

Publicacions 2014

- ✓ AIT-SAIDI A., CAJA G., SALAMA A.A.K., MILÁN M.J. 2014. Implementing electronic identification for performance recording in sheep: II. Cost-benefit analysis in meat and dairy farms. *J. Dairy Sci.* 97:7515–7524
- ✓ AIT-SAIDI A., CAJA G., SALAMA A.A.K., CARNÉ S. 2014. Implementing electronic identification for performance recording in sheep: I. Manual versus semiautomatic and automatic recording systems in dairy and meat farms. *J. Dairy Sci.* 97:7505–7514
- ✓ A. RIBERA, V. HAURIGOT, M. GARCIA, S. MARCÓ, S. MOTAS, P. VILLACAMPA, L. MAGGIONI, X. LEÓN, M. MOLAS, V. SÁNCHEZ, S. MUÑOZ, C. LEBORGNE, X. MOLL, M. PUMAROLA, F. MINGOZZI, J. RUBERTE, S. AÑOR AND F. BOSCH. Biochemical, histological and functional correction of mucopolysaccharidosis type IIIB by intra-cerebrospinal fluid gene therapy INTRA. *Human Molecular Genetics* (2014) Dec 18. pii: ddu727
- ✓ CAMINAL M, FONSECA C, PERIS D, MOLL X, RABANAL RM, BARRACHINA J, CODINA D, GARCÍA F, CAIRÓ JJ, GÒDIA F, PLA A, VIVES J. "Use of a chronic model of articular cartilage and meniscal injury for the assessment of long-term effects after autologous mesenchymal stromal cell treatment in sheep." *N Biotechnol.* 2014 Sep 25;31(5):492-8. doi: 10.1016/j.nbt.2014.07.004. Epub 2014 Jul 22.
- ✓ CAMINAL M, MOLL X, CODINA D, RABANAL RM, MORIST A, BARRACHINA J, GARCIA F, PLA A, VIVES J. "Transitory improvement of articular cartilage characteristics after implantation of polylactide:polyglycolic acid (PLGA) scaffolds seeded with autologous mesenchymal stromal cells in a sheep model of critical-sized chondral defect." *Biotechnol Lett.* 2014 Oct;36(10):2143-53. doi: 10.1007/s10529-014-1585-3. Epub 2014 Jun 26.
- ✓ CASAÑAS J, TORRE JDE L, SOLER F, GARCÍA F, RODELLAR C, PUMAROLA M, CLIMENT J, SOLER R, OROZCO L. "Peripheral nerve regeneration after experimental section in ovine radial and tibial nerves using synthetic nerve grafts, including expanded bone marrow mesenchymal cells: morphological and neurophysiological results." *Injury.* 2014 Oct;45 Suppl 4:S2-6. doi: 10.1016/S0020-1383(14)70003-8. Epub 2014 Nov 7.
- ✓ CASELLAS J., CAJA G. 2014. Fetal programming by co-twin rivalry in sheep. *J. Anim. Sci.* 92:64–71
- ✓ CASTRO-COSTA A., CAJA G., SALAMA A.A.K., ROVAI M., FLORES C., AGUILÓ J. 2014. Thermographic variation of the udder of dairy ewes at early-lactation and following an *E. coli* endotoxin intramammary challenge at late-lactation. *J. Dairy Sci.* 97:1377–1387
- ✓ GASSÓ Diana ; GÁLVEZ-CERÓN Arturo , LÓPEZ-OLVERA Jorge Ramón , MENTABERRE Gregorio , BARTOLOMÉ Jordi , NAVARRO-GONZÁLEZ Nora , FERNÁNDEZ-SIRERA Laura , FERNÁNDEZ-AGUILAR Xavier, MARCO Ignasi, FERRER David, ROSSI, Luca , LAVÍN, Santiago, and SERRANO Emmanuel (in press). Gastrointestinal nematodes and dietary fibre: two factors to consider when using FN for wildlife nutrition monitoring. *Ecological Indicators.*

