

## Non-Technical Project Summary

Period of approval: Q2 April – June 2019

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2019Q2	Research to assess the anti-inflammatory potential of novel drugs in rats	Rat; animal model; inflammation; drug development; novel drugs	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v001_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v001_2019q2.pdf?sfvrsn=2</a>
V002/2019Q2	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; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v002_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v002_2019q2.pdf?sfvrsn=2</a>
V003/2019Q2	Research project investigating the identification of genes involved in gastrointestinal disease in mice	Inflammatory bowel disease; gastrointestinal infection; inflammation; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v003_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v003_2019q2.pdf?sfvrsn=2</a>
V004/2019Q2	Research project investigating the context-dependent learning curve of horizontal and vertical network plasticity in the limbic system using rats and mice	Rats; mice; electrophysiology; optogenetics; hippocampus; hypothalamus; septum; memory	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v004_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v004_2019q2.pdf?sfvrsn=2</a>
V005/2019Q2	Research study involving the collection of turkey/chicken/guinea pig blood for use in <i>in vitro</i> assays	Turkeys; chickens; guinea pigs; blood sampling; <i>in vitro</i> assays; influenza; vaccines	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v005_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v005_2019q2.pdf?sfvrsn=2</a>

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V006/2019Q2	Research into the metabolic regulation of Natural Killer cell anti-viral responses in mice	Friend retrovirus; mouse <i>cytomegalovirus</i> ; immuno-metabolism; viral infection; Natural Killer cells; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v006_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v006_2019q2.pdf?sfvrsn=2</a>
V007/2019Q2	Research to understand the potential of stromal cells, isolated from people living with diabetes, to make bone in mice	Mouse; diabetes; bone; bone disease; fracture; MSC; mesenchymal stem cell	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v007_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v007_2019q2.pdf?sfvrsn=2</a>
V008/2019Q2	Research to determine the interactions of wild and translocated juvenile salmonids and the implications for management, with a focus on translocation as a management tool	Atlantic salmon; <i>Salmo salar</i> ; translocation; density dependent; hatcheries; stocking; conservation	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v008_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v008_2019q2.pdf?sfvrsn=2</a>
V009/2019Q2	Research to alter body weight gain in mouse offspring, from early life, by changing the mother's diet	Proteins; fat; obesity; diet; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v009_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v009_2019q2.pdf?sfvrsn=2</a>
V010/2019Q2	Research to investigate the effect of pre-grazing herbage supply and post-grazing sward height on beef animal growth and intake and on pasture productivity and quality	Beef cattle; grass-fed; sward height; pre-grazing yield; herbage mass; concentrates	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v010_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v010_2019q2.pdf?sfvrsn=2</a>
V011/2019Q2	Regulatory project to determine the potency value associated with the manufacture of specific neurotoxin products, using mice	Neurotoxin; potency test; medicinal products; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v011_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v011_2019q2.pdf?sfvrsn=2</a>
V012/2019Q2	Research to identify immunogenic HPV vaccines for cancer immunotherapy using mice	Vaccine; cervical cancer; therapy; HPV; T cell; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v012_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v012_2019q2.pdf?sfvrsn=2</a>

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V013/2019Q2	Research project to determine the efficacy of test Items/Investigational Veterinary Products for cats and dogs against ectoparasites and endoparasites	Cats; dogs; ectoparasites; endoparasites; efficacy; regulatory licensing; veterinary products	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v013_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v013_2019q2.pdf?sfvrsn=2</a>
V014/2019Q2	Research on the impact of concentrate crude protein levels on milk production and nitrogen excretion throughout lactation in dairy cows	Lactating dairy cows; crude protein level; milk production; nitrogen excretion	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v014_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v014_2019q2.pdf?sfvrsn=2</a>
V015/2019Q2	Research to compare the effectiveness of iAluRil and EpiMend at preventing <i>E.coli</i> adherence to the bladder wall in rats	Rat; bladder; urinary tract infection; <i>E.coli</i> ; catheter	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v015_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v015_2019q2.pdf?sfvrsn=2</a>
V016/2019Q2	Collection of animal blood for research and development in medical technology	Blood collection; research; medical technology; large mammals	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v016_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v016_2019q2.pdf?sfvrsn=2</a>
V017/2019Q2	Research project investigating the effects of bacteriophage on the microbiota-gut-brain axis using mice	Microbiota-gut-brain axis; bacteriophage; stress; anxiety; depression; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v017_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v017_2019q2.pdf?sfvrsn=2</a>
V018/2019Q2	Research investigation into the effect of feeding systems (pasture based or indoors) on dairy cow milk production, dairy cow feed intake and dairy cow methane production	Bovine; dairy cow; grassland; silage; feed quality; milk production; milk quality; methane production	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v018_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v018_2019q2.pdf?sfvrsn=2</a>
V019/2019Q2	Research aiming to prevent transmission of MRSA from livestock to humans through competitive exclusion, using pigs	Pig; <i>Staphylococcus aureus</i> ; LA-MRSA; exclusion; nasal; microbiota	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v019_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v019_2019q2.pdf?sfvrsn=2</a>

