

Non-Technical Project Summary

Period of approval: Q1 January – March 2018

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2018Q1	Training project in safe and effective handling of horses during blood sampling	Horse; exercise physiology; teaching; blood sampling	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v001_2018q1.pdf?sfvrsn=2
V002/2018Q1	Research project investigating the effect of early life plane of nutrition on the molecular control of the hypothalamic-pituitary-ovarian axis in the heifer	HPT axis; gene expression; puberty; nutrition; heifer; cattle; milk production	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v002_2018q1.pdf?sfvrsn=2
V003/2018Q1	Research project to improve the understanding of the role of diet, host feed efficiency and genetics on the rumen microbiome and environmental outputs in beef cattle	Bovine; rumen microbiome; methane output; nitrogen efficiency; feed efficiency	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v003_2018q1.pdf?sfvrsn=2
V004/2018Q1	ImmunoMet- Research on dietary interventions for modulating microbiota diversity using mice	Microbiome; diet; obesity; Diabetes; mice; immunity	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v004_2018q1.pdf?sfvrsn=2
V005/2018Q1	Research project comparing the health, fertility and productivity of contract reared (CR) and non-CR dairy heifers	Bovine; heifer; contract rearing; animal health; biosecurity; fertility; productivity; cattle	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v005_2018q1.pdf?sfvrsn=2

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V006/2018Q1	Research investigation into the modulation of inflammatory disease by novel anti-inflammatory molecules in mice	Translational and applied research; human immune disorders	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v006_2018q1.pdf?sfvrsn=2
V007/2018Q1	Research project: development of a gel as a carrier for cancer drugs that can be delivered directly to pancreatic tumours using mice	Pancreatic cancer; chemotherapy; injectable chemotherapy gel; sustained release; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v007_2018q1.pdf?sfvrsn=2
V008/2018Q1	Research project investigating the effects of hypoxia mimetics on isolated rat gut	Inflammatory bowel disease; smooth muscle; hypoxia mimetics; duodenum; colon; contractions; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v008_2018q1.pdf?sfvrsn=2
V009/2018Q1	Research project on the impact of diet on host susceptibility to infection with <i>Listeria monocytogenes</i> in mice	Mice; listeria; infection; microbiome; diet	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v009_2018q1.pdf?sfvrsn=2
V010/2018Q1	Research project evaluating the effect of tetraploid and diploid swards with and without white clover inclusion on the productivity of spring milk production systems in dairy cows	Dairy cow; grassland; grazing; milk production; white clover	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v010_2018q1.pdf?sfvrsn=2
V011/2018Q1	Research project on the effects of ewe age at first parturition and previous lambing experience on ewe and lamb behaviour during the peri-parturient period	Ewe; lamb; behaviour; age; experience; first lambing	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v011_2018q1.pdf?sfvrsn=2

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V012/2018Q1	Research project using mouse models of diet-induced obesity and related metabolic conditions for research into inflammation	Obesity; metabolism; inflammation; immunology; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v012_2018q1.pdf?sfvrsn=2
V013/2018Q1	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-1-2018-ntp/v013_2018q1.pdf?sfvrsn=2
V015/2018Q1	Research project: deep phenotyping of a dairy cow herd to research the physiological mechanisms that support greater productivity	Bos Taurus; reproduction; milk production; nutrient partitioning; genetics; genetic selection; genomics; transcriptomics; immune system	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v015_2018q1.pdf?sfvrsn=2
V016/2018Q1	Research project: Investigating the implications of dietary energy density and source of saturated fat in late gestation and lactation on colostrum and milk quality and the performance of sows and their piglets.	Sow; piglet; nutrition; energy; fat; colostrum; milk; animal welfare	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v016_2018q1.pdf?sfvrsn=2
V017/2018Q1	Research project investigating rearing strategies for bovine dairy heifers	Bovine; dairy; heifer; weaning; rearing; age; weight	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v017_2018q1.pdf?sfvrsn=2

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V020/2018Q1	Research project investigating nutritional strategies in early lactation to reduce the severity and duration of negative energy balance (NEB) and the associated negative metabolic status in high yielding dairy cows in a high input grass-based system	Dairy cow; fertility; nutrition; metabolic status; milk production; energy balance	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v020_2018q1.pdf?sfvrsn=2
V021/2018Q1	Research project investigating the effect of gut bacterial proteins upon physiological processes in mice and rats	Bile acids; microbiota; cholesterol; atherosclerosis; cancer; drug uptake; mice; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v021_2018q1.pdf?sfvrsn=2
V022/2018Q1	Research investigating if prebiotic supplementation (food supplement promoting good gut bacteria) administered via drinking water can prevent chronic intermittent hypoxia induced dysfunction in the rat	Hypoxia; prebiotics; cardiorespiratory; microbiota; hypertension; high blood pressure; sleep apnoea; rats	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v022_2018q1.pdf?sfvrsn=2
V023/2018Q1	Research project investigating rumen fermentation and milk production in dairy cows	Bovine; dairy; milk production; rumen fermentation; nutrition; feed additive; fresh grass; grass silage; rumen health	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v023_2018q1.pdf?sfvrsn=2
V024/2018Q1	Research project: determining the role of a reduced milking frequency in early lactation on dairy cow production and labour requirements	Once-a-day milking; early lactation; milking frequency; lactating cows; bovine; animal welfare	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v024_2018q1.pdf?sfvrsn=2