- ✓ GHAFARILALEH, V ALI FOULADI-NASHTA, MARIA-TERESA PARAMIO. «Effect of Alfa-linolenic acid (ALA) on oocyte maturation and embryo development of prepubertal sheep oocytes» *Theriogenology* (en prensa) Stoneham (US)
- ✓ GONZALEZ G, J. F. PÉREZ, R. G. HERMES, F. MOLIST, R. JIMÉNEZ-DÍA, S M. MARTIN-ORÚE. 2014 Screening the ability of natural feed ingredients to interfere with the adherence of enterotoxigenic *Escherichia coli* (ETEC) K88 at the porcine mucosal intestine. *British Journal of Nutrition* 111, 633-642
- ✓ GUERRA-ORDAZ AA, F. MOLIST, R.G. HERMES, A. GÓMEZ DE SEGURA, R. M. LA RAGIONE, M. J. WOODWARD, M. A. TCHORZEWSKA, J. W. COLLINS, J. F. PÉREZ, S M. MARTIN-ORÚE. 2014. Effect of inclusion of lactulose and *Lactobacillus plantarum* on the intestinal environment and performance of piglets at weaning. *Animal Feed Science and Technology* 185, 160-169
- ✓ GUERRA-ORDAZ AA, GEMMA GONZÁLEZ-ORTIZ, ROBERTO LA RAGIONE, MARTIN WOODWARD, JAMES COLLINS, JOSE PEREZ, AND SUSANA MARTIN-ORUE. 2014. Lactulose and *Lactobacillus plantarum*: a potential complementary synbiotic to control post-weaning colibacillosis in piglets. *Applied and Environmental Microbiology* 80, 4879-4886
- ✓ HAMDÍ M, D. SOLÀ-ORÍOL, R. DAVIN, J.F. PÉREZ. 2015. Calcium sources and their interaction with the level of non-phytate phosphorus affect performance and bone mineralization in broiler chickens. *Poultry Science*, in Press.
- ✓ HAMMAMI S, IZQUIERDO D, CATALA MG, PARAMIO MT, MORATO R. «In vitro developmental competence of prepubertal goat oocytes cultured with recombinant activin-A » *Animal* Cambridge (GB)
- ✓ HAMMAMI¹, S D. IZQUIERDO¹, M. G. CATALÁ¹, M. T. PARAMIO¹ AND R. MORATÓ^{2†}. In vitro developmental competence of prepubertal goat oocytes cultured with recombinant activin-A. *Animal* (2014), 8:1, pp 94–101 © The Animal Consortium 2013
- ✓ LACASTA A, BALLESTER M, MONTEAGUDO PL, RODRÍGUEZ JM, SALAS ML, ACCENSI F, PINA-PEDRERO S, BENSÁID A, ARGILAGUET J, LÓPEZ-SORIA S, HUTET E, LE POTIER MF, RODRÍGUEZ F. Expression library immunization can confer protection against lethal challenge with African swine fever virus. *J Virol.* 2014 Nov;88(22):13322-32. doi: 10.1128/JVI.01893-14. Epub 2014 Sep 10.
- ✓ LOPEZ-SAUCEDO J, PARAMIO MT, FIERRO R, IZQUIERDO D, CATALÀ MG, COLOMA MA, TOLEDANO-DÍAZ A, LÓPEZ-SEBASTIÁN A, SANTIAGO-MORENO J. «Sperm characteristics and heterologous in vitro fertilisation capacity of Iberian ibex (*Capra pyrenaica*) epididymal sperm, frozen in the presence of the enzymatic antioxidant catalase *Cryobiology* » *Cryobiology*
- ✓ MADRUGA A., IRAIRA S.P., RODRÍGUEZ-PRADO M., MAINAU E., RUÍZ DE LA TORRE J.L., MANTECA X., GONZÁLEZ L.A., FERRET A. (2014). Feeding and social behavior of Simmental heifers fed concentrate and barley straw offered in a total mixed ration or in a free-choice diet. *Proc. Aust. Soc. Anim. Production* 30:391
- ✓ MADRUGA A., MAINAU E., RUÍZ DE LA TORRE J.L., MANTECA X., RODRÍGUEZ-BRAVO M., GONZÁLEZ L.A., FERRET A. (2014). Effect of using either barley straw or alfalfa hay on intake

and digestibility in growing Simmental heifers fed high-concentrate diets. *J. Anim. Sci.* 92, E-Suppl. 2:795

