

Non-Technical Project Summary

Period of approval: January – March 2016

| REFERENCE NUMBER | PROJECT TITLE | KEYWORDS | LINK TO NTPS |
|------------------|---|---|---|
| V001/2016Q1 | Research project investigating changing the diet of the peripartum dairy cow to increase early lactation, grass dry matter intake and milk production | Cows; rumen; grass; pasture; milk | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v001_2016q1.pdf?sfvrsn=2 |
| V002/2016Q1 | Research investigation into predisposing factors for disease and immunocompetence in artificially-reared dairy and suckled beef calves from birth to weaning | Immunocompetence; animal-health; colostrum; bovine; calf | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v002_2016q1.pdf?sfvrsn=2 |
| V003/2016Q1 | Research project investigating the role of hypoxia in a mouse model of pulmonary disease | Lung disease; vascular disease; hypoxia; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v003_2016q1.pdf?sfvrsn=2 |
| V004/2016Q1 | Research project to examine the opioid system as the brain's interface between cognition and motivation using rats | Rat; brain; mood; motivation; opioid | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v004_2016q1.pdf?sfvrsn=2 |
| V005/2016Q1 | Research project investigating the mechanisms of pulmonary hypertension and pulmonary hypoplasia in the nitrofen-induced rat model of congenital diaphragmatic hernia | Diaphragmatic hernia; malformation; pathophysiology; nitrofen; rats | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v005_2016q1.pdf?sfvrsn=2 |

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|------------------|---|---|---|
| V006/2016Q1 | Research project on the roles of skin and neuronal receptors in inflammation, itch and pain in mice | Inflammation; itch; pain; dermatitis; mouse | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v006_2016q1.pdf?sfvrsn=2 |
| V007/2016Q1 | Research project investigating brain networks and systems supporting learning, memory, cognition and action using rats | Rat; brain; electrophysiology; hippocampus; memory | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v007_2016q1.pdf?sfvrsn=2 |
| V008/2016Q1 | Research project investigating the correlation between dam immunity and calf immunity (IgG) following passive transfer across pooled and non-pooled colostrum and the depletion rate of maternally-derived antibodies in calves | Calf; dairy; colostrum; immunity; immunoglobulins | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v008_2016q1.pdf?sfvrsn=2 |
| V009/2016Q1 | Research study investigating immunomodulation by microorganisms using mice | Bacteria; t-cells; immunity; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v009_2016q1.pdf?sfvrsn=2 |
| V010/2016Q1 | Research project investigating the pharmacological inhibition of the paracrine, cell proliferative function of caspase-3 for the treatment of colorectal cancer using mice | Colorectal cancer; caspase-3; minocycline; aspirin; chemotherapy; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v010_2016q1.pdf?sfvrsn=2 |
| V011/2016Q1 | Research project assessing the therapeutic effect of pulsed electromagnetic fields in combination with mesenchymal stem cells in a rabbit model of diabetic ulceration | Pulsed electromagnetic fields; human mesenchymal stem cells; angiogenesis; diabetic ulceration; rabbits | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v011_2016q1.pdf?sfvrsn=2 |

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| V012/2016Q1 | Research project to investigate the effects of feed allowance and duration of feeding level imposed during different weeks of early lactation on immediate and carryover dairy cow production | Dairy cow; early lactation; dry matter intake; milk; feed allowance | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v012_2016q1.pdf?sfvrsn=2 |
| V013/2016Q1 | Research project to identify predictive biomarker signatures for the anticancer drug Regorafenib using mouse and rat models of colorectal cancer | Cancer; Regorafenib; biomarkers; mouse; rat | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v013_2016q1.pdf?sfvrsn=2 |
| V014/2016Q1 | Research project validating an assay to detect bovine tuberculosis using cattle and training veterinarians in its use | Cows; quality control; bovine tuberculosis; teaching | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v014_2016q1.pdf?sfvrsn=2 |
| V015/2016Q1 | Research project investigating ways of enhancing the efficacy of treatment for glioblastoma using mice | Glioblastoma; brain tumour; cell death; treatment; mouse | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v015_2016q1.pdf?sfvrsn=2 |
| V016/2016Q1 | Regulatory study to generate antisera using mice, rats, rabbits, goats and ferrets | Antisera production; vaccines; allergens; high affinity antibodies; mice; rats; ferrets; rabbits; goats | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v016_2016q1.pdf?sfvrsn=2 |
| V017/2016Q1 | Research project on the role of miRNAs in the development of neuropsychological pathologies using rats and mice | Stress; depression; anxiety; microRNAs; rats; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v017_2016q1.pdf?sfvrsn=2 |

