

Non-Technical Project Summary

Period of approval: Q4 October – December 2019

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2019Q4	Research project on the impact of diet on host susceptibility to infection with <i>Listeria monocytogenes</i> in mice	Mice; <i>Listeria</i> ; infection; microbiome; diet	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v001_2019q4.pdf?sfvrsn=2
V002/2019Q4	Research to understand the role of neuronal oscillations in health and disease using <i>ex vivo</i> rat and mouse tissue	Neuron; oscillations; interneuron; pharmacology; microcircuits; brain health; disease; <i>ex vivo</i> ; rat; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v002_2019q4.pdf?sfvrsn=2
V003/2019Q4	Research identifying the neuronal networks of microbiota-gut-brain communication through the vagus nerve in mice	Microbiota-gut-brain communication; vagus nerve; neuronal networks; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v003_2019q4.pdf?sfvrsn=2
V004/2019Q4	Regulatory project: determination of the potency value associated with the manufacture of specific neurotoxin products as required by the regulatory authorities using mice	Mouse; neurotoxin; potency test; medicinal products; comparability testing	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v004_2019q4.pdf?sfvrsn=2

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V005/2019Q4	Research project investigating microbiota-immune interactions in colorectal cancer using a mouse model	Microbiota; colorectal cancer; inflammation; biomarkers; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v005_2019q4.pdf?sfvrsn=2
V006/2019Q4	A research study to investigate feasibility of <i>Fmr1</i> knock-out as a transgenic mouse model to explore novel drugs for the treatment of Fragile X syndrome	<i>Fmr1</i> KO mice; Fragile X syndrome; GSK3beta inhibitors; microtubules; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v006_2019q4.pdf?sfvrsn=2
V007/2019Q4	Investigation of the effects of dietary supplementation with milk proteins and seaweed extracts on <i>Salmonella</i> shedding, gut microbiota and immunological status of weaned piglets after experimental infection with <i>Salmonella</i> Typhimurium	<i>Salmonella</i> ; seaweed extracts; milk proteins; microbiota; gut; weaned piglet	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v007_2019q4.pdf?sfvrsn=2
V008/2019Q4	Research towards the development of a carbohydrate functionalised collagen-based hydrogel targeting Parkinson's Disease using rats	Parkinson's disease; collagen; cell therapy; glycomic analysis; glycosylation modulators; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v008_2019q4.pdf?sfvrsn=2
V009/2019Q4	Research project to determine the efficacy and safety of veterinary vaccines for cats and dogs	Cats; dogs; efficacy; safety; regulatory; licensing; veterinary vaccines	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v009_2019q4.pdf?sfvrsn=2

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V010/2019Q4	Research project evaluating the effects of angiotensin peptides and non-peptide agonists in mice with multiple low dose-streptozotocin (MLD-STZ) induced diabetes	Diabetes; hyperglycaemia; angiotensin; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v010_2019q4.pdf?sfvrsn=2
V011/2019Q4	Fish Telemetry Research Project; Movement and behaviour of wild fish (thick-lipped mullet, thin-lipped mullet and twaite shad) in a large Irish estuary	Behaviour; telemetry; tracking; estuary; mullets; shad	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v011_2019q4.pdf?sfvrsn=2
V012/2019Q4	Research to evaluate Herd Environmental Sampling (HES) for detecting dairy herds infected with Johne's disease, and to compare HES to current methods of detecting infected herds	Bovine; dairy cow; Johne's disease; herd environmental sampling; <i>Mycobacterium avium</i> subspecies paratuberculosis; detection	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v012_2019q4.pdf?sfvrsn=2
V013/2019Q4	A research project to develop and test vaccines for the improved health and welfare of lumpfish in Irish aquaculture	Lumpfish (<i>Cyclopterus lumpus</i> L); cleaner fish; vaccine; bacteria; aquaculture	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v013_2019q4.pdf?sfvrsn=2
V014/2019Q4	Research into the potential for finishing hill bred store lambs on grazed grass and forage crops	Sheep; forage brassicas; store lambs; concentrate supplementation; average daily gain; grass	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v014_2019q4.pdf?sfvrsn=2