- ✓ MANUELIAN C.L., ALBANELL E., ROVAI M., SALAMA A.A.K., CAJA G. 2014. Effect of breed and lithium chloride dose on the conditioned aversion to olive tree leaves (*Olea europaea* L.) of sheep. *Appl. Anim. Behav. Sci.* 155 42–48
- ✓ MANUELIAN, C.L., ALBANELL, E., ROVAI, M., CAJA, G., GUITART, R.. 2014. Kinetics of lithium as a LiCl dose suitable for conditioned taste aversion in lactating goats and dry sheep. *Journal of Animal Science*. Accepted.
- ✓ MANUELIAN, C.L., ALBANELL, E., ROVAI, M., LL. GIRALT, SALAMA, A.A.K., CAJA, G. 2014. Pastoreo en viñedos en primavera utilizando ganado ovino. 53º Reunión Científica de la Sociedad Española de Estudio de Pastos, Potes (Cantabria, España). Libro de Abstracts, pp. 587-594
- ✓ MANUELIAN, C.L., ALBANELL, E., ROVAI, M., SALAMA, A.A.K. I CAJA, G. 2014. Pasturatge en oliverars, aplicació de l'aversió condicionada a l'olivera en cabres. *Quaderns Agraris*.
- ✓ MANUELIAN, C.L., ALBANELL, E., ROVAI, M., SALAMA, A.A.K. Y CAJA, G. 2014. Aversión condicionada en ganado ovino. *Albéitar*, 177:38-39 (ISSN 1699-7883).
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- ✓ MANUELIAN, C.L., ALBANELL, E., ROVAI, M., SALAMA, A.A.K., CAJA, G. 2014. Pasturatge selectiu de cultius amb petits remugants. Dossier Tècnic Núm. 68 « Alimentació d'Oví ». Ed. Direcció General d'Alimentació Qualitat i Indústries Agroalimentàries. (ISSN : 1699-5465), pp. 15-18.
- ✓ MANUELIAN, C.L., ALBANELL, E., ROVAI, M., SALAMA, A.A.K., CAJA, G., GUITART, R.. 2014 Pharmacokinetic processes of Lithium used for food aversion in sheep and goats. ADSA-ASAS-CSAS Joint Annual Meeting in Kansas City, USA. *Journal of Animal Science* Volume 92, E-Supplement 2, p930.
- ✓ MANUELIAN, C.L., ALBANELL, E., ROVAI, M., SALAMA, A.A.K., CAJA, G., GUITART, R.. 2014. Kinetics of lithium chloride excretion in conditioned averted dairy goats. EAAP Annual Meeting 2014, Copenhagen, Denmark. 65th EAAP Annual Meeting, Copenhagen, Denmark. Book of abstracts, No. 20, p. 239.
- ✓ MIRÓ J, REQUENA F, MARÍN H, JORDANA J, AGÜERA E (2014) Stallion sperm selection by density gradient centrifugation involving a double layer colloids: effects on sperm subpopulations dynamics in fresh and stored semen. *Iranian Journal of Applied Animal Science* 5,
- ✓ MIRÓ J, REQUENA F, MARÍN H, WILHELMI I. (2014) A retrospective study of semen quality of Pure Spanish Horses (PRE) and non-PRE subject to processes of sperm cryopreservation: The role of high diluted semen samples centrifugation. *Reproduction in Domestic Animals* 49, s4, 119.

