Journal of Comparative Pathology*, 148, 83-83.

MARTINEZ-FERNANDEZ, A., SOLDADO, A., DE LA ROZA-DELGADO, B., VICENTE, F., GONZALEZ-ARROJO, M. A. & ARGAMENTERIA, A. 2013. Modelling a quantitative ensilability index adapted to forages from wet temperate areas. *Spanish Journal of Agricultural Research*, 11, 455-462.

MORENO-SANZ, P., LUCCHETTA, G., ZANZOTTO, A., LOUREIRO, M., SUAREZ, B. & ANGELINI, E. 2013. Fungi associated to grapevine trunk diseases in young plants in Asturias (Northern Spain). *Horticultural Science*, 40, 138-144.

MUÑOZ-MENDOZA, M., MARREROS, N., BOADELLA, M., GORTAZAR, C., MENENDEZ, S., DE JUAN, L., BEZOS, J., ROMERO, B., COPANO, M., AMADO, J., SAEZ, J., MOURELO, J. & BALSEIRO, A. 2013. Wild boar tuberculosis in Iberian Atlantic Spain: a different picture from Mediterranean habitats. *Bmc Veterinary Research*, 9.

OLEAGA, A., ALASAAD, S., ROSSI, L., CASAIS, R., VICENTE, J., MAIONE, S., SORIGUER, R. & GORTAZAR, C. 2013. Genetic epidemiology of *Sarcoptes scabiei* in the Iberian wolf in Asturias, Spain. *Veterinary Parasitology*, 196, 453-459.

PEREZ-CABAL, M., LEGAZ, E., CERVANTES, I., DE LA FUENTE, L., MARTINEZ, R., GOYACHE, F. & GUTIERREZ, J. 2013. Association between body and udder morphological traits and dairy performance in Spanish Assaf sheep. *Archiv Fur Tierzucht-Archives of Animal Breeding*, 56, 430-442.

PEREZ-VEGA, E., TRABANCO, N., CAMPA, A. & JOSE FERREIRA, J. 2013. Genetic mapping of two genes conferring resistance to powdery mildew in common bean (*Phaseolus vulgaris* L.). *Theoretical and Applied Genetics*, 126, 1503-1512.

PIERNA, J., SANFELIU, A., SLOWIKOWSKI, B., VON HOLST, C., MAUTE, O., HAN, L., AMATO, G., DELGADO, B., MARIN, D., LILLEY, G., DARDENNE, P. & BAETEN, V. 2013. Standardization of NIR microscopy spectra obtained from inter-laboratory studies by using a standardization cell. *Biotechnologie Agronomie Societe Et Environnement*, 17, 547-555.

RIVERA, A., FENERO, D., ALMIRALL, A., FERREIRA, J., SIMO, J., PLANS, M., DEL CASTILLO, R. & CASANAS, F. 2013. Variability in sensory attributes in common bean (*Phaseolus vulgaris* L.): a first survey in the Iberian secondary diversity center. *Genetic Resources and Crop Evolution*, 60, 1885-1898.

RODRIGUEZ MADRERA, R., GARCIA HEVIA, A. & SUAREZ VALLES, B. 2013. Comparative study of two aging systems for cider brandy making. Changes in chemical composition. *Lwt-Food Science and Technology*, 54, 513-520.

SANCHEZ DEL RIVERO, J. A., MONTANES-ROCES, E., DE LA ROZA-DELGADO, B., SOLDADO, A., LUACES, O., RAMON QUEVEDO, J. & BAHAMONDE, A. 2013. Feature selection for classification of animal feed ingredients from near infrared microscopy spectra. *Information Sciences*, 241, 58-69.

SOLDADO, A., FEARN, T., MARTINEZ-FERNANDEZ, A. & DE LA ROZA-DELGADO, B. 2013. The transfer of NIR calibrations for undried grass silage from the laboratory to on-site instruments: Comparison of two approaches. *Talanta*, 105, 8-14.

TRIGAL, B., GOMEZ, E., CAAMANO, J., MUNOZ, M., CORREIA, E., MARTIN, D., CARROCERA, S. & DIEZ, C. 2013a. Improved survival to one-step rehydration of vitrified-warmed versus frozen-thawed in vitro-produced bovine blastocysts. *Reproduction Fertility and Development*, 25, 189-189.