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V025/2018Q1	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/quarter-1-2018-ntp/v025_2018q1.pdf?sfvrsn=2
V026/2018Q1	A research study of the therapeutic efficacy of ursodeoxycholic acid and its metabolites in a mouse model of colitis	Ursodeoxycholic acid; lithocholic acid; bacterial metabolism; colitis; inflammatory bowel disease; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v026_2018q1.pdf?sfvrsn=2
V027/2018Q1	Research project investigating the role of the housing environment in bovine respiratory disease	Bovine; cattle; calf; dairy; pneumonia; respiratory disease; environmental conditions	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v027_2018q1.pdf?sfvrsn=2
V028/2018Q1	Research project investigating the circadian regulation of allergic asthma using mice	Asthma; circadian rhythm; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v028_2018q1.pdf?sfvrsn=2
V029/2018Q1	Research project investigating the effects of a ketogenic diet during pregnancy on the developing brain in mice: a pilot study	Ketogenic diet; brain development; pregnancy; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v029_2018q1.pdf?sfvrsn=2

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V030/2018Q1	Research project for the development and characterisation of microelectrochemical sensors and biosensors for real-time neurochemical monitoring in rats	Electroanalytical chemistry; sensor/biosensor; real-time monitoring; neurochemicals; brain metabolism; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v030_2018q1.pdf?sfvrsn=2
V031/2018Q1	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/quarter-1-2018-ntps/v031_2018q1.pdf?sfvrsn=2
V032/2018Q1	Research project to examine opioid-modulating drugs in the olfactory bulbectomized rat model of depression	Olfactory bulbectomy; rat; opioid-modulating drugs; antidepressant modelling; behaviour; neurochemistry; depression	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v032_2018q1.pdf?sfvrsn=2
V033/2018Q1	Research project: establishment of clinically relevant, orthotopic PDX models of brain malignancies using mice	Glioblastoma (GBM); patient derived xenograft (PDX); lung cancer derived brain cancer metastases (LCBM); brain malignancies; mouse; cancer	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v033_2018q1.pdf?sfvrsn=2
V034/2018Q1	Research project targeted at evaluation of the welfare and performance responses of calves to disbudding and castration procedures	Castration; disbudding, anaesthesia; calves; bovine	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v034_2018q1.pdf?sfvrsn=2

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V035/2018Q1	Research project on the therapeutic potential of anti-inflammatory drugs in a mouse model of diabetic complications	Mouse; diabetes; cardiovascular disease; kidney disease; anti-inflammatories	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v035_2018q1.pdf?sfvrsn=2
V036/2018Q1	Novel research project probing a novel target in pressure sensing nerve endings that are located in great blood vessels to control blood pressure in disease, using rats	Blood pressure control; hypertension; high blood pressure; spontaneously hypertensive rat; glutamate receptor; sensory nerves	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v036_2018q1.pdf?sfvrsn=2
V037/2018Q1	Research project investigating the effect of nano cavitation on smolt (salmon) welfare	Salmon; aquaculture; nano cavitation; sea lice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v037_2018q1.pdf?sfvrsn=2
V038/2018Q1	Research project for the assessment of a Nebulised Delivery System for Enhanced Therapeutics for Acute and Chronic Respiratory Disease in rats	Pneumonia; nebuliser; mesenchymal Stem Cells; recombinant SOD1; acute and chronic lung injury	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v038_2018q1.pdf?sfvrsn=2
V039/2018Q1	Research project investigating the effects of fish protein hydrolysate supplementation of plant protein-based diets in juvenile freshwater Atlantic salmon (<i>Salmo salar</i>)	Atlantic salmon; fish protein hydrolysate; growth; immunity; plant protein	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v039_2018q1.pdf?sfvrsn=2

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V040/2018Q1	Regulatory study to generate antisera using mice, rats, rabbits, goats, ferrets and guinea pigs	Antisera production; vaccines; allergens; high affinity antibodies; mice; rats; ferrets; rabbits; goats; guinea pigs	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v040_2018q1.pdf?sfvrsn=2
V041/2018Q1	Research project investigating the use of antibodies in sensing crop pathogens, using mice and chickens	Antibodies; potato virus y; <i>Rhynchosporium commune</i> ; diagnostics; chickens; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v041_2018q1.pdf?sfvrsn=2
V042/2018Q1	Research project on restoring immune homeostasis with mesenchymal stromal cells to attenuate late sepsis in rats	Cell therapy; pneumonia; abdominal infection; sepsis; rats	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v042_2018q1.pdf?sfvrsn=2
V043/2018Q1	Research project investigating Microbes in Cancer Therapy in mice	Infection; cancer; gene therapy; microbiome; microbiology; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v043_2018q1.pdf?sfvrsn=2
V044/2018Q1	Research project investigating <i>in situ</i> formed skin substitute in combination with stem cells for wound healing in mice	Wound healing; skin substitute; diabetes; stem cells; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v044_2018q1.pdf?sfvrsn=2
V045/2018Q1	Research project on the identification and characterisation of <i>Entobdella soleae</i> adhesive proteins using fish	Bioadhesive; ectoparasite; fish; <i>solea solea</i> ; <i>entobdella soleae</i> ; proteomics	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntp/v045_2018q1.pdf?sfvrsn=2

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V046/2018Q1	Research project evaluating a surgical wound closure system in rats	Wound closure system; wound healing; laparotomy; surgical complications; diabetes; obesity; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-1-2018-ntps/v046_2018q1.pdf?sfvrsn=2
