

Maria Dolores Ruiz-Diaz

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Education

2014 – Present (submission 6th of August, Viva to be held the 5th of November): **Doctor of Philosophy (PhD)**. University of Nottingham, United Kingdom. Department of Veterinary Medicine and Science. Full scholarship Vice-Chancellor achievement.

Thesis title: Molecular and cellular effects of gestational diet on the developing bovine reproductive and immune systems. Supervisors: Associate Prof Catrin Rutland and Prof Nigel Mongan

Projects / Experiments:

- Investigating the effects of maternal low protein diet during gestation on the development of bovine reproductive and immune systems.
- Processing and sectioning of samples for carrying out histology staining, immunohistochemistry and immunofluorescence. RNA extraction, RNA Next Generation Sequencing, cDNA synthesis and RT-qPCR and standard PCR. Extraction of fatty acids, anatomy and dissection. I also undertook regular meeting and conference presentations, wrote publication manuscripts and organized laboratory training sessions.

2010 – 2011: **Master of Science** in Animal Health and Food Safety. University of Las Palmas de Gran Canaria, Spain.

2003 – 2009: **Bachelor honours degree in Veterinary Medicine and Science**. University of Las Palmas de Gran Canaria, Spain.

Employment – Teaching and Research

2014 – Present: **Demonstrator**. University of Nottingham, United Kingdom

- Co-supervising undergraduate project students. Undertaking practical teaching for veterinary medicine undergraduate students. Teaching PhD students new techniques.

2013 – 2014: **Research Associate**. University of Nottingham, United Kingdom

- Designing experiments and undertaking tissue sectioning, histological techniques, microscopy, stereology and cell counts. Producing written reports and data analysis.

2008 – 2010: **Research Assistant**. University of Las Palmas de Gran Canaria, Spain

- Handling small ruminants and collecting samples from alive animals. Performing ELISA, microbiology, chitotriosidase test, complement fixation test and chemical and physical analysis of milk and meat.

Jan 2008 – Jul 2008: **Research Assistant**. University of Las Palmas de Gran Canaria, Spain

- Undertaking collection and analysis of goat's sperm, artificial insemination and ultrasonography.

Employment – General

Feb 2013 – Oct 2013: **Meat Hygiene Inspector**. 2 sisters poultry plant, Scunthorpe. United Kingdom

- The main tasks involved assessment of ante – mortem chicken welfare and inspection of carcass post – mortem

April 2011: **Laboratory technician (food and water analysis laboratory) (Master placement)**. Labrovet S.L. Gran Canaria, Spain

- Carrying out preparation of medium to grow *Salmonella* and *Listeria*, spreading of food samples in the mediums and analysing the microbial results.

IT and language skills

- Extensive knowledge of Microsoft programs (Excel, Power Point and Word)
- Experienced in the use of advanced Internet search engines
- Ability to produce literature searches using databases such as PubMed
- Ability to map genes using Cytoscape (Genemania)
- Extensive knowledge using imaging software Image – Pro
- Extensive use of statistics programs such as GenStat and SPSS
- Fluent in English. IELTS level 7 and PhD completed in English
- Spanish (mother tongue)

Achievements

- Society for reproduction and fertility travel grant awarded to attend Fertility 2018 conference.
- Prize winner for best presentation at the University of Nottingham postgraduate symposium in May 2017.
- Society for reproduction and fertility travel grant awarded to attend the 21st Annual European Society for Domestic Animal Reproduction (ESDAR) Conference.
- Vice-Chancellor's Scholarship for Research Excellence 2014.