TRIGAL, B., MUÑOZ, M., GOMEZ, E., CAAMAÑO, J., MARTIN, D., CARROCERA, S., CASAIS, R. & DIEZ, C. 2013b. Cell Counts and Survival to Vitrification of Bovine In Vitro Produced Blastocysts Subjected to Sublethal High Hydrostatic Pressure. *Reproduction in Domestic Animals*, 48, 200-206.

AÑO 2014

ABENDANO, N., TYUKALOVA, L., BARANDIKA, J. F., BALSEIRO, A., SEVILLA, I. A., GARRIDO, J. M., JUSTE, R. A. & ALONSO-HEARN, M. 2014. Mycobacterium Avium subsp Paratuberculosis Isolates Induce In Vitro Granuloma Formation and Show Successful Survival Phenotype, Common Anti-Inflammatory and Antiapoptotic Responses within Ovine Macrophages Regardless of Genotype or Host of Origin. *Plos One*, 9.

ACEVEDO, P., GONZALEZ-QUIROS, P., PRIETO, J. M., ETHERINGTON, T. R., GORTAZAR, C. & BALSEIRO, A. 2014. Generalizing and transferring spatial models: A case study to predict Eurasian badger abundance in Atlantic Spain. *Ecological Modelling*, 275, 1-8.

ALVAREZ, I., TRAORE, A., FERNANDEZ, I., CUERVO, M., LECOMTE, T., SOUDRE, A., KABORE, A., TAMBOURA, H. H. & GOYACHE, F. 2014. Assessing introgression of Sahelian zebu genes into native Bos taurus breeds in Burkina Faso. *Molecular Biology Reports*, 41, 3745-3754.

ANTON, M., VALLES, B., HEVIA, A. & LOBO, A. 2014. Aromatic Profile of Ciders by Chemical Quantitative, Gas Chromatography-Olfactometry, and Sensory Analysis. *Journal of Food Science*, 79, S92-S99.

CAMPA, A., RODRIGUEZ-SUAREZ, C., GIRALDEZ, R. & FERREIRA, J. J. 2014. Genetic analysis of the response to eleven Colletotrichum lindemuthianum races in a RIL population of common bean (Phaseolus vulgaris L.). *Bmc Plant Biology*, 14.

CASAI, R., DALTON, K. P., MILIAN, J., BALSEIRO, A., OLEAGA, A., SOLANO, P., GOYACHE, F., MIGUEL PRIETO, J. & PARRA, F. 2014. Primary and secondary experimental infestation of rabbits (Oryctolagus cuniculus) with Sarcoptes scabiei from a wild rabbit: Factors determining resistance to reinfestation. *Veterinary Parasitology*, 203, 173-183.

COWIE, C., MARREOS, N., GORTAZAR, C., JAROSO, R., WHITE, P. & BALSEIRO, A. 2014. Shared risk factors for multiple livestock diseases: A case study of bovine tuberculosis and brucellosis. *Research in Veterinary Science*, 97, 491-497.

DE LA ROZA-DELGADO, B., SOLDADO, A., GOMES DE FARIA OLIVEIRA, A. F., MARTINEZ-FERNANDEZ, A. & ARGAMENTERIA, A. 2014. Assessing the Value of a Portable Near Infrared Spectroscopy Sensor for Predicting Pork Meat Quality Traits of "Asturcelta Autochthonous Swine Breed". *Food Analytical Methods*, 7, 151-156.

FERRANDO, A., GOYACHE, F., PARES, P., CARRION, C., MIRO, J. & JORDANA, J. 2014. Genetic relationships between six eastern Pyrenean sheep breeds assessed using microsatellites. *Spanish Journal of Agricultural Research*, 12, 1029-1037.

GOMEZ, E., CORREIA-ALVAREZ, E., CAAMANO, J. N., DIEZ, C., CARROCERA, S., PEYNOT, N., MARTIN, D., GIRAUD-DELVILLE, C., DURANTHON, V., SANDRA, O. & MUNOZ, M. 2014. Hepatoma-derived growth factor: from the bovine uterus to the in vitro embryo culture. *Reproduction (Cambridge, England)*, 148, 353-65.

GONZALEZ, A. J. & TRAPIELLO, E. 2014. *Clavibacter michiganensis* subsp *phaseoli* subsp nov., pathogenic in bean. *International Journal of Systematic and Evolutionary Microbiology*, 64, 1752-1755.

