

Non-Technical Project Summary

Period of approval: October – December 2014

| REFERENCE NUMBER | PROJECT TITLE | KEYWORDS | LINK TO NTPS |
|------------------|---|--|---|
| V001/2014Q4 | Research project to investigate antimicrobial treatment of a <i>Staphylococcus aureus</i> biofilm infection of an intravascular catheter in a rat model | <i>S. aureus</i> ; biofilm; antibacterial; intravascular catheter; antibiotic lock therapy (ALT); rats | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v001_2014q4.pdf?sfvrsn=2 |
| V002/2014Q4 | Research investigation into the modulation of inflammatory disease by novel anti-inflammatory molecules in mice | Atopic dermatitis; anti-inflammatory molecules; immune response; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v002_2014q4.pdf?sfvrsn=2 |
| V003/2014Q4 | Research project to examine the effect of breed type, genetic merit and plane of nutrition on the onset of puberty and pregnancy rate of beef heifers | Beef heifers; puberty; genotype; nutrition | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v003_2014q4.pdf?sfvrsn=2 |
| V004/2014Q4 | Research investigation into Schmallenberg virus in Irish dairy herds | Schmallenberg; virus; dairy cattle; Ireland | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v004_2014q4.pdf?sfvrsn=2 |

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|------------------|--|---|---|
| V005/2014Q4 | Research study investigating innovative control of liver fluke in Irish cattle and sheep leading to sustainable use of anthelmintics and reduced potential for anthelmintic resistance | Liver fluke; beef; dairy; sheep; anthelmintic resistance | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v005_2014q4.pdf?sfvrsn=2 |
| V006/2014Q4 | Research study investigating inter-regional synaptic integration of sensorimotor signals within episodic memory networks using rats | Rodents; hippocampus; memory; sensory; motor | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v006_2014q4.pdf?sfvrsn=2 |
| V007/2014Q4 | Research investigation of novel therapeutic approaches to improve corneal allograft survival by cell and gene therapy and insights into the mechanism of action in rodents | Cornea transplantation; mesenchymal stem cells; immunomodulation; graft rejection; mice; rats | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v007_2014q4.pdf?sfvrsn=2 |
| V008/2014Q4 | Research study to determine the effects of novel pyrrolbenzoxazepine (PBOX) compounds and imatinib on tumour growth in a mouse model of gastrointestinal stromal tumours | Gastrointestinal; imatinib; microtubule targeting agents; PBOX; mouse | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v008_2014q4.pdf?sfvrsn=2 |
| V009/2014Q4 | Research project evaluating the effect of blue light on circulating melatonin concentrations and milk production in dairy cows | Dairy cow; photoperiod; circadian rhythm; physiology; milk production | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v009_2014q4.pdf?sfvrsn=2 |

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|------------------|--|--|---|
| V010/2014Q4 | Research project to investigate targeted intracoronary injection of Gold Nanoparticles for enhanced myocardial Infarct CT imaging in pigs | Gold Nanoparticles; myocardial infarction; pigs; CT imaging | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v010_2014q4.pdf?sfvrsn=2 |
| V011/2014Q4 | 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/q4-2014-october-december/v011_2014q4.pdf?sfvrsn=2 |
| V012/2014Q4 | Research investigation into the development of novel methodology to predict feed intake and feed conversion efficiency in cattle and sheep | Dry matter intake; dairy cows; suckler cows; sheep; feed conversion efficiency | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v012_2014q4.pdf?sfvrsn=2 |
| V013/2014Q4 | Research project to investigate the use of photothermal therapy and gold nanostar administration to modulate tumour progression in conjunction with <i>in vivo</i> photoacoustic imaging in mice | Photothermal therapy; cancer; photoacoustic; nanostars; rodents | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v013_2014q4.pdf?sfvrsn=2 |
| V014/2014Q4 | Research project investigating T cell regulation of DC metabolism and function in rodents | Cellular metabolism; dendritic cells; T cells; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v014_2014q4.pdf?sfvrsn=2 |

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| V015/2014Q4 | Research project investigating the identification of genes involved in gastrointestinal disease in mice | Inflammatory bowel disease; gastrointestinal infection; inflammation; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v015_2014q4.pdf?sfvrsn=2 |
| V016/2014Q4 | Research project investigating the nutritional value of beef from novel lifetime grass-based production systems using cattle | Beef; grass; nutritional composition; production; cattle | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v016_2014q4.pdf?sfvrsn=2 |
| V017/2014Q4 | Research study investigating candidate prophylactic treatments for the prevention of post partum uterine infection in cattle | Cow; uterus infection; health; fertility; endometritis; treatment | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v017_2014q4.pdf?sfvrsn=2 |
| V018/2014Q4 | Research project to investigate the contribution of genotype and environment to the sustainability of dairy cow production systems | Dairy cattle; pregnancy; phenotype; genotype; environment; breeding | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v018_2014q4.pdf?sfvrsn=2 |
| V019/2014Q4 | Research project investigating the evolutionary and behavioural ecology of birds | Personality; cognition; evolution; birds | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v019_2014q4.pdf?sfvrsn=2 |

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| V020/2014Q4 | Research study investigating the development of new treatments for heart failure using a mouse model of cardiac pressure overload | Heart failure; fibrosis; epigenetics; mouse; trans-aortic constriction | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v020_2014q4.pdf?sfvrsn=2 |
| V021/2014Q4 | Research project to investigate early non-invasive and reliable molecular biomarkers of pregnancy in dairy cattle | Dairy cattle; pregnancy; molecular biomarker; fertility; reproduction | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v021_2014q4.pdf?sfvrsn=2 |
| V022/2014Q4 | Research investigation into the use of serum-free mesenchymal stem cells for improved bone regeneration using rats | Mesenchymal stem cells; bone regeneration; cell therapy; fracture healing; rats | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v022_2014q4.pdf?sfvrsn=2 |
| V023/2014Q4 | Research project to determine the effect of intra-mammary infusion of purified proteins on intra-mammary infection induced by <i>Streptococcus uberis</i> in lactating dairy cows | Mastitis; cows; vaccine; <i>Streptococcus uberis</i> ; protein | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v023_2014q4.pdf?sfvrsn=2 |
| V024/2014Q4 | Research project to determine injection site toleration of a novel trypanocide compound (DG2) in cattle when administered intramuscularly | Trypanosomosis; cattle; treatment; injection site tolerance; safety | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v024_2014q4.pdf?sfvrsn=2 |

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| V025/2014Q4 | Regulatory project: conduct of the animal (<i>in vivo</i>) phase of the influenza virus attenuation assay in ferrets | Influenza; vaccine; ferrets | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v025_2014q4.pdf?sfvrsn=2 |
| V026/2014Q4 | Regulatory study: <i>in vivo</i> phase of vaccine immunogenicity/immunopotency studies using mice and ferrets | Immunogenicity; immunopotency; vaccines; mice; ferrets; influenza | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v026_2014q4.pdf?sfvrsn=2 |
| V027/2014Q4 | Regulatory study to generate antisera using rabbits and ferrets | Antisera production; vaccines; allergens; high affinity antibodies; ferrets; rabbits | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v027_2014q4.pdf?sfvrsn=2 |
| V028/2014Q4 | Research project on the development of novel therapeutic approaches to normalise exocytosis of transmitters from nerve endings via SNAREs and Kv1 channels in hyper- and hypo-secretory diseases in rodents | Neurotherapeutics; neurotransmission; neurotoxins; SNARE proteins; Kv1 channels | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2014-october-december/v028_2014q4.pdf?sfvrsn=2 |