

Non-Technical Project Summary

Period of approval: January – March 2017

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2017Q1	Research project using gene-activated scaffolds for bone and cartilage repair in rats	Bone; cartilage; ectopic tissue; non-viral gene therapy; biomaterial scaffolds; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v001_2017q1.pdf?sfvrsn=2
V002/2017Q1	Research project: validation of novel methodology to predict feed intake and feed efficiency in sheep	Intake; feed efficiency; milk yield; rumen function; sheep	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v002_2017q1.pdf?sfvrsn=2
V003/2017Q1	Research project assessing helminth animal models for inflammation research using rats and mice	Inflammation; allergies; asthma; parasitic; worms; rodents	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v003_2017q1.pdf?sfvrsn=2
V004/2017Q1	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	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v004_2017q1.pdf?sfvrsn=2

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V005/2017Q1	Research study to determine the heritability of lamb serum immunoglobulin concentration at 24 hours postpartum	Immunoglobulin G; immunity; lamb; survival	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v005_2017q1.pdf?sfvrsn=2
V006/2017Q1	Research project investigating the digestibility of grass alone compared to grass plus white clover in sheep	Grass; white clover; sheep; digestibility; intake	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v006_2017q1.pdf?sfvrsn=2
V007/2017Q1	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/quarter-1-2017-ntps/v007_2017q1.pdf?sfvrsn=2
V008/2017Q1	Research study: adapting autumn and spring grazing management strategies to increase spring grass availability and milk production within intensive dairy cattle grazing systems	Dairy cow; grassland; spring grazing; milk production	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v008_2017q1.pdf?sfvrsn=2
V009/2017Q1	Research project: Effect of litter size and ewe parity on ewe and lamb behaviour during the periparturient period and subsequent performance	Ewe; lamb; parity; litter size; behaviour; performance; survival rates	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v009_2017q1.pdf?sfvrsn=2

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V010/2017Q1	Research project: gene-activated scaffolds for bone repair using rats	Tissue engineering; gene therapy; bioactive scaffolds; bone repair; regenerative medicine; rats	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v010_2017q1.pdf?sfvrsn=2
V011/2017Q1	Research project to evaluate the effects of split sex rearing and mineral supplementation on limb health and stress in developing female pigs	Translational and applied research; animal welfare	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v011_2017q1.pdf?sfvrsn=2
V012/2017Q1	Research project investigating the effect of supplementary concentrate feeding in late lactation on production, milk quality and milk processability in dairy cows	Dairy cow; milk quality; supplementation; late lactation	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v012_2017q1.pdf?sfvrsn=2
V013/2017Q1	Research investigation into the mechanistic basis for pain relieving and anti-inflammatory effects of SNARE-cleaving toxins in the rat	Botulinum toxin; neurotherapeutics; chronic pain; inflammation; rat; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v013_2017q1.pdf?sfvrsn=2
V014/2017Q1	Research project investigating the effect of milk replacer crude protein content and reconstitution rate on dairy calf growth rate, health and abomasal emptying rate	Calf; dairy; health; milk replacer; abomasal bloating	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v014_2017q1.pdf?sfvrsn=2

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V015/2017Q1	Research project investigating the pharmacokinetics, biodistribution and toxicity of novel anticancer nanoparticles using mice and rats	Nanomedicine; nanoparticle; pharmacokinetics; biodistribution; toxicity; cancer; mice; rats	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v015_2017q1.pdf?sfvrsn=2
V016/2017Q1	Research project targeting glial β_2 -adrenoceptors to combat neurodegeneration in a rat model of Parkinson's disease	Inflammation; Parkinson's disease; glia; noradrenaline; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v016_2017q1.pdf?sfvrsn=2
V017/2017Q1	Breeding of mice with alterations in genes that lead to spontaneous inflammation	Inflammation; mice; mutant; eczema; asthma	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v017_2017q1.pdf?sfvrsn=2
V018/2017Q1	Research in a pig model for the development of a novel medical device to improve the safety of a lung biopsy procedure by preventing a collapsed lung (pneumothorax)	Pig; pneumothorax; lung; transthoracic needle biopsy; medical device	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v018_2017q1.pdf?sfvrsn=2
V019/2017Q1	Research project: Strategic use of neonatal energy supplementation to reduce piglet pre-weaning mortality	Piglets; energy; survival; cognition	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v019_2017q1.pdf?sfvrsn=2
V020/2017Q1	Regulatory study: <i>in vivo</i> phase of vaccine immunogenicity/immunopotency studies using rats, mice and ferrets	Immunogenicity; immunopotency; vaccines; mice; ferrets; influenza	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v020_2017q1.pdf?sfvrsn=2