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V015/2019Q4	Research on the effectiveness of microbial delivery of infectious nucleic acid in cancer therapy using mice	Oncolytic virus; cancer therapy; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v015_2019q4.pdf?sfvrsn=2
V016/2019Q4	Research study into the potential for novel plant-derived nutraceuticals in treatment of chronic intestinal inflammatory diseases using mice	Farnesoid-X-Receptor; enterohepatic circulation; phytochemicals; nutraceuticals; inflammatory bowel disease; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v016_2019q4.pdf?sfvrsn=2
V017/2019Q4	Research into new clinically relevant mouse models of colorectal cancer subtypes using mice	Cancer; colorectal; PDX; advanced; tumour cells; tumour spread; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v017_2019q4.pdf?sfvrsn=2
V018/2019Q4	Research project to determine the potency value of a novel neurotoxin substance using mice	Neurotoxin; mouse; potency test	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v018_2019q4.pdf?sfvrsn=2
V019/2019Q4	Research: the effect of biorefined press cake silage on performance, rumen fermentation, nitrogen and phosphorus excretion in early lactation dairy cows	Dairy cows; biorefined silage; performance; rumen fermentation; nutrient excretion	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v019_2019q4.pdf?sfvrsn=2

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V020/2019Q4	Research project investigating the role of the microbiota-gut-brain axis in social anxiety disorder using mice	Mouse; microbiome; behaviour; social phobia; autism; anxiety	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v020_2019q4.pdf?sfvrsn=2
V021/2019Q4	Pre-clinical research into suitability of bio-active filled nerve guidance conduits and decellularised nerve grafts for peripheral nerve repair in large nerve defects using rabbits	Peripheral nerve injury; nerve guidance conduits; decellularised nerve graft; autograft; nerve regeneration; rabbits	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v021_2019q4.pdf?sfvrsn=2
V022/2019Q4	Research project: Instrumented Posterolateral Spinal Fusion in a Mouse Model: A Pilot Study	Spinal fusion; mice; model	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v022_2019q4.pdf?sfvrsn=2
V023/2019Q4	Research studies to determine the efficacy/tolerance/palatability of feed additives in dog/cat diet	Animal diet; additive; probiotic; gut health; efficacy; palatability; tolerance; dog; cat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v023_2019q4.pdf?sfvrsn=2
V024/2019Q4	Research project: Development of a model for <i>Bordetella pertussis</i> -induced Autism spectrum disorder (ASD) in mice	Autism Spectrum Disorder (ASD); <i>Bordetella pertussis</i> infection; colonization; BPZE1; anti-inflammatory; interleukins; brain; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v024_2019q4.pdf?sfvrsn=2

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V025/2019Q4	Effects of N-acetylcysteine on respiratory system performance in a mouse model of muscular dystrophy: research relevant to boosting respiratory function in neuromuscular disease	<i>Mdx</i> mouse; inspiratory pressure; diaphragm; antioxidant; inflammation; N-acetylcysteine; trans-diaphragmatic pressure	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v025_2019q4.pdf?sfvrsn=2
V026/2019Q4	Regulatory project to determine the potency value of an AAV Gene therapy for X-linked myotubular myopathy, using mice	Potency test; X-linked myotubular myopathy; adeno-associated virus (AAV); myotubularin (MTM); gene therapy; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v026_2019q4.pdf?sfvrsn=2
V027/2019Q4	Research project evaluating the mechanisms of protection of vaccines against the tropical infection melioidosis in mice	Mice; melioidosis; vaccine; infection; tropical disease; diabetes	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v027_2019q4.pdf?sfvrsn=2
V028/2019Q4	A research project investigating the effects of long-term stress experienced by female pigs during pregnancy on their performance during the birthing process and on the performance and welfare of their piglets	Pigs; welfare; gilts; pre-natal stress; piglets; post-natal; behaviour; microbiota; cortisol	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v028_2019q4.pdf?sfvrsn=2
V029/2019Q4	Research study on therapeutic options for degenerative ocular disease using mice	Retina; gene therapy; stem cells; Electroretinogram (ERG); optokinetics (OKR); mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v029_2019q4.pdf?sfvrsn=2

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V030/2019Q4	Research into the potential of microRNAs to delay or treat muscle wasting during ageing, amyotrophic lateral sclerosis (motor neuron disease) and cancer cachexia in mouse models	Muscle wasting; ageing; cachexia; motor neuron disease; sarcopenia; microRNA; antagomiR; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v030_2019q4.pdf?sfvrsn=2
V031/2019Q4	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/q4-2019--october---december/v031_2019q4.pdf?sfvrsn=2
V032/2019Q4	Research project evaluating the role of maternal adrenomedullin on the microbiome and gut health to prevent chronic intestinal disorders in mice	Inflammatory bowel disease; adrenomedullin; microbiota; breastmilk; gut; diet; metabolomics; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q4-2019--october---december/v032_2019q4.pdf?sfvrsn=2