

Non-Technical Project Summary

Period of approval: January – March 2015

| REFERENCE NUMBER | PROJECT TITLE | KEYWORDS | LINK TO NTPS |
|------------------|---|---|---|
| V001/2015Q1 | Research study into genome-wide association analysis for novel fertility traits in lactating dairy cows | Dairy cow; reproduction; fertility; physiology; genetics; genomics | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v001_2015q1.pdf?sfvrsn=2 |
| V002/2015Q1 | Training project in safe and effective handling of horses during blood sampling | Horse; exercise physiology; teaching; blood sampling | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v002_2015q1.pdf?sfvrsn=2 |
| V003/2015Q1 | Pilot research study investigating the roles of LewisX, a proteoglycan adhesion molecule, in central nervous system formation and repair using mice | LewisX; FORSE1; axon tract formation; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v003_2015q1.pdf?sfvrsn=2 |
| V004/2015Q1 | Research study investigating the efficacy of Cathepsin L1 and Cathepsin L3 against a <i>Fasciola hepatica</i> metacercariae challenge in calves | <i>Fasciola hepatica</i> ; liver fluke; vaccine; bovine | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v004_2015q1.pdf?sfvrsn=2 |
| V005/2015Q1 | Research project to evaluate recombinant proteins as novel subunit diagnostics and vaccines for the bacterium <i>Chlamydophila abortus</i> , the cause of Enzootic Abortion of Ewes | Vaccination; enzootic abortion; sheep; <i>Chlamydophila abortus</i> | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v005_2015q1.pdf?sfvrsn=2 |

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|------------------|---|--|---|
| V006/2015Q1 | Research study using rats to investigate RepHorm II – A real time pH sensor for continuous fetal monitoring during childbirth | Basic research; cardiovascular, blood and lymphatic system | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v006_2015q1.pdf?sfvrsn=2 |
| V007/2015Q1 | Research project investigating the impact of housing characteristics on welfare and performance of beef cattle | Cattle; space allowance; floor type; welfare; performance | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v007_2015q1.pdf?sfvrsn=2 |
| V008/2015Q1 | Research project to develop and validate a rat <i>in utero</i> model of birth asphyxia | Birth asphyxia; preterm brain injury; rat | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v008_2015q1.pdf?sfvrsn=2 |
| V009/2015Q1 | Research project investigating new therapies for the fatal degenerative disorder Krabbe disease using the twitcher mouse model | Krabbe disease; twitcher mice; fingolimod; pFTY720 | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v009_2015q1.pdf?sfvrsn=2 |
| V010/2015Q1 | Research investigation into the effects of feed allowance and duration of feeding level on dairy cow health, welfare and milk production | Dairy cow; early lactation; dry matter intake; feeding allowance | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v010_2015q1.pdf?sfvrsn=2 |
| V011/2015Q1 | Research project investigating the timing of milk replacer feeding after colostrum and transition milk feeding on calf health and weight gain | Calf; health; colostrum; milk feeding; diarrhoea | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v011_2015q1.pdf?sfvrsn=2 |
| V012/2015Q1 | Research project investigating FcγRIIa antagonism for the treatment of rheumatoid arthritis using a mouse model | Rheumatoid arthritis; FcγRIIa; FcγRIIa; drug discovery; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v012_2015q1.pdf?sfvrsn=2 |

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| V013/2015Q1 | Research study investigating the effect of concentrate supplementation rate and by-product inclusion level on milk production and nutrient partitioning in mid-lactation dairy cows offered a grazed pasture diet | Nutrition; milk production; dairy cow; pasture; concentrate supplementation | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v013_2015q1.pdf?sfvrsn=2 |
| V014/2015Q1 | Research study on the influence of bovine viral diarrhoea vaccination on antibody responses in serum and milk of naive dairy cattle | Bovine viral diarrhoea; vaccination; antibodies; cattle | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v014_2015q1.pdf?sfvrsn=2 |
| V015/2015Q1 | Research study investigating stem cell retention and biodistribution of administered exosomes in the infarcted myocardium using rats | Stem cell; myocardial retention; exosome; biomaterial delivery; myocardial infarct; rat | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v015_2015q1.pdf?sfvrsn=2 |
| V016/2015Q1 | Research study investigating the development of a new treatment for amyotrophic lateral sclerosis (ALS) using mice | Amyotrophic lateral sclerosis; central nervous system; mouse models | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v016_2015q1.pdf?sfvrsn=2 |
| V017/2015Q1 | Research project to validate early diagnostic markers of endometritis in cows | Endometritis; post-partum; bovine immunology; cows | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v017_2015q1.pdf?sfvrsn=2 |
| V018/2015Q1 | Research project investigating JAM antagonism in mouse models of cancer | Cancer; mouse; cancer therapy; JAM; tumour; signalling | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v018_2015q1.pdf?sfvrsn=2 |

