

## Non-Technical Project Summary

Period of approval: Q3 July-September 2018

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2018Q3	Research project evaluating the effect of vitamin supplementation on the neonatal immune response to mycobacterial infection using blood samples from cattle	Bovine tuberculosis; vitamin deficiency; neonatal immunology; calf	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v001_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v001_2018q3.pdf?sfvrsn=2</a>
V002/2018Q3	Research project investigating a treatment based on <i>Lactobacillus mucosae</i> and fibres on metabolic syndrome in a previously characterised pig model	Heart disease; metabolic syndrome; diastolic dysfunction; bile acids; gut microbiome; pig	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v002_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v002_2018q3.pdf?sfvrsn=2</a>
V003/2018Q3	Research to develop rat models of inflammation for use in drug discovery	Rat; animal model; inflammation; drug development	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v003_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v003_2018q3.pdf?sfvrsn=2</a>
V004/2018Q3	Regulatory 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	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v004_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v004_2018q3.pdf?sfvrsn=2</a>
V005/2018Q3	Research into the effects of various therapeutics on inflammatory pathways in equine synovitis models	Horse; inflammation; joint; arthritis; LPS; treatment	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v005_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v005_2018q3.pdf?sfvrsn=2</a>
V006/2018Q3	Research identifying new therapeutic approaches for metastatic colorectal cancer using clinically relevant orthotopic mouse models	Cancer; PDX; CRC; liver metastasis; in vitro; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v006_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v006_2018q3.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V007/2018Q3	Regulatory project for the determination of the potency value associated with the manufacture of anti-venom products using mice	Venom; anti-venom; neurotoxin; mouse; potency test; medicinal products; regulatory	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v007_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v007_2018q3.pdf?sfvrsn=2</a>
V008/2018Q3	Research investigating the neuroprotective effect of phospholipid enriched fractions on stress-induced parameters in mice	Phospholipids; gut-brain axis; stress; behaviour; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v008_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v008_2018q3.pdf?sfvrsn=2</a>
V009/2018Q3	Research aiming to discover a novel drug-releasing implant for the repair of bone injury, using rats	Bone repair; bone fracture; PLGA; skull; rat; rodent	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v009_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v009_2018q3.pdf?sfvrsn=2</a>
V010/2018Q3	Research project investigating the effect of early life nutrition on the molecular control of the hypothalamic-pituitary-testicular (HPT) axis in Holstein Friesian bull calves	Bovine; calf; puberty; calfhod-nutrition; reproduction; hormones; testicular development	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v010_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v010_2018q3.pdf?sfvrsn=2</a>
V011/2018Q3	Research project: the use of human and horse proteins as anti-inflammatory and tissue repair therapies in a mouse model of arthritis	Therapeutic protein; inflammation; arthritis; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v011_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v011_2018q3.pdf?sfvrsn=2</a>
V012/2018Q3	Research project comparing dairy cow performance using zero-grazing and conventional grazing methods in the early lactation period.	Holstein Friesian cows; zero-grazing; early lactation; nutrition; dairy	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v012_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v012_2018q3.pdf?sfvrsn=2</a>
V013/2018Q3	The development of a dual-hit mouse model to research the immune system and cognitive aspects of schizophrenia	Mouse; schizophrenia; maternal immune activation; post-weaning stress; dual-hit	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v013_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v013_2018q3.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V014/2018Q3	Research project investigating the role of the PYHIN proteins Irf204 and Irf207 in the pathogenesis and development of autoimmune disease using mice	Mouse; psoriasis; multiple sclerosis; EAE; PYHIN; Irf204; Irf207; autoimmunity; cytokines; chemokines	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v014_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v014_2018q3.pdf?sfvrsn=2</a>
V015/2018Q3	Research project: a feasibility study of endoscopic pyloric stent placement and subsequent removal in a porcine translational model	Stent; pig; stomach outlet; pyloric channel; removable; minimally invasive; endoscopy	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v015_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v015_2018q3.pdf?sfvrsn=2</a>
V016/2018Q3	Research project: A menu for brain responses opposing stress induced alterations in cognition using mice.	Gut-Brain axis; diet; stress; ageing; behaviour; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v016_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v016_2018q3.pdf?sfvrsn=2</a>
V017/2018Q3	Research project investigating the therapeutic potential of a novel human mesenchymal stromal cell preparation in sepsis-associated acute kidney injury using mice.	Mesenchymal stromal cell; sepsis; kidney injury; acute; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v017_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v017_2018q3.pdf?sfvrsn=2</a>
V018/2018Q3	Research project: strategies to enhance secretion of pro-angiogenic and/or anti-inflammatory factors in Orbc1™ for the treatment of critical limb ischemia using mice	Mesenchymal stromal cells; hind limb ischemia mouse model; critical limb ischemia; diabetes	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v018_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v018_2018q3.pdf?sfvrsn=2</a>
V019/2018Q3	A research project to characterise the signs of response and progression using a mouse model of melanoma metastasis after treatment with a combination of drugs called Nivolumab and Ipilimumab	Melanoma; metastasis; cancer; mouse; Nivolumab; Ipilimumab	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v019_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v019_2018q3.pdf?sfvrsn=2</a>