- ✓ MIRÓ J, VILÉS, ANGLADA O, MARÍN H, JORDANA J, CRISCI A (2014) Color Doppler provides a reliable and rapid means of monitoring luteolysis in female donkeys. *Theriogenology*. <http://dx.doi.org/10.1016/j.theriogenology.2014.10.007>
- ✓ MOLL X, GARCÍA F, FERRER RI, SANTOS L, AGUILAR A, ANDALUZ A. "Distribution of methylene blue after injection into the epidural space of anaesthetized pregnant and non-pregnant sheep." *PLoS One*. 2014 Apr 7;9(4):e92860. doi: 10.1371/journal.pone.0092860.
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- ✓ PARAMIO MT, IZQUIERDO D. «Current status of in vitro embryo production in sheep and goats» *Reproduction in Domestic Animals* (en prensa). 0936-6768
- ✓ PUYALT M,, E. BARBA-VIDAL, S.M. MARTÍN ORÚE, JJ MALLO, L. CASTILLEJOS *Revista Avances en Tecnología Porcina* (Septiembre 2014) EVALUACIÓN DE LA EFICACIA DEL BUTIRATO SÓDICO PROTEGIDO (GUSTOR BP70) EN LA PREVENCIÓN DE LA SALMONELOSIS PORCINA
- ✓ REQUENA FD, AGÜERA EI, MIRÓ J, ESCRIBANO B, TOVAR P, PÉZ-MARÍN CC, REQUENA F (2014) Measures of the combined thickness of the uterus and placenta in pregnant Spanish Purebred mares. *Reproduction in Domestic Animals*49, S4, 99.
- ✓ REQUENA FD, AGÜERA EI, MIRÓ J, ESCRIBANO B, TOVAR P, PÉZ-MARÍN CC, REQUENA F (2014) Measures of the combined thickness of the uterus and placenta in pregnant Spanish Purebred mares. *Reproduction in Domestic Animals*49, S4, 99.
- ✓ ROURA M, CATALÁ MG, HAMMAMI S, RODRIGUEZ M, MOLL X, GARCIA F, IZQUIERDO D, PARAMIO MT. "179 intrafollicular concentration of Fatty acids in goat according to follicle diameter and age of donor." *Reprod Fertil Dev*. 2014 Dec;27(1):180-1. doi: 10.1071/RDv27n1Ab179.
- ✓ ROVAI M., CAJA G., SALAMA A.A.K., JUBERT A., LÁZARO B., LÁZARO M., LEITNER G. 2014. Identifying the major bacteria causing intramammary infections in individual milk samples of sheep and goats using traditional bacteria culturing and real-time polymerase chain reaction. *J. Dairy Sci*. 97:5393–5400
- ✓ ROVAI, M., CAJA, G., SALAMA, A.A.K., MANUELIAN, C.L., SUCH, X., CERVINO, M., LEITNER, G. 2014 Antibiotic dry-off therapy for intramammary infections in dairy sheep and goats. *ADSA-ASAS-CSAS Joint Annual Meeting in Kansas City, USA. Journal of Dairy Science* Volume 97, E-Supplement 1, p.421
- ✓ SARI M., FERRET A., CALSAMIGLIA S. (2014). Effect of pH and non-forage fiber sources on microbial fermentation and nutrient flow from a dual-flow continuous culture system. *Animal Feed Science and Technology*, in press.
- ✓ VILARRASA E, A. TRES, L. BAYÉS-GARCÍA, T. PARELLA, E. ESTEVE-GARCIA & A. C. BARROETA. Re-esterified Palm Oils, Compared to Native Palm Oil, do not Alter Fat Absorption, Postprandial Lipemia or Growth Performance in Broiler Chicks. *Revista: Lipids*.