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|------------------|---|--|---|
| V019/2015Q1 | Research project investigating exercise as a neuroprotectant against age-related neurodegeneration and Alzheimer's Disease using mice | Ageing; Alzheimer's disease; exercise; cognition; neurogenesis; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v019_2015q1.pdf?sfvrsn=2 |
| V020/2015Q1 | Research project to identify and evaluate novel disease modifying agents and cognitive enhancers using a rat model of schizophrenia | Schizophrenia; rat model; social isolation; cognition; drug development | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v020_2015q1.pdf?sfvrsn=2 |
| V021/2015Q1 | Research project to assess the effect of multi-species pasture mixtures on performance and parasite burden of grazing ewes and lambs | Multi-species swards; animal performance; faecal egg counts; mid-season lamb production; sheep | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v021_2015q1.pdf?sfvrsn=2 |
| V022/2015Q1 | Research study investigating the effect of the neuroprotective compound Norgestrel in the treatment of Retinitis Pigmentosa in mice | Retinitis Pigmentosa; norgestrel; retina; photoreceptors; visual impairment; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v022_2015q1.pdf?sfvrsn=2 |
| V023/2015Q1 | Research project investigating the molecular mechanisms of diaphragmatic defects in a nitrofen-induced rat model of congenital diaphragmatic hernia | Nitrofen; congenital diaphragmatic hernia; rat; pleuroperitoneal folds | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v023_2015q1.pdf?sfvrsn=2 |
| V024/2015Q1 | Research project investigating the role of novel IL-36 family members in autoimmune disease using mice | Autoimmune disease; inflammatory bowel disease; psoriasis; immune system; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v024_2015q1.pdf?sfvrsn=2 |
| V025/2015Q1 | Training of researchers in basic procedures using rats, mice and rabbits | Researcher procedural training; rats; mice; rabbits | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v025_2015q1.pdf?sfvrsn=2 |

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|------------------|---|--|---|
| V026/2015Q1 | Research study exploring the development of a novel dual function anti-restenotic and myocardial repair coronary stent and its evaluation in a porcine myocardial infarction model | Coronary stent; myocardial infarction; dual drug eluting stent; IGF-1; myocardial repair; pigs | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v026_2015q1.pdf?sfvrsn=2 |
| V027/2015Q1 | Research project profiling the effects of high fat and high sugar diets on HMG-CoAS2 expression and associated changes in gut barrier function using mice | Mice; fat; sugar; HMG-CoAS2; intestine | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v027_2015q1.pdf?sfvrsn=2 |
| V028/2015Q1 | Research project involving the identification of optimum nutritional intervention strategies for improvement of growth performance, digestive tract health and for reducing emissions in pigs | Feed efficiency; pigs; microbiota; inoculation; feed composition | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v028_2015q1.pdf?sfvrsn=2 |
| V029/2015Q1 | Training of researchers in basic procedures using rats and mice | Training; rats; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v029_2015q1.pdf?sfvrsn=2 |
| V030/2015Q1 | Research project involving proteomic and glycomic profiling during spinal cord regeneration in <i>Xenopus laevis</i> (frogs) | Regeneration; development; spinal cord; frogs; <i>Xenopus laevis</i> | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v030_2015q1.pdf?sfvrsn=2 |
| V031/2015Q1 | Research project to assess the spinal cord effects of sacral nerve root stimulation on faecal incontinence in rats | Spinal cord; sacral neuromodulation; rat; incontinence | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january--march/v031_2015q1.pdf?sfvrsn=2 |

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|------------------|--|---|---|
| V032/2015Q1 | Research study on hair cell development and regeneration in fish and frogs | Regeneration; development; ear; hair cells; sense organs; Eya1; fish; frogs | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january---march/v032_2015q1.pdf?sfvrsn=2 |
| V033/2015Q1 | Research study designed to understand the impact of inflammation on the loss of neuronal function in mice with a special emphasis on age and Alzheimer's disease | Neuroinflammation; age; Alzheimer's disease; mice; neuronal function | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january---march/v033_2015q1.pdf?sfvrsn=2 |
| V034/2015Q1 | Research project to determine injection site toleration of a novel trypanocide compound (DG2) in cattle when administered intramuscularly | Trypanasomosis; cattle; treatment; injection site tolerance; safety | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2015-january---march/v034_2015q1.pdf?sfvrsn=2 |