HERNANDEZ-ORTEGA, M., MARTINEZ-FERNANDEZ, A., SOLDADO, A., GONZALEZ, A., ARRIAGA-JORDAN, C., ARGAMENTERIA, A., DE LA ROZA-DELGADO, B. & VICENTE, F. 2014. Effect of total mixed ration composition and daily grazing pattern on milk production, composition and fatty acids profile of dairy cows. *Journal of Dairy Research*, 81, 471-478.

HUMBLLOT, P., RIZOS, D. & DIEZ, C. 2014. The early embryo; a sensitive target to nutritional stress. *Reproduction in Domestic Animals*, 49, 38-38.

IBAÑEZ, B., CERVANTES, I., GUTIERREZ, J., GOYACHE, F. & MORENO, E. 2014. Estimates of direct and indirect effects for early juvenile survival in captive populations maintained for conservation purposes: the case of Cuvier's gazelle. *Ecology and Evolution*, 4, 4117-4129.

JOSE ANTON, M., SUAREZ VALLES, B., GARCIA HEVIA, A. & PICINELLI LOBO, A. 2014. Aromatic Profile of Ciders by Chemical Quantitative, Gas Chromatography-Olfactometry, and Sensory Analysis. *Journal of Food Science*, 79, S92-S99.

MARQUEZ, I., GARCIA-VAZQUEZ, E. & BORRELL, Y. J. 2014. Possible effects of vaccination and environmental changes on the presence of disease in northern Spanish fish farms. *Aquaculture*, 431, 118-123.

MONFORTE, C., GOMEZ, E., MUNOZ, M., CAAMANO, J., HUMBLLOT, P. & RIZOS, D. 2014. Embryo developmental plasticity to culture conditions. *Reproduction in Domestic Animals*, 49, 38-38.

MUÑOZ, M., UYAR, A., CORREIA, E., DIEZ, C., FERNANDEZ-GONZALEZ, A., CAAMAÑO, J. N., MARTINEZ-BELLO, D., TRIGAL, B., HUMBLLOT, P., PONSART, C., GUYADER-JOLY, C., CARROCERA, S., MARTIN, D., LE GUIENNE, B. M., SELI, E. & GOMEZ, E. 2014a. Prediction of pregnancy viability in bovine in vitro-produced embryos and recipient plasma with Fourier transform infrared spectroscopy. *Journal of Dairy Science*, 97, 5497-5507.

MUÑOZ, M., UYAR, A., CORREIA, E., DIEZ, C., FERNANDEZ-GONZALEZ, A., NESTOR CAAMAÑO, J., TRIGAL, B., CARROCERA, S., SELI, E. & GOMEZ, E. 2014b. Non-invasive assessment of embryonic sex in cattle by metabolic fingerprinting of in vitro culture medium. *Metabolomics*, 10, 443-451.

MUÑOZ, M., UYAR, A., CORREIA, E., PONSART, C., GUYADER-JOLY, C., MARTINEZ-BELLO, D., MARQUANT-LE GUIENNE, B., FERNANDEZ-GONZALEZ, A., DIEZ, C., CAAMAÑO, J. N., TRIGAL, B., HUMBLLOT, P., CARROCERA, S., MARTIN, D., SELI, E. & GOMEZ, E. 2014c. Metabolomic prediction of pregnancy viability in superovulated cattle embryos and recipients with fourier transform infrared spectroscopy. *BioMed research international*, 2014, 608579-608579.

PEREZ-PARDAL, L., GRIZELJ, J., TRAORE, A., CUBRIC-CURIK, V., ARSENOS, G., DOVENSKI, T., MARKOVIC, B., FERNANDEZ, I., CUERVO, M., ALVAREZ, I., BEJA-PEREIRA, A., CURIK, I. & GOYACHE, F. 2014. Lack of mitochondrial DNA structure in Balkan donkey is consistent with a quick spread of the species after domestication. *Animal Genetics*, 45, 144-147.

PRIETO, J. M., BALSEIRO, A., CASAIS, R., ABENDANO, N., FITZGERALD, L. E., GARRIDO, J. M., JUSTE, R. A. & ALONSO-HEARN, M. 2014. Sensitive and Specific Enzyme-Linked Immunosorbent Assay for Detecting Serum Antibodies against *Mycobacterium avium* subsp *paratuberculosis* in Fallow Deer. *Clinical and Vaccine Immunology*, 21, 1077-1085.

ROSA GARCIA, R., SOMOANO, A., MORENO, A., BURCKHARDT, D., LUIZ DE QUEIROZ, D. & MINARRO, M. 2014. The occurrence and abundance of two alien eucalypt psyllids in apple orchards. *Pest management science*, 70, 1676-83.