- ✓ YESTE M, ESTRADA E, ROCHA L.G, MARÍN H, RODRÍGUEZ-GIL JE, MIRÓ J. (2014) Cryotolerance of stallion spermatozoa is related to ROS production and mitochondrial membrane potential rather than to integrity of sperm nucleus. *Andrology*. doi 10.1111/andr.291.
- ✓ YESTE M, ESTRADA E, RODRÍGUEZ-GIL JE, MIRÓ J (2014) Differences in ROS levels between good and poor freezability stallion ejaculates. *Reproduction in Domestic Animals*, 49, S3, 101.
- ✓

CONGRESOS INTERNACIONALS (PRESENTACIÓN ORAL Y POSTERS):

- ✓ BARBA-VIDAL E, CASTILLEJOS L, BUTTOW ROLL VF, MALLO JJ , MARTÍN-ORÚE SM (PÓSTER): Eficacia de un nuevo probiótico *Bifidobacterium longum* subsp. *infantis* CECT 7210 sobre la salud de lechones al destete inoculados oralmente con *Salmonella Typhimurium*. Barba-Vidal E, PRESENTACIÓN ORAL: Evaluation of the efficacy of *Bacillus Licheniformis* or Sodium Butyrate in front of *Salmonella Typhimurium* in piglets.
- ✓ BARBA-VIDAL E, CASTILLEJOS L, BUTTOW ROLL VF, MALLO JJ , MARTÍN-ORÚE SM (PRESENTACIÓN ORAL): Evaluation of the efficacy of *Bacillus licheniformis* or sodium butyrate in front of *Salmonella Typhimurium* in piglets.
- ✓ M SIBILA, M NOFRARÍAS, S LÓPEZ-SORIA, J MARCA, S CAMPOY, M LLAGOSTERA, I BADIOLA, V ARAGON. Heterologous protection of a Δfur *P. multocida* bacterin in a co-infection with *M. hyopneumoniae* and *P. multocida*. **Poster n° 26.523rd** Congress of International Pig Veterinary Society (IPVS), June 8 to 11, 2014. Cancun, Mexico
- ✓ PICCINI ROLL A, E. VILARRASA Y A.C. BARROETA (POSTER) Título: Combinação de glicerol com ácidos graxos livres de óleo de palma na dieta de frangos de corte. Congreso: XIII Seminário Técnico Científico de Aves e Suínos - AveSui 2014. Florianópolis (Brasil). Mayo 2014 Castillejos L, Buttow Roll VF, Rivero M, Moreno JA, Martín-Orúe SM
- ✓ PICCINI ROLL A, E. VILARRASA Y A.C. BARROETA.(POSTER) Título: Proporções de mono- e digliceridos e ácidos graxos livres de óleo de palma na dieta de frangos de corte. Congreso: XIII Seminário Técnico Científico de Aves e Suínos - AveSui 2014. Florianópolis (Brasil). Mayo 2014
- ✓ ROLL VICTOR F. B., EMILI BARBA-VIDAL, XAVIER MANTECA, LORENA CASTILLEJOS, SUSANA M. MARTÍN-ORÚE (PRESENTACIÓN ORAL): Comportamento de leitões desafiados com *Salmonella* e suplementados com probiótico ou promotor fisiológico.
- ✓ ROLL VICTOR F.B., EMILI BARBA VIDAL, EDGAR GARCIA MANZANILLA, JOSÉ FRANCISCO PÉREZ, SUSANA M. MARTIN-ORÚE (PÓSTER): SANGUINEOS EM LEITÕES DESAFIADOS COM SALMONELLA E SUPLEMENTADOS COM PROBIÓTICOS.
- ✓ ROLL. VICTOR F. B., EMILI BARBA-VIDAL, XAVIER MANTECA, LORENA CASTILLEJOS, SUSANA M. MARTÍN-ORÚE (PÓSTER): Behavior of pigs infected with *Salmonella* and fed diets containing a probiotic or a physiological promoter AVESUI – Florianópolis
- ✓ VILARRASA E, A.C. BARROETA Y E. ESTEVE-GARCIA (POSTER) Título: Use of esterified palm acid oils with different acylglycerol structure in weaning piglet diets Congreso: 65th Annual Meeting of the European Federation of Animal Science - EAAP 2014. Copenhagen (Dinamarca). Agosto 2014