Publications

- Valentina Kubale, Keshia Merry, Georgia Miller, **Maria Ruiz Diaz** and Catrin Sian Rutland. Avian Cardiovascular Disease Characteristics, Causes and Genomics. Accepted book chapter in the book Genetics and Genomics of Poultry. 2018.
- Copping, K. J., **Ruiz-Diaz, M. D.**, Rutland, C. S., Mongan, N. P., Callaghan, M. J., Mcmillen, I. C., Rodgers, R. J. & Perry, V. E. A. "Peri-conception and first trimester diet modifies reproductive development in bulls". Reproduction, Fertility and Development, 30, 703-720. **(Joint first authorship)**. 2018.
- **Ruiz-Diaz M. D.**, Partridge H., Davidson F., Mongan N., Gardner D., Rutland C. "Parental protein malnutrition programmes of offspring growth and vasculature to increase risk of cardiovascular, pancreatic, and metabolic disease. Lessons learned from animal studies". *EMJ Repro Health*. 2017;3[1]:84-89. Review. 2017.
- Hernández-Castellano L.E., Torres A., Alavoine A., **Ruiz-Diaz M.D.**, Argüello A., Capote J., Castro N. "Effect of milking frequency on milk immunoglobulin concentration (IgG, IgM and IgA) and chitotriosidase activity in Majorera goats" *Small Ruminant Research*. Volume 98, issue1, pages 70-72, 2011.

- Martínez-de la Puente J., Moreno-Indias I., Morales-Delanuez A., **Ruiz-Diaz M. D.**, Hernández-Castellano L. E., Castro N., Argüello A. "Effects of feeding management and time of day on the occurrence of self-suckling in dairy goats" *Veterinary Record* 168 (14) 378. 2011.
- Sanchez-Macias, D., Moreno-Indias, I., Hernandez-Castellano, L. E., Morales-delaNuez, A., Torres, A., **Ruiz-Diaz, M. D.**, Arguello, A., Castro, N. "Effect of milk fat content on goat cheese proteolysis elaborated with the traditional method" *Journal of Dairy Science* (Vol. 93, pp. 329-330). 2010.

Conference proceedings:

- **Ruiz-Diaz M. D.**, Mongan N, Copping K., Alibhai A., Keane M., Purvis I., Perry V. E. A., Rutland C. Effect of maternal protein intake in the development of the bovine epididymis. 21st Annual European Society for Domestic Animal Reproduction (ESDAR) Conference. VetSuisse University, Bern, Switzerland. 2017.
- **Ruiz-Diaz M. D.**, Mongan N., Copping K., Alibhai A., Keane M., Purvis I., Perry V. E. A., Rutland C. The effects of gestational nutrition on the male reproductive system. 9th Young Generation of European Association of Veterinary Anatomists. Brno, Czech Republic. 2017.
- **Ruiz-Diaz, M.D.**, Morales-delaNuez, A., Torres, A., Moreno-Indias, I., Sánchez-Macías, D., Castro, N. and Argüello, A. Effect of different treatments on colostrum antimicrobial activity. 10th international conference on goats. International goats association (IGA). Recife, Brazil. 2010.
- **Ruiz-Diaz, M. D.**, Capote, J., Cein, C., Argüello, A., Moreno-Indias I., Hernández-Castellano, L. E., Castro N. Effects of milking frequency on goat immune status. 10th international conference on goats. International goats association (IGA). Recife, Brazil. 2010.
- Bissieres, V., **Ruiz-Diaz, M. D.**, Morales-delaNuez, A., Moreno-Indias I., Capote, J., Castro N., Argüello, A. Effects of selfsuckling behaviour on immune milk status, milk quality and milk technological parameters. 10th international conference on goats. International goats association (IGA). Recife, Brazil. 2010.

Other conferences attended:

- Fertility 2018 conference. 2018. Birmingham, United Kingdom.
- Little embryos do make big decisions. Symposium supported by the Society for Reproduction and Fertility (SRF). 2017. Southampton, United Kingdom.
- Galton Institute conference 2016. London, United Kingdom.
- Galton Institute conference 2015. London, United Kingdom.

Referees

- **Catrin Rutland**
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- **Nigel Mongan**
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