ROYO, L. J., DEL CERRO, A., VICENTE, F., CARBALLAL, A. & DE LA ROZA-DELGADO, B. 2014. An accurate high-resolution melting method to genotype bovine beta-casein. *European Food Research and Technology*, 238, 295-298.

RUIZ-FONS, F., BALSEIRO, A., WILLOUGHBY, K., OLEAGA, A., DAGLEISH, M. P., PEREZ-RAMIREZ, E., HAVLIKOVA, S., KLEMPA, B., LLORENTE, F. & PAZ MARTIN-HERNANDO, M. 2014. Clinical infection of Cantabrian chamois (*Rupicapra pyrenaica parva*) by louping ill virus: new concern for mountain ungulate conservation? *European Journal of Wildlife Research*, 60, 691-694.

TRABANCO, N., ASENSIO-MANZANERA, M. C., PEREZ-VEGA, E., IBEAS, A., CAMPA, A. & FERREIRA, J. J. 2014. Identification of quantitative trait loci involved in the response of common bean to *Pseudomonas syringae* pv. *phaseolicola*. *Molecular Breeding*, 33, 577-588.

TRIGAL, B., DIEZ, C., MUÑOZ, M., CAAMAÑO, J. N., GOYACHE, F., CORREIA-ALVAREZ, E., CORRALES, F. J., MORA, M. I., CARROCERA, S., MARTIN, D. & GOMEZ, E. 2014. Elements of functional genital asymmetry in the cow. *Reproduction Fertility and Development*, 26, 493-501.

VALLEDOR, L., ESCANDON, M., MEIJON, M., NUKARINEN, E., JESUS CANAL, M. & WECKWERTH, W. 2014. A universal protocol for the combined isolation of metabolites, DNA, long RNAs, small RNAs, and proteins from plants and microorganisms. *Plant Journal*, 79, 173-180.

BALSEIRO, A., ROYO, L., ANTONA, A. & MARIN, J. 2015. First Confirmation of Schmallenberg Virus in Cattle in Spain: Tissue Distribution and Pathology. *Transboundary and Emerging Diseases*, 62, E62-E65.

CAAMAÑO, J., GOMEZ, E., TRIGAL, B., MUÑOZ, M., CARROCERA, S., MARTIN, D. & DIEZ, C. 2015. Survival of vitrified in vitro-produced bovine embryos after a one-step warming in-straw cryoprotectant dilution procedure. *Theriogenology*, 83, 881-890.

CANAS, R., FEITO, I., FUENTE-MAQUEDA, J., AVILA, C., MAJADA, J. & CANOVAS, F. 2015. Transcriptome-wide analysis supports environmental adaptations of two *Pinus pinaster* populations from contrasting habitats. *Bmc Genomics*, 16.

COLOMINAS, L., EDWARDS, C., BEJA-PEREIRA, A., VIGNE, J., SILVA, R., CASTANYER, P., TREMOLEDA, J., SEGUI, M., PEREZ-RIPOLL, M., GOYACHE, F., HOWE, C., BARKER, G. & BOWER, M. 2015. Detecting the T1 cattle haplogroup in the Iberian Peninsula from Neolithic to medieval times: new clues to continuous cattle migration through time. *Journal of Archaeological Science*, 59, 110-117.

CORREIA-ALVAREZ, E., GOMEZ, E., MARTIN, D., CARROCERA, S., PEREZ, S., OTERO, J., PEYNOT, N., GIRAUD-DELVILLE, C., CAAMANO, J., SANDRA, O., DURANTHON, V. & MUNOZ, M. 2015a. Expression and localization of interleukin 1 beta and interleukin 1 receptor (type I) in the bovine endometrium and embryo. *Journal of Reproductive Immunology*, 110, 1-13.

CORREIA-ALVAREZ, E., GOMEZ, E., MARTIN, D., CARROCERA, S., PEREZ, S., PEYNOT, N., GIRAUD-DELVILLE, C., CAAMAÑO, J., BALSEIRO, A., SANDRA, O., DURANTHON, V. & MUÑOZ, M. 2015b. Early embryonic and endometrial regulation of tumor necrosis factor and tumor necrosis factor receptor 2 in the cattle uterus. *Theriogenology*, 83, 1028-1037.

