

## Non-Technical Project Summary

Period of approval: October – December 2015

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2015Q4	Research project investigating pain and the therapeutic effect of implantable hyaluronic acid hydrogel after intervertebral disc injury in rats	Intervertebral disc degeneration; spine; pain; biomaterials; rats	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v001_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v001_2015q4.pdf?sfvrsn=2</a>
V002/2015Q4	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	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v002_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v002_2015q4.pdf?sfvrsn=2</a>
V003/2015Q4	Research study investigating inter-vertebral disc regeneration using therapeutic hydrogels in the rat tail	Rat tail; disc degeneration; therapeutic hydrogels	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v003_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v003_2015q4.pdf?sfvrsn=2</a>
V004/2015Q4	Research project investigating microbes as modifiers of the brain epigenetic landscape and the regulatory potential of brain microRNAs using mice	Microbiome; gut-brain-axis; neurodevelopmental disease; anxiety, non-coding RNA; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v004_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v004_2015q4.pdf?sfvrsn=2</a>
V005/2015Q4	Research project to determine the role of the hippocampus and hippocampal neurogenesis in stress and antidepressant action in mice	Hippocampus; depression; anxiety; memory; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v005_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v005_2015q4.pdf?sfvrsn=2</a>

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V006/2015Q4	Research project into designing a biomaterial system capable of delivering a therapeutic that will promote blood vessel formation and form the basis of a treatment of ischemic disease using mice	Ischaemia; mice; glycobiology; elastin; angiogenesis	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v006_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v006_2015q4.pdf?sfvrsn=2</a>
V007/2015Q4	Research project evaluating the effects of advancing postpartum onset of oestrous cyclicity on uterine involution and endometritis in lactating dairy cows	Dairy cows; late calving; equine chorionic gonadotropin	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v007_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v007_2015q4.pdf?sfvrsn=2</a>
V008/2015Q4	Research project elucidating the angiogenic and immunomodulatory potential of syndecan-2 (SDC2/CD362) selected mesenchymal stromal cells in critical limb ischemia using mice	Ischemia; angiogenesis; stromal immunology; re-vascularization; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v008_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v008_2015q4.pdf?sfvrsn=2</a>
V009/2015Q4	Research project examining the effects of S1P receptor drugs in APP23 transgenic mouse model of Alzheimer's disease	Alzheimer's disease; APP23 mice; fingolimod; pFTY720; Sphingosine-1 phosphate receptor	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v009_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v009_2015q4.pdf?sfvrsn=2</a>
V010/2015Q4	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	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v010_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v010_2015q4.pdf?sfvrsn=2</a>

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V011/2015Q4	Teaching project in relation to diagnostic techniques for veterinary nutrition investigations in cattle	Liver biopsy; rumenocentesis; cattle	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v011_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v011_2015q4.pdf?sfvrsn=2</a>
V012/2015Q4	Research study to determinate net energy and protein values of feeds for ruminants, using sheep	Sheep; ruminant; digestibility; total faecal collection	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v012_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v012_2015q4.pdf?sfvrsn=2</a>
V013/2015Q4	Research project to examine the effects of multipotent adult progenitor cells on cytokine (small molecule) driven proliferation using mice	Graft rejection; stem cells; transplant; T cells; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v013_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v013_2015q4.pdf?sfvrsn=2</a>
V014/2015Q4	A research study to investigate reliability of vaginal smear technique for determining reproductive cycle stages in rats	Reproductive cycle; vaginal smear; oestrogen; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v014_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v014_2015q4.pdf?sfvrsn=2</a>
V015/2015Q4	A research project to investigate immunomodulatory stromal cell therapy for corneal transplantation using rats	MSCs; stem cells; cell therapy; corneal transplantation; rats	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v015_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v015_2015q4.pdf?sfvrsn=2</a>
V016/2015Q4	Research project investigating innovative strategies for the treatment of Inflammatory Bowel Disease using mice	Inflammatory bowel disease; biotechnology therapeutics; nanotechnology; cellular interactions; <i>in vivo</i>	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v016_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v016_2015q4.pdf?sfvrsn=2</a>

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		mucosal healing; mice	
V017/2015Q4	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/q4-2015-october---december/v017_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v017_2015q4.pdf?sfvrsn=2</a>
V018/2015Q4	Research project investigating the therapeutic potential of Mesenchymal Stem Cells that over-express CCR-2 to stimulate angiogenesis in a mouse model of critical limb ischemia	Peripheral arterial disease; mesenchymal stem cells; therapeutics; angiogenesis; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v018_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v018_2015q4.pdf?sfvrsn=2</a>
V019/2015Q4	Research project into BAG3 as a potential therapeutic target to impair primary tumour development and metastatic spread in an orthotopic in vivo mouse model of triple negative breast cancer	Triple negative; breast cancer; BAG3; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v019_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v019_2015q4.pdf?sfvrsn=2</a>
V020/2015Q4	Research study to assess the effects of various neurotoxins on lower limb function or motor coordination in mice using the Digit Abduction Score (DAS) assay	Mouse; neurotoxin; digit abduction score; botulinum	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v020_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v020_2015q4.pdf?sfvrsn=2</a>
V021/2015Q4	Training project in safe and effective handling of horses during blood sampling	Horse; exercise physiology; teaching; blood sampling	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v021_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v021_2015q4.pdf?sfvrsn=2</a>

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V022/2015Q4	Research project to assess the augmentation of meniscal repair using human mesenchymal stem cells in rabbits	Meniscus; meniscus scaffold; mesenchymal stem cells; rabbit	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v022_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v022_2015q4.pdf?sfvrsn=2</a>
V023/2015Q4	Research study on immunological mechanisms in disease protection using mice	Vaccine; infectious disease; transcutaneous skin patch; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v023_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v023_2015q4.pdf?sfvrsn=2</a>
V024/2015Q4	Research project evaluating pharmacokinetics of prolonged release of an injectable drug device using rats	Prolonged release; hay fever; rats; intramuscular injection	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v024_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v024_2015q4.pdf?sfvrsn=2</a>
V025/2015Q4	Research study to investigate the migration behaviour and ecology of Atlantic salmon and European eels	Salmon; eel; fish; conservation; behaviour; telemetry	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v025_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v025_2015q4.pdf?sfvrsn=2</a>
V026/2015Q4	Training project for human surgeons to acquire microsurgical skills using rats	Microsurgical skills; microvascular; training; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v026_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v026_2015q4.pdf?sfvrsn=2</a>
V027/2015Q4	Research project to determine the pharmacokinetics and local tolerance of a range of related novel trypanocide compounds in cattle	Trypanosomosis; cattle; treatment; pharmacokinetics; safety	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v027_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v027_2015q4.pdf?sfvrsn=2</a>

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V028/2015Q4	Research project investigating the effects of novel probiotic strains and prebiotics on C-section-mediated alterations in gastrointestinal microbiota composition, and the subsequent behavioural and physiological outputs using rats and mice	C-section; microbiota; brain; probiotics; prebiotics; mice; rats	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v028_2015q4.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2015-october---december/v028_2015q4.pdf?sfvrsn=2</a>

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