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V020/2018Q3	Regulatory project to qualify Reference Standard materials associated with the manufacture of specific neurotoxin products, using mice	Reference material; mouse; medicinal products Standard neurotoxin; potency test;	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v020_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v020_2018q3.pdf?sfvrsn=2</a>
V021/2018Q3	Research into gut phage as diagnostics and/or therapeutics in a mouse model of Inflammatory Bowel Disease, impact of virome transplant in human microbiota.	Microbiome; germ-free; mice; virome; phage; IBD	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v021_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v021_2018q3.pdf?sfvrsn=2</a>
V022/2018Q3	Research project investigating the role of novel signalling molecules in shaping immunity using mice	Immunology; innate signalling; immunity; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v022_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v022_2018q3.pdf?sfvrsn=2</a>
V023/2018Q3	Research into mechanisms that allow bacteria-host interactions and their potential contribution to gut health using mice	Probiotics; bifidobacteria; host-microbiota-interactions; mouse; colonisation	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v023_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v023_2018q3.pdf?sfvrsn=2</a>
V024/2018Q3	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	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v024_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v024_2018q3.pdf?sfvrsn=2</a>
V025/2018Q3	Research project investigating human exposure to cancer-causing fresh water toxins using chickens and mice.	Antibodies; bowel cancer; liver cancer; diagnostics; point-of-use; prevention; chickens; mice.	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v025_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v025_2018q3.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V026/2018Q3	Regulatory project to qualify Reference Standard materials for specific neurotoxin products using mice	Reference Standard material; neurotoxin; mouse; potency test; medicinal products	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v026_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v026_2018q3.pdf?sfvrsn=2</a>
V027/2018Q3	Research project: Investigating the molecular and cellular facilitators of spinal cord regeneration in <i>Xenopus laevis</i> (frogs)	<i>Xenopus laevis</i> ; spinal cord; injury; regeneration; frog; tadpole	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v027_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v027_2018q3.pdf?sfvrsn=2</a>
V028/2018Q3	Research project: Investigating the potential use of monoclonal IL-6R antibodies as a treatment for memory dysfunction in the mdx mouse model of Duchenne Muscular Dystrophy.	Interleukin-6; learning; memory; Duchenne muscular dystrophy; mdx mice.	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v028_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v028_2018q3.pdf?sfvrsn=2</a>
V029/2018Q3	Research project: effects of early-life antibiotics on behaviour and brain development in the mouse	Antibiotics; microbiota-gut-brain axis; behaviour; brain development; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v029_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v029_2018q3.pdf?sfvrsn=2</a>
V030/2018Q3	Research project assessing the use of human proteins as therapies in neurological disorders in mice	Therapeutic protein; immune modulation; motor neurone disease; multiple sclerosis; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v030_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v030_2018q3.pdf?sfvrsn=2</a>
V031/2018Q3	Regulatory study to determine the potency of hormone preparations using rats	Hormone; gonadotrophin; potency testing; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v031_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v031_2018q3.pdf?sfvrsn=2</a>
V032/2018Q3	Research study to investigate host immune responses to infection using mice	Bacteria; mice; T-cells; immunosuppression; memory	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v032_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v032_2018q3.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V033/2018Q3	Research project: Evaluating the use of mechanically activated extracellular vesicles to promote bone formation in a mouse model of osteoporosis and bone defect.	Osteoporosis; extracellular vesicles; bone formation; bone defect; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v033_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v033_2018q3.pdf?sfvrsn=2</a>
V034/2018Q3	Research into the host response of Atlantic salmon ( <i>Salmo salar</i> ) infected with <i>Neoparamoeba perurans</i> .	Atlantic salmon; amoebic gill disease; immunology; <i>Neoparamoeba perurans</i>	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v034_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v034_2018q3.pdf?sfvrsn=2</a>
V035/2018Q3	Research project investigating the efficacy of novel FcγRIIIa antagonists in a mouse model of immune thrombocytopenia	Immune thrombocytopenia; platelets; FcγRIIIa; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v035_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v035_2018q3.pdf?sfvrsn=2</a>
V036/2018Q3	Research project investigating psychedelic drugs as a potential novel treatment for drug addiction using rats	Drug addiction; cocaine; novel therapeutic; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v036_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v036_2018q3.pdf?sfvrsn=2</a>
V037/2018Q3	Breeding of germ-free mice for research	Germ-free; gnotobiotic; breeding; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v037_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v037_2018q3.pdf?sfvrsn=2</a>
V038/2018Q3	Research project: characterisation of the local responses to brain electrodes using rats	Deep brain stimulation; chronically implanted electrodes; bioimpedance; nerve inflammation	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v038_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v038_2018q3.pdf?sfvrsn=2</a>
V039/2018Q3	Research investigating sex differences in the effects of stress during puberty on susceptibility to develop depression in later life using a rat model	Stress; puberty; depression; anxiety; sex; rat; brain; hippocampus; neurogenesis	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v039_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v039_2018q3.pdf?sfvrsn=2</a>
V040/2018Q3	Research project investigating bifidobacterium-host interactions