

## Non-Technical Project Summary

Period of approval: July – September 2016

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2016Q3	Research project: Enhancing the efficacy of treatment for Glioblastoma through the combination therapy of Bevacizumab and nanoparticle-conjugated siRNA therapies using mice and rats	Glioblastoma; bevacizumab; combination therapy; immunotherapy; rats; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v001_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v001_2016q3.pdf?sfvrsn=2</a>
V002/2016Q3	Research project investigating the link between gut microbial systems and Parkinson's disease pathophysiology using mice	Parkinson's disease; alpha-synuclein; gut microbiota; biomarkers; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v002_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v002_2016q3.pdf?sfvrsn=2</a>
V003/2016Q3	Translational pharmacology research project for drug discovery using rats and mice	Drug discovery; rat; mouse; depression	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v003_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v003_2016q3.pdf?sfvrsn=2</a>
V004/2016Q3	Research 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	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v004_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v004_2016q3.pdf?sfvrsn=2</a>
V005/2016Q3	Research project assessing Avastin (B20) or Bevacizumab response in combination with FOLFOX in preclinical colorectal cancer mouse models	Colon cancer; angiogenesis; PDX; FOLFOX; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v005_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v005_2016q3.pdf?sfvrsn=2</a>

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V006/2016Q3	Research project: Investigating changes in the brain in a rat model of inflammatory bowel disease	Inflammatory bowel disease; MRI; inflammation; behaviour; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v006_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v006_2016q3.pdf?sfvrsn=2</a>
V007/2016Q3	Research project examining the effects of S1P receptor drugs in APP23 and 3xTg-AD transgenic mouse models of Alzheimer's disease	Alzheimer's disease; APP23 mice; 3xTg-AD mice; fingolimod; pFTY720; Sphingosine-1 phosphate receptor	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v007_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v007_2016q3.pdf?sfvrsn=2</a>
V008/2016Q3	Research study investigating bottlenose dolphins on the west coast of Ireland	Bottlenose dolphin; killer whale; population structure; genetics	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v008_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v008_2016q3.pdf?sfvrsn=2</a>
V009/2016Q3	Research project: Investigation of a novel drug to overcome therapy resistance in HER2 positive breast cancer using a mouse model	Breast cancer; drug resistance; mice; HER2	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v009_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v009_2016q3.pdf?sfvrsn=2</a>
V010/2016Q3	Research project using APPswe/PS1DE9 mice, a transgenic model of Alzheimer's disease to investigate the neuroprotective effects of phytocannabinoid analogues on hippocampal long-term potentiation	Alzheimer's disease; APPswe/PS1dE9; phytocannabinoid; hippocampus; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v010_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v010_2016q3.pdf?sfvrsn=2</a>
V011/2016Q3	Breeding of APPswe/PS1DE9 mice, a transgenic model of Alzheimer's disease	Alzheimer's disease; APPswe/PS1dE9; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v011_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v011_2016q3.pdf?sfvrsn=2</a>

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V012/2016Q3	Regulatory and research project to assess the effects of botulinum neurotoxin products and related products on lower limb function, motor coordination, systemic distribution, neuromuscular function and distribution in rodents using the Compound Muscle Action Potential (cMAP) assay	Neurotoxin; neuromuscular function; muscle action potential (cMAP); rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v012_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v012_2016q3.pdf?sfvrsn=2</a>
V013/2016Q3	Research project investigating the efficacy of collagen fibre construct and its effect on peripheral nerve repair in rats	Biomaterials; nerve injury; rats	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v013_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v013_2016q3.pdf?sfvrsn=2</a>
V014/2016Q3	Research project investigating the use of feed supplementation to influence late lactation milk quality in cattle	Dairy cow; milk quality; supplementation; late lactation	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v014_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v014_2016q3.pdf?sfvrsn=2</a>
V015/2016Q3	Research project investigating the effect of gut bacterial proteins upon physiological processes in mice	Bile acids; microbiota; cholesterol; atherosclerosis; cancer; drug uptake; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v015_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v015_2016q3.pdf?sfvrsn=2</a>
V016/2016Q3	Research project on the identification of novel bioactives capable of modifying food intake, mood or stress-sensitivity, through GPCR modulation and gut hormone secretion in mice	Natural bioactives; appetite; obesity; probiotics; prebiotics; stress; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v016_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v016_2016q3.pdf?sfvrsn=2</a>
V017/2016Q3	Research project: Involvement of gut microbiota in liver regeneration in mice	Partial hepatectomy; liver regeneration; mice; gut microbiota	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v017_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v017_2016q3.pdf?sfvrsn=2</a>