DE LA ROZA-DELGADO, B., MODROÑO, S., VICENTE, F., MARTINEZ-FERNANDEZ, A. & SOLDADO, A. 2015. Suitability of faecal near-infrared reflectance spectroscopy (NIRS) predictions for estimating gross calorific value. *Spanish Journal of Agricultural Research*, 13.

GOMEZ, E., MARTIN, D., CARROCERA, S. & MUÑOZ, M. 2015. PGF(2)alpha levels in Day 8 blood plasma are increased by the presence of one or more embryos in the uterus. *Animal*, 9, 1355-1360.

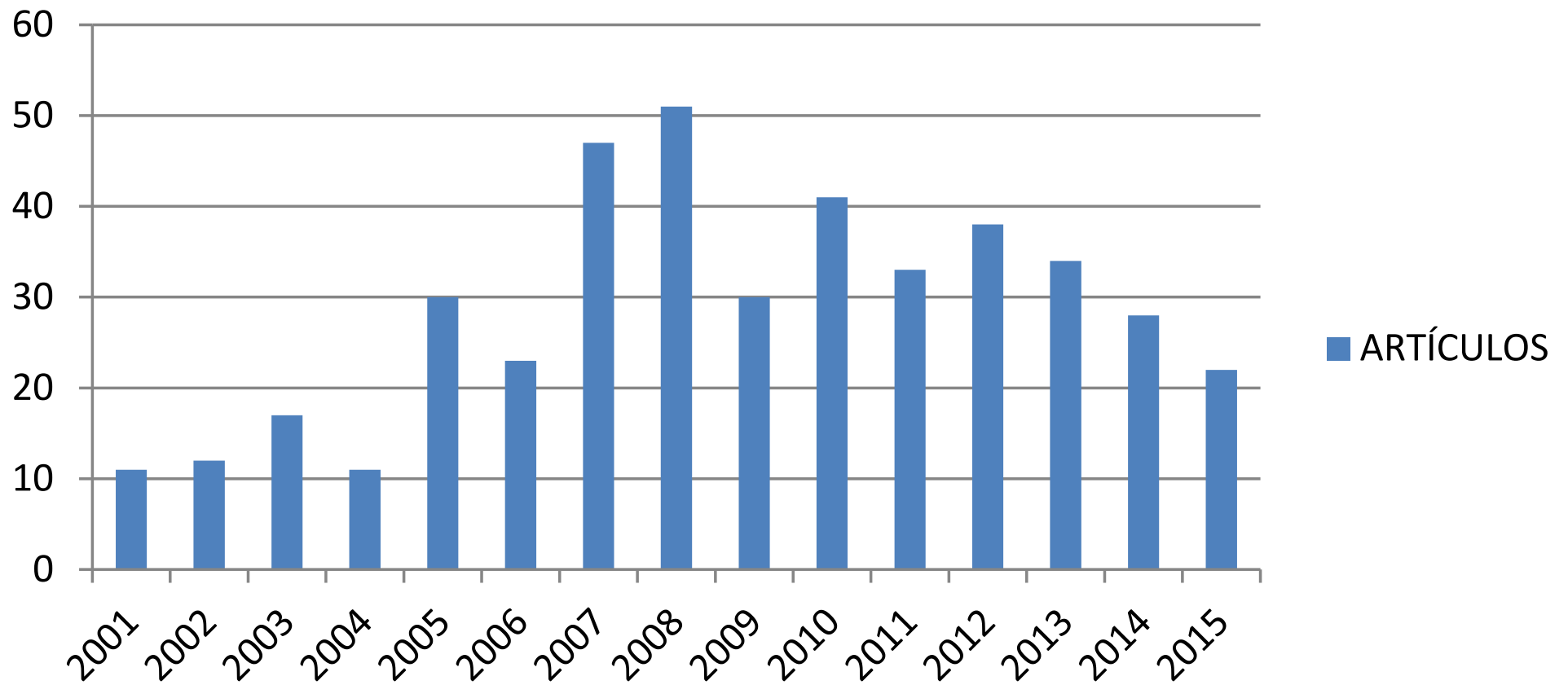
GOMEZ, E. & MUÑOZ, M. 2015. Multiple-embryo transfer for studying very early maternal-embryo interactions in cattle. *Reproduction*, 150, R35-R43.