- ✓ VILARRASA E, A.C. BARROETA Y E. ESTEVE-GARCIA.(PRESENTACIÓN ORAL) Use of esterified palm acid oils with different acylglycerol structure in fattening pig diets. Congreso: 65th Annual Meeting of the European Federation of Animal Science - EAAP 2014. Copenhagen (Dinamarca). Agosto 2014

✓

TESIS DOCTORALS:

Títol: Evaluación del uso de aceites ácidos esterificados en dietas para perros

Doctorand: Victor Fragua Fernandez

Codirecció: C. Villaverde y Ana C. Barroeta

Data de Lectura: Juny de 2014

Títol: In vitro embryo production from prepubertal goat oocytes in different culture media

Doctorand: Sondes Hammami

Direcció: D.Izquierdo

Data lectura: Juliol 2014

Títol: Conditioned aversion to woody crops in small ruminants

Doctorand: Manuelian C.L

Codirecció: E .Albanell i G.Caja

Data de lectura: Octubre 2014

Títol: Aplicación de la termografía de infrarrojos y sensores de pH y temperatura en pequeños rumiantes.

Doctorand: Castro-Costa A.

Direcció: G. Caja

Data lectura: Març 2014

Títol: Implementing electronic identification for performance recording in sheep and goat farms

Doctorand: Ait-Saidi A.

Direcció: G. Caja

Data lectura: Setembre 2014

Títol: Heat stress responses in dairy goats and effects of some nutritional strategies for mitigation.

Doctorand: Hamzaoui S.

Codirecció: A.A.K. Salama y G. Caja

Data lectura: Novembre 2014

Títol: Oocyte maturation and Embryo development in sheep: effect of Biomolecules, Polyunsaturated Fatty acids and Hyaluronan

Doctorand: Vahid Ghararilaleh

Codirecció: Maria Teresa Paramio y Ali Fouladi-Nashta

Data lectura: Octubre 2014

Títol: Exploring the Zn deficiency hypothesis to explain the beneficial effect of therapeutic ZnO in weaning pigs.

Doctorand: Roger Davín Cardona

Direcció: J.F. Pérez

Data lectura: Juny 2014

Títol: Estudio de la inflamación endometrial post-inseminación con semen congelado en la burra catalana y posibilidades de control

Doctorand: Karina Vilés López.

Direcció: J. Miró

Data lectura: Gener 2014.

Títol: "Opcions a l'engreix de vedells de raça Bruna en base a les característiques de la qualitat de la carn".

Doctorand: Jaume Casas Canal

Direcció: Alfred Ferret Quesada.

Títol: "Lactational effects of shearing strategies (unshorn, shorn open and shorn pregnant) in dairy sheep".

Doctorand: Laia Cordón Vila

Codirecció: Gerardo Caja López i Ahmed Salama.

Títol: "Effect of feeding acid oils, reesterified acid oils and glycerol on the broiler meat fatty acid composition and on the fatty acid distribution in the triacylglycerols"

Doctorand: Julieta Andriasyan

Codirecció: Rafael Codony Salcedo (UB) i Ana Cristina Barroeta Lajusticia

Títol: "Detection and location of receptors activated by the oral administration of lithium chloride for conditioned taste aversion in sheep".

Doctorand: Katariina Helena Vara

Codirecció: Gerardo Caja López, Ahmed Salama, i Juan Llor (University of Illinois)

Títol: "Cryotolerance of stallion spermatozoa is related to ROS production and mitochondrial membrane potential rather than to the integrity of sperm nucleus".

Doctorand: Henar Marín Estruch

Direcció: Jordi Miró Roig

Títol: "Inducción y Sincronización de celos en burras".

Doctorand: Itziar Wilhelmi Vilarasa

Direcció: Jordi Miró Roig

Títol: "Senecio pterophorus from invasive populations do not grow more nor produce less defenses than native individuals".

Doctorand: Maria Riera Turró

Codirecció: Eva Castells i Jordi Martínez Vilalta