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V021/2017Q1	Research project examining the immune properties following <i>Fasciola hepatica</i> infection and injection of native and recombinant <i>F. hepatica</i> derived molecules using mice and rats	<i>Fasciola hepatica</i> ; liver fluke; immune system; vaccine; anti-inflammatory; mice; rats	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v021_2017q1.pdf?sfvrsn=2
V022/2017Q1	Research project: effect of fermentable carbohydrate supplementation on milk production, rumen metabolism, and omasal flow of nutrients in lactating dairy cattle fed pasture diets	Dairy cow; pasture-fed diets; omasal sampling; supplementation; milk production; rumen cannulation	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v022_2017q1.pdf?sfvrsn=2
V023/2017Q1	Research project investigating calf health and welfare on commercial Irish dairy farms	Calf; dairy; health; welfare; colostrum; IgG antibody	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v023_2017q1.pdf?sfvrsn=2
V024/2017Q1	Research project: Evaluation of Tissue Engineering Strategies for regenerating musculoskeletal (cartilage, bone and osteochondral) defects using mice	Musculoskeletal tissue engineering; extracellular matrix; osteochondral defect; 3D bioprinting; biphasic scaffold; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v024_2017q1.pdf?sfvrsn=2
V025/2017Q1	Research project: Development of a smart needle integrated with an impedance sensor to determine needle to nerve proximity for anaesthetic (nerve blocking) procedures using pigs	Bioimpedance; needle location; tissues; ultrasound guided peripheral nerve block; pig	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v025_2017q1.pdf?sfvrsn=2

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V026/2017Q1	Research project evaluating tendon tissue response and regeneration to piezoelectric and non-piezoelectric fibrous biomaterials produced by electrospinning using a rat Achilles tendon animal model	Piezoelectric; electrospun scaffold; biomaterial; tendon repair; Achilles tendon; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v026_2017q1.pdf?sfvrsn=2
V027/2017Q1	Research project investigating bioprinted approaches for osteochondral defect repair using rabbits	Bioprinting; osteochondral defect regeneration; growth factor; hydrogel; tissue engineering; joint replacement; rabbits	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v027_2017q1.pdf?sfvrsn=2
V028/2017Q1	Research investigation into the effects of various therapeutics on inflammatory pathways in equine synovitis models	LPS induced synovitis; equine; arthritis	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v028_2017q1.pdf?sfvrsn=2
V029/2017Q1	Research project investigating the role of gut microbiota composition in the onset of depression using rats	Faecal microbiota transplantation; microbiota; antidepressant; gut-brain axis; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v029_2017q1.pdf?sfvrsn=2
V030/2017Q1	Research project investigating the modulation of brain function with gut peptides using rats	Gut hormones; peptides; gut microbiota; intestine; brain; behaviour; rats	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v030_2017q1.pdf?sfvrsn=2
V031/2017Q1	Research project: Investigating the effects of artificially extended photoperiod comprising an optimised spectral composition on the growth and performance of young Thoroughbred racehorses in training	Chronobiology; growth; gene expression; performance; horse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v031_2017q1.pdf?sfvrsn=2

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V032/2017Q1	Research project using mice to understand the multidirectional axes of communication between the gut microbiome and the brain in acute stress	Stress; gut-brain axis; cognition; microbiota; probiotics	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v032_2017q1.pdf?sfvrsn=2
V033/2017Q1	Research project investigating the effect of a synthetic protein on the healing of wounds using mice	Synthetic protein; wound healing; diabetes; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v033_2017q1.pdf?sfvrsn=2
V034/2017Q1	Research project investigating the mechanisms by which PINK1 protects against Parkinson's disease in rats, in order to develop better biomarkers and treatment targets for this disease	Parkinson's Disease; PINK1; alpha-synuclein; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v034_2017q1.pdf?sfvrsn=2
V035/2017Q1	Research project: Enhancing the antimicrobial efficacy of mesenchymal stem cells (MSCs) for eliminating sepsis induced acute lung injury (ALI) using a novel combination of immune-stimulants in rats	Pneumonia; mesenchymal stem cells; beta-Glucans; Acute Lung Injury; antibacterial agents	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v035_2017q1.pdf?sfvrsn=2
V036/2017Q1	Research project to establish within-herd serological prevalence of four major respiratory pathogens in selected Irish pig herds with porcine respiratory disease complex	Pigs; respiratory disease prevalence; serology	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v036_2017q1.pdf?sfvrsn=2
V037/2017Q1	Research into Parkinson's disease using neurochemical monitoring by amperometry and microdialysis in mice	Parkinson's disease; amperometry; microdialysis; cell transplantation; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntps/v037_2017q1.pdf?sfvrsn=2

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V038/2017Q1	Research project defining the role of novel biotherapeutics in DSS-induced colitis in mice	Colitis; inflammation; biotherapeutics; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntp/v038_2017q1.pdf?sfvrsn=2
V039/2017Q1	Research project involving breeding a mouse model of Rett syndrome	Neuropsychiatric disorders; Rett Syndrome; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntp/v039_2017q1.pdf?sfvrsn=2
V040/2017Q1	Research project investigating development and progression of fibrotic disease using mice	Fibrosis; oxidants; bowel inflammation; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntp/v040_2017q1.pdf?sfvrsn=2
V041/2017Q1	Research project: Resolvin D1; a bioactive lipid as an adjunct perioperative therapeutic approach for the treatment of breast cancer metastases using mice	Breast cancer; metastasis; resolvin; inflammation; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2017-ntp/v041_2017q1.pdf?sfvrsn=2