- GONZALEZ-ARROJO, A., SOLDADO, A., VICENTE, F. & DE LA ROZA-DELGADO, B. 2015. Microwave-Assisted Methodology Feasibility for One-Step Extraction and Transmethylation of Fatty Acids in Milk for GC-Mass Spectrometry. *Food Analytical Methods*, 8, 2250-2260.
- JESUS, C., MEIJON, M., MONTEIRO, P., CORREIA, B., AMARAL, J., ESCANDON, M., CANAL, M. & PINTO, G. 2015. Salicylic acid application modulates physiological and hormonal changes in *Eucalyptus globulus* under water deficit. *Environmental and Experimental Botany*, 118, 56-66.
- LOPEZ, C., CELAYA, R., SANTOS, A., RODRIGUES, M., OSORO, K. & FERREIRA, L. 2015. Application of long-chain alcohols as faecal markers to estimate diet composition of horses and cattle fed with herbaceous and woody species. *Animal*, 9, 1786-1794.
- LOPEZ-UBEDA, R., GARCIA-VAZQUEZ, F., ROMAR, R., GADEA, J., MUNOZ, M., HUNTER, R. & COY, P. 2015. Oviductal Transcriptome Is Modified after Insemination during Spontaneous Ovulation in the Sow. *Plos One*, 10.
- MANSFIELD, K., MORALES, A., JOHNSON, N., AYLLON, N., HOFLE, U., ALBERDI, P., DE MERA, I., MARIN, J., GORTAZAR, C., DE LA FUENTE, J. & FOOKS, A. 2015. Identification and characterization of a novel tick-borne flavivirus subtype in goats (*Capra hircus*) in Spain. *Journal of General Virology*, 96, 1676-1681.
- MENENDEZ, J., ALVAREZ, I., FERNANDEZ, I., DE LA ROZA, B. & GOYACHE, F. 2015. Multiple paternity in domestic pigs under equally probable natural matings - a case study in the endangered Gochu Asturcelta pig breed. *Archiv Fur Tierzucht-Archives of Animal Breeding*, 58, 217-220.
- MUÑOZ, M., PENAROSSA, G., CAAMAÑO, J., DIEZ, C., BREVINI, T. & GOMEZ, E. 2015. Research with parthenogenetic stem cells will help decide whether a safer clinical use is possible. *Journal of Tissue Engineering and Regenerative Medicine*, 9, 325-331.
- OLEAGA, A., VICENTE, J., FERROGLIO, E., DE MACEDO, M., CASAIS, R., DEL CERRO, A., ESPI, A., GARCIA, E. & GORTAZAR, C. 2015. Concomitance and interactions of pathogens in the Iberian wolf (*Canis lupus*). *Research in Veterinary Science*, 101, 22-27.
- PELAYO, R., VALERA, M., MOLINA, A. & ROYO, L. 2015. Contribution of Lidia cattle breed historical castes to the paternal genetic stock of Spain. *Animal Genetics*, 46, 312-315.
- RUBIO-GONZALEZ, A., POTES, Y., ILLAN-RODRIGUEZ, D., VEGA-NAREDO, I., SIERRA, V., CABALLERO, B., FABREGA, E., VELARDE, A., DALMAU, A., OLIVAN, M. & COTO-MONTES, A. 2015. Effect of animal mixing as a stressor on biomarkers of autophagy and oxidative stress during pig muscle maturation. *Animal*, 9, 1188-1194.
- TRABANCO, N., CAMPA, A. & FERREIRA, J. 2015. Identification of a New Chromosomal Region Involved in the Genetic Control of Resistance to Anthracnose in Common Bean. *Plant Genome*, 8.

TRAORE, A., KOUDANDE, D., FERNANDEZ, I., SOUDRE, A., GRANDA, V., ALVAREZ, I., DIARRA, S., DIARRA, F., KABORE, A., SANOU, M., TAMBOURA, H. & GOYACHE, F. 2015. Geographical assessment of body measurements and qualitative traits in West African cattle. *Tropical Animal Health and Production*, 47, 1505-1513.

VALLEDOR, L., PASCUAL, J., MEIJON, M., ESCANDON, M. & CANAL, M. 2015. Conserved Epigenetic Mechanisms Could Play a Key Role in Regulation of Photosynthesis and Development-Related Genes during Needle Development of *Pinus radiata*. *Plos One*, 10.

ARTÍCULOS



LISTADO ALFABÉTICO DE REVISTAS

A)

Acta Alimentaria

Acta Theriologica

Acta Veterinaria Hungarica

African Journal of Business Management,

Agricultural and Forest Meteorology

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American Journal of Enology and Viticulture

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Journal of Chromatography A

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Journal of Fish Diseases

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Journal of Reproductive Immunology

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