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V018/2016Q3	A research project to reduce urinary nitrogen excretion by grass-fed beef cattle	Cattle; environment; nitrogen; grass; fertiliser	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v018_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v018_2016q3.pdf?sfvrsn=2</a>
V019/2016Q3	Research project: Involvement of gut microbiota and innate immune system in liver regeneration in mice	Partial hepatectomy; liver regeneration; mice; toll like receptor 4; gut microbiota	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v019_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v019_2016q3.pdf?sfvrsn=2</a>
V020/2016Q3	Research project assessing the safety of a polymer transfection vector for the skin using mice	Recessive dystrophic epidermolysis bullosa; RDEB; skin; collagen; non-viral; gene therapy; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v020_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v020_2016q3.pdf?sfvrsn=2</a>
V021/2016Q3	Research project: An evaluation of the effects of mineral supplementation on ewe reproductive performance and the performance of their progeny	Trace minerals; ewe fertility; lamb performance supplementation; cobalt; deficiency	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v021_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v021_2016q3.pdf?sfvrsn=2</a>
V022/2016Q3	Research project: Establishing the effects of pasture and soil type on ovine blood mineral composition	Lamb; mineral status; pasture; soil; sheep	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v022_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v022_2016q3.pdf?sfvrsn=2</a>
V023/2016Q3	Research project investigating novel treatments for depression using mice	Depression; antidepressant; mouse; astrocytes; biomarker	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v023_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v023_2016q3.pdf?sfvrsn=2</a>

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V024/2016Q3	Research investigation into a radical approach for improved glaucoma treatment in mice	Glaucoma; Schlemm's Canal; tight junction proteins; intraocular pressure; RNAi	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v024_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v024_2016q3.pdf?sfvrsn=2</a>
V025/2016Q3	Research project investigating the role of novel signalling molecules in chronic obstructive pulmonary disease using mice.	Chronic obstructive pulmonary disease; COPD; lung; inflammation mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v025_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v025_2016q3.pdf?sfvrsn=2</a>
V026/2016Q3	Research project investigating <i>in situ</i> formed skin substitute in combination with stem cells for wound healing in mice	Wound healing; skin substitute; stem cells; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v026_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v026_2016q3.pdf?sfvrsn=2</a>
V027/2016Q3	Research project investigating the role of the Macrophage Migration Inhibitory Factor (MIF) in lung tumour growth using mice	Small cell lung cancer; macrophage; MIF; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v027_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v027_2016q3.pdf?sfvrsn=2</a>
V028/2016Q3	Research project investigating the role of glial cells in rat models of major depressive disorder	Depression; glutamate; glial cells; MRI; biomarker; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v028_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v028_2016q3.pdf?sfvrsn=2</a>
V029/2016Q3	Research project investigating novel cellular activated targeted fluorescent probes in mouse models of cancer	Fluorescent probes; targeted; imaging; cancer; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v029_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v029_2016q3.pdf?sfvrsn=2</a>
V030/2016Q3	Research project: Does perioperative IV lidocaine infusion during tumour resection	Cancer; surgery; anaesthesia; recurrence; metastasis; lidocaine; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v030_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v030_2016q3.pdf?sfvrsn=2</a>

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	surgery reduce metastatic disease in the 4T1 mouse model of breast cancer		
V031/2016Q3	Research project: novel collagen-based scaffold system for the local delivery of antibiotics for the treatment of microbial bone infections and enhancement of tissue regeneration using mice	Osteomyelitis; bone infection; tissue engineering; collagen scaffold; antibiotic delivery; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v031_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v031_2016q3.pdf?sfvrsn=2</a>
V032/2016Q3	Research project: Development of DNA based biomarkers for compensatory growth in beef cattle	Basic research; animal biology	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v032_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v032_2016q3.pdf?sfvrsn=2</a>
V033/2016Q3	Research project to determine the effects of glucagon-like peptide (GLP)-1 analogues on the reversal of cardiovascular disease in atherosclerosis prone Apolipoprotein E (ApoE) knock-out mice	Cardiovascular disease; obesity; glucagon like peptide (GLP)-1; reverse cholesterol transport (RCT); macrophages; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v033_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v033_2016q3.pdf?sfvrsn=2</a>
V034/2016Q3	Research project: Serotonin transporter regulation and depression-like behaviour in a mouse model of rheumatoid arthritis: molecular mechanisms, gender differences and proof-of-principle drug treatment study	Depression; arthritis; immune system; serotonin; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v034_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v034_2016q3.pdf?sfvrsn=2</a>
V035/2016Q3	Research project investigating novel antioxidant therapeutics for pre-eclampsia using rats	Pre-eclampsia; oxidative stress; antioxidants; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v035_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v035_2016q3.pdf?sfvrsn=2</a>

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V036/2016Q3	Research study for the identification of suitable markers of circadian phase in equine peripheral tissues and determination of the free running circadian rhythm in the horse	Circadian disruption; chronobiology; jet-lag; horse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v036_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v036_2016q3.pdf?sfvrsn=2</a>
V037/2016Q3	Research project: ablation of stromal cells and stromal-derived proteins in the breast tumour microenvironment using mice	Syndecan-2; stroma; FAP; breast cancer; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v037_2016q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q-3-2016-july---september/v037_2016q3.pdf?sfvrsn=2</a>