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|------------------|--|--|---|
| V018/2016Q1 | Research project investigating the characterisation of amperometric sensors and microdialysis probes in mice | Parkinson's disease; neurochemical monitoring; electrochemical sensors; microdialysis; amperometry; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v018_2016q1.pdf?sfvrsn=2 |
| V019/2016Q1 | Research project to assess the effects of grass-fed and grain-fed beef nutrients on metabolic and cardiovascular health using mice | Mouse; beef; atherosclerosis; cardiovascular; obesity | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v019_2016q1.pdf?sfvrsn=2 |
| V020/2016Q1 | Research project into mesenchymal stem cell (MSC) therapy for osteoarthritis using mice: identification of early cellular changes post-intra-articular implantation and identification of factors involved | MSC; osteoarthritis; trophic therapeutic factors; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v020_2016q1.pdf?sfvrsn=2 |
| V021/2016Q1 | Research project investigating innate immune regulation of infection and inflammation using mice | Innate immunity; infection; mice; reactive oxygen species | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v021_2016q1.pdf?sfvrsn=2 |
| V022/2016Q1 | Research study investigating the biodistribution and anti-cancer effects of novel chemical compounds on a breast cancer model using mice | Ruthenium; nanoparticles; PDT; imaging; cancer; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v022_2016q1.pdf?sfvrsn=2 |
| V023/2016Q1 | Research investigation into the effects of various therapeutics on inflammatory pathways in equine synovitis models | LPS induced synovitis; osteoarthritis; horse; hyaluronic acid; nanomedicine | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v023_2016q1.pdf?sfvrsn=2 |

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|------------------|--|--|---|
| V024/2016Q1 | Research project examining the role of a novel stromal cell protein CD362/Syndecan-2 in the breast tumour microenvironment using mice | Breast cancer; stroma; syndecan-2; peptide/antibody therapeutics; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v024_2016q1.pdf?sfvrsn=2 |
| V025/2016Q1 | Research study investigating cellular and molecular mechanisms of epilepsy in mice | Epilepsy; hippocampus; seizure; biomarkers; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v025_2016q1.pdf?sfvrsn=2 |
| V026/2016Q1 | Research investigation into grass production and dairy cow performance on fertilised grass clover swards | Dairy cow; grassland; white clover; milk production; milk quality | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v026_2016q1.pdf?sfvrsn=2 |
| V027/2016Q1 | Research study investigating novel dietary strategies to manipulate the carcass composition of young dairy bred beef bulls managed under a pasture based production system | Beef; calves; nutrition; carcass; fat | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v027_2016q1.pdf?sfvrsn=2 |
| V028/2016Q1 | Research into the mouse gut microbiota's involvement in metabolic and inflammatory effects of fats | Fat; metabolic syndrome; gut microbiota; inflammation; mouse | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v028_2016q1.pdf?sfvrsn=2 |
| V029/2016Q1 | Research project investigating whether <i>in utero</i> exposure to SSRI antidepressants in rats has sustained deleterious consequences | SSRI antidepressants; pregnancy; rat; development; behaviour | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v029_2016q1.pdf?sfvrsn=2 |

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|------------------|---|--|---|
| V030/2016Q1 | Research on the evolutionary and physiological ecology of fish | Trout; salmonid; migration; evolution; ecology | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v030_2016q1.pdf?sfvrsn=2 |
| V031/2016Q1 | Research project investigating rational therapeutic combinations for triple negative breast cancer using mice | Triple negative breast cancer; combination therapies; resistance; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v031_2016q1.pdf?sfvrsn=2 |
| V032/2016Q1 | Research project investigating the expression of glycans during heart regeneration in zebrafish | Heart regeneration; myocardial infarction; cryoinjury; glycans; zebrafish | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v032_2016q1.pdf?sfvrsn=2 |
| V033/2016Q1 | Research on nerve stimulation treatment for faecal incontinence caused by childbirth injuries using a rat model | Faecal incontinence; childbirth; rat; sacral nerve stimulation | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v033_2016q1.pdf?sfvrsn=2 |
| V034/2016Q1 | Research project investigating molecular mechanisms and biomarkers of post-traumatic epilepsy following brain injury using mice | Mouse; traumatic brain injury; epilepsy; seizures; biomarkers | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v034_2016q1.pdf?sfvrsn=2 |
| V035/2016Q1 | Research project investigating gut phageomics-phage as diagnostics and/or therapeutics in inflammatory bowel disease using mice | Bacteriophage; inflammatory bowel disease (IBD); colitis; microbiota; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v035_2016q1.pdf?sfvrsn=2 |

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|------------------|--|--|---|
| V036/2016Q1 | Research investigation into the effect of prebiotic dairy products in the gut microbiota of elderly persons, using mice | Microbiota; elderly; dairy; prebiotic; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v036_2016q1.pdf?sfvrsn=2 |
| V037/2016Q1 | Research project to evaluate the rewarding effects of acetaldehyde, a major tobacco smoke component, when it is administered with or without nicotine in early adolescent rats | Reward processes; rats; tobacco smoking; nicotine; acetaldehyde | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v037_2016q1.pdf?sfvrsn=2 |
| V038/2016Q1 | Research project developing gene therapies for recessively inherited RP2- and TULP1-linked retinopathies using mice | Gene therapy; RP2; RP14; AAV; retina; mice | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v038_2016q1.pdf?sfvrsn=2 |
| V039/2016Q1 | Regulatory project for the establishment and maintenance of a parasite library using companion animals, farm animals and rodents | Parasite; ectoparasite; endoparasite; drug development; companion animal; farm animal; rodents | http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2016-january--march/v039_2016q1.pdf?sfvrsn=2 |