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V020/2019Q2	Research into advanced breast cancer in mouse models	Mouse; breast cancer; advanced disease; cancer spread; brain tumour; metastasis; treatment failure; new drug treatments; breast cancer subtype	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v020_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v020_2019q2.pdf?sfvrsn=2</a>
V021/2019Q2	Research into the potential beneficial effects of probiotic bacteria feeding in mice following antibiotic treatment or infection with disease-causing bacteria	Probiotic; <i>Bifidobacterium</i> ; antibiotic; disease; gut health; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v021_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v021_2019q2.pdf?sfvrsn=2</a>
V022/2019Q2	Regulatory project: conduct of the animal ( <i>in vivo</i> ) phase of the influenza virus attenuation assay in ferrets and mice	Influenza; vaccine; ferrets; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v022_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v022_2019q2.pdf?sfvrsn=2</a>
V023/2019Q2	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	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v023_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v023_2019q2.pdf?sfvrsn=2</a>
V024/2019Q2	Research study comparing Irish and New Zealand sheep genetics	Sheep; genetic index; validation	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v024_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v024_2019q2.pdf?sfvrsn=2</a>
V025/2019Q2	Research project targeted at evaluation of the welfare and performance responses of calves to disbudding and castration procedures	Castration; disbudding; anaesthesia; calves; bovine	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v025_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v025_2019q2.pdf?sfvrsn=2</a>

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V026/2019Q2	Research: Investigating the role of novel inflammatory proteins in cancer using mouse models	Colon; cancer; inflammation; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v026_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v026_2019q2.pdf?sfvrsn=2</a>
V027/2019Q2	Research project evaluating the protective potential of VTEC vaccine antigens in mice	Mice; vaccine; <i>E. coli</i> infection; diarrhoea; kidney damage; Verotoxigenic <i>E. coli</i>	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v027_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v027_2019q2.pdf?sfvrsn=2</a>
V028/2019Q2	Research to determine the immunoregulatory role of gut microbiota and neuroinflammation in the development and pathogenesis of Alzheimer's disease (AD) using rats	Alzheimer's disease; mild cognitive impairment; neuroinflammation; gut-brain axis; microbiota; faecal microbiota transplantation; rats	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v028_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v028_2019q2.pdf?sfvrsn=2</a>
V029/2019Q2	A research project characterising the immunomodulatory properties of sperm from high and low fertility bulls	Bovine; bull fertility; artificial insemination; inflammatory response; uterus; heifer	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v029_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v029_2019q2.pdf?sfvrsn=2</a>
V030/2019Q2	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	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v030_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v030_2019q2.pdf?sfvrsn=2</a>
V031/2019Q2	Research project to determine the therapeutic effectiveness of novel agents in clinically-relevant rodent models of bacterial pneumonia	Mesenchymal stem cells; cilengitide; Lipoxin A4; Alpha-1 Antitrypsin; pneumonia; ARDS; rat; mouse; rodent	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v031_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v031_2019q2.pdf?sfvrsn=2</a>

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V032/2019Q2	Research project into how gut microbes affect memory and other brain functions during ageing using rats	Ageing; gut microbes; memory; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v032_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v032_2019q2.pdf?sfvrsn=2</a>
V033/2019Q2	Collection of whole blood from animals (horses, cattle, sheep, pigs, dogs and rabbits) for use in laboratory and research procedures	Blood; blood products; microbiology; biomedical research; medical devices; horse; cattle; sheep; pig; dog; rabbit.	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v033_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v033_2019q2.pdf?sfvrsn=2</a>
V034/2019Q2	Research for the pre-clinical evaluation of TNF-like molecules for biological activity and as therapeutic targets in mouse models of inflammatory bowel disease (IBD)	IBD; colitis; anti-TNF $\alpha$ ; TNF-like molecules; mouse; neutralising antibodies	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v034_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v034_2019q2.pdf?sfvrsn=2</a>
V035/2019Q2	Research into the role of the role of TIR adapters and inflammatory caspases in a mouse model of retinal degeneration	Mouse; age-related macular degeneration (AMD); blindness; retina; immune system; cytokines; oxidative stress	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v035_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v035_2019q2.pdf?sfvrsn=2</a>
V036/2019Q2	Research into new treatments for addiction, anxiety, depression, and schizophrenia using rats	Rat; psychedelics; cannabinoids; addiction; anxiety; depression; schizophrenia	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v036_2019q2.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q2-2019-april-june/v036_2019q2.pdf?sfvrsn=2</a>