

Non-Technical Project Summary

Period of approval: Q2 April-June 2018

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2018Q2	Research project investigating pain and the therapeutic effect of injectable hyaluronic acid hydrogel after intervertebral disc injury in rats	Intervertebral disc degeneration; spine; pain; biomaterials; rats	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v001_2018q2.pdf?sfvrsn=2
V002/2018Q2	Research project investigating disease progression of, and novel therapies for, Parkinson's disease in rat models	Parkinson's disease; genetic; environmental; inflammatory; endocannabinoid; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v002_2018q2.pdf?sfvrsn=2
V003/2018Q2	Research study to identify and evaluate novel disease modifying agents and cognitive enhancers in a rat developmental model of autism	Autism; rat model; cognition; drug development	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v003_2018q2.pdf?sfvrsn=2
V004/2018Q2	Research project: determination of the potency value associated with the manufacture of specific neurotoxin products as required by the regulatory authorities using mice	Neurotoxin; mouse; potency test; medicinal products	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v004_2018q2.pdf?sfvrsn=6
V005/2018Q2	Research project: investigation of oral delivery of selenium species in rats using nanoparticles made from food-derived sources	Rat; selenomethionine; selenocystine; nanoparticles; chitosan; instillation; nutrition	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v005_2018q2.pdf?sfvrsn=2

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V006/2018Q2	Research project: the development of insulin-loaded beads made from milk protein for Type 2 diabetics, and their performance in healthy and diabetic rats	Diabetes; insulin; oral; rat; encapsulation; milk protein	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v006_2018q2.pdf?sfvrsn=2
V007/2018Q2	Research project: therapeutic and functional antibody development for targeting pancreatic tumours in a mouse model of pancreatic cancer	Pancreatic cancer; monoclonal antibodies; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v007_2018q2.pdf?sfvrsn=2
V008/2018Q2	Research project: validation of the glucose tolerising effects of exogenous alpha-Melanocyte Stimulating Hormone (α -MSH) in mice	Diabetes; blood sugar control; hormones; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v008_2018q2.pdf?sfvrsn=2
V009/2018Q2	Research project assessing the over expression of human alpha synuclein in the rat substantia nigra, an animal model of Parkinson's disease	Rat; animal model; Parkinson's disease; alpha synuclein; behaviour; dopamine	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v009_2018q2.pdf?sfvrsn=2
V010/2018Q2	Research project: evaluation of new blood vessel formation induction potential of human umbilical cord derived CD362+ mesenchymal stem cells (UC-362-MSc) in combination with biomaterial platforms, using mice	Hind limb ischemia mouse model; cell-gel; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v010_2018q2.pdf?sfvrsn=2
V011/2018Q2	Research project: autostem mesenchymal stem/stromal cells (MSCs) in a mouse diabetic fracture model	Stem cells; culture automation; diabetes; femur; fractures; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v011_2018q2.pdf?sfvrsn=2

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V012/2018Q2	Research project: development of fibrin-in-fibrin platform for enhancing cell survival and improving functional recovery in 6-OHDA rat model	Parkinson's; fibrin; cell therapy; rat; glycomic analysis	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v012_2018q2.pdf?sfvrsn=2
V013/2018Q2	Research project investigating the influence of seminal plasma and sperm on the regulation of the female environment in cattle	<i>Bos Taurus</i> ; cattle fertility; reproductive immunology; seminal plasma; sperm	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v013_2018q2.pdf?sfvrsn=2
V014/2018Q2	Regulatory project to determine the potency value associated with the manufacture of specific neurotoxin products, using mice	Neurotoxin; mouse; potency test; medicinal products	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v014_2018q2.pdf?sfvrsn=2
V015/2018Q2	Research project investigating the effect of Milk-derived Fatty Globule Molecule (MFGM), a component of breastmilk, on 'early-life stress'-induced changes in cognitive performance, visceral sensitivity, enteric nervous system, immune and neuroendocrine systems, and on brain and gut physiology and function in early life and adulthood in rats	Stress; microbiota; cognition; rat; gastrointestinal	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v015_2018q2.pdf?sfvrsn=2
V016/2018Q2	Research project evaluating the role of IGF derived from macrophages in colon cancer progression and microbiome activity in mice	IGF; colon cancer; colitis; microbiota; macrophages; PDLIM2	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v016_2018q2.pdf?sfvrsn=2
V017/2018Q2	Research project: interrogating the antimetastatic action of the low molecular weight heparin tinzaprin in combination with simvastatin in an orthotopic surgical resection mouse model of triple negative breast cancer	Mice; breast cancer; metastasis; translational; heparin; statins; vascular permeability	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v017_2018q2.pdf?sfvrsn=2

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V018/2018Q2	Research project: new pharmacological therapy for stress-related psychiatric disorders using mice	Stress; cortisol; corticosterone; mice; antidepressant; depression; anxiety	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v018_2018q2.pdf?sfvrsn=2
V019/2018Q2	Parasite production project using rabbits	Tick; infest; harvest; rabbit; ectoparasite	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v019_2018q2.pdf?sfvrsn=2
V020/2018Q2	Research project: discovering how the immune system functions in stroke using a rodent model of the disease	Stroke; immunology; mouse; neurology; cerebrovascular	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v020_2018q2.pdf?sfvrsn=2
V021/2018Q2	Research project investigating molecular mechanisms underpinning host microbe interactions at the intestinal interface in mice	Infection; inflammation; mice; microbiota; innate immunity; behaviour	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v021_2018q2.pdf?sfvrsn=2
V022/2018Q2	Research project: the effect of slowly degrading neutral detergent fibre or amino acid supplementation on nutrient utilisation in grazing dairy cows	Dairy cow; grassland; grazing; milk production; supplementation	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v022_2018q2.pdf?sfvrsn=2
V023/2018Q2	Regulatory project: conduct of the animal (in vivo) phase of the influenza virus attenuation assay in ferrets and mice	Influenza; vaccine; ferrets; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v023_2018q2.pdf?sfvrsn=2
V024/2018Q2	Research project using telemetry to determine sea trout and Atlantic salmon migration routes, survival rates, and habitat usage in the nearshore marine environment	Sea trout; Atlantic salmon; telemetry; acoustic; satellite	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v024_2018q2.pdf?sfvrsn=2

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V025/2018Q2	Research project investigating nutrients as key determinants of DC-induced CD8 T cell responses in mice	Mouse; dendritic cells; T cells; nutrient; signal transduction	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v025_2018q2.pdf?sfvrsn=2
V026/2018Q2	Research project assessing manganese as a contrast agent for detection of pulmonary metastasis using mice	Cancer; metastasis; lung; manganese; MEMRI; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v026_2018q2.pdf?sfvrsn=2
V027/2018Q2	Research Project: development of upconverting-nanoparticles (UCNPs) luminescence imaging for monitoring of bacteria in the pathogenesis of intestinal bowel disease (IBD) in mice	Upconverting nanoparticles; bacteria; mice; <i>in vivo</i> imaging; bioluminescent; inflammatory bowel disease; <i>Citrobacter rodentium</i> ; colitis	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v027_2018q2.pdf?sfvrsn=2
V028/2018Q2	Research project: A menu for brain responses opposing stress induced alterations in cognition using mice	Gut-Brain axis; diet; stress; ageing; behaviour; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v028_2018q2.pdf?sfvrsn=2
V029/2018Q2	Regulatory project to determine the potency value for neurotoxin products using the mouse potency assay	Neurotoxin; mouse; potency test; medicinal products	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v029_2018q2.pdf?sfvrsn=2
V030/2018Q2	Research project: Comparative evaluation of new and existing active pharmaceutical ingredients for the control of cryptosporidiosis in calves	Neonatal calf diarrhoea; cryptosporidiosis; bovine; treatment; prevention	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v030_2018q2.pdf?sfvrsn=2
V031/2018Q2	Research study using acoustic telemetry to determine sea trout and Atlantic salmon survival rates, migration routes, migration	Sea trout; Atlantic salmon; telemetry	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v031_2018q2.pdf?sfvrsn=2

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	timing, and habitat usage in the marine environment		
V032/2018Q2	Research project: validation of a new method to identify and stimulate neuronal networks related to vagus nerve signalling using mice	Mice; vagus nerve; brain; behaviour; microbiota; depression	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v032_2018q2.pdf?sfvrsn=2
V033/2018Q2	Research project: the effect of incorporating white clover and other alternative forages into sheep grazed swards on the productivity of pasture based lamb production systems	Sheep; forage; intake; milk production; development; health	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v033_2018q2.pdf?sfvrsn=2
V034/2018Q2	Research project for future-proofing genetic improvement of the national dairy breeding programme	Bovine; dairy cows; milk production; nutrition; body condition; fertility	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v034_2018q2.pdf?sfvrsn=2
V035/2018Q2	Research study on immunological mechanisms in disease protection using mice	Vaccine; infectious disease; transcutaneous skin patch; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v035_2018q2.pdf?sfvrsn=2
V036/2018Q2	Regulatory project to qualify Reference Standard materials associated with the manufacture of specific neurotoxin products, using mice	Reference Standard material; neurotoxin; mouse; potency test; medicinal products	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v036_2018q2.pdf?sfvrsn=2
V037/2018Q2	Research project investigating the effects of iron oxide nanoparticles in the blood of rats	Cancer; iron oxide nanoparticles: rats; blood; immunotoxicity; haematotoxicity	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v037_2018q2.pdf?sfvrsn=2
V038/2018Q2	Regulatory project to determine the potency value associated with the manufacture of	Neurotoxin; mouse; potency test; medicinal products	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v038_2018q2.pdf?sfvrsn=4

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	specific neurotoxin products as required by the regulatory authorities		
V039/2018Q2	Research project to further investigate novel tissue engineering strategies for the repair of critically sized femoral defects using rats	Extracellular matrix; endochondral ossification; bone regeneration; 3D bioprinting; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v039_2018q2.pdf?sfvrsn=2
V040/2018Q2	Research project investigating cell and molecular mechanisms of neonatal seizures using mice and rats	Mouse; epilepsy; hippocampus; hypoxic ischemic encephalopathy	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v040_2018q2.pdf?sfvrsn=2
V041/2018Q2	Research project: alternative autumn and spring grassland management practices within intensive pasture-based spring milk production research studies in cows	Dairy cows; farm cover; performance; grass; behaviour; environment; welfare; wellbeing	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v041_2018q2.pdf?sfvrsn=2
V042/2018Q2	Research project for identification of drugs that can safely and effectively maintain visual function in models of inherited human visual defects cause by degeneration of the back of the eye, using fish	Inherited disease; drug therapy; visual defects; retinal degeneration; blindness; zebrafish	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v042_2018q2.pdf?sfvrsn=2
V043/2018Q2	Research project investigating molecular mechanisms and therapeutic for Rett Syndrome using mice	Rett Syndrome; Mecp2; insulin-like growth factor 1; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v043_2018q2.pdf?sfvrsn=2
V044/2018Q2	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	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v044_2018q2.pdf?sfvrsn=2
V045/2018Q2	Research project: the development of insulin-loaded beads made from milk protein for	Diabetes; insulin; oral; rat; encapsulation; milk protein	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntp/v045_2018q2.pdf?sfvrsn=2

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	Type 2 diabetics, and their performance in healthy and diabetic rats		
V046/2018Q2	Research project: the role of the kidneys in the development and maintenance of high blood pressure in a rat model of human sleep apnoea	Rat; intermittent hypoxia; kidney; hypertension; pharmacological treatment; renal nerve denervation; high blood pressure; sleep apnoea	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v046_2018q2.pdf?sfvrsn=2
V047/2018Q2	Research study investigating the role of mitochondrial uncoupling protein 3 (UCP3) in immune cell function in mice	Immune challenge; <i>Mus musculus</i> ; UCP3 knock-out mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/quarter-2-2018-ntps/v047_2018q2.pdf?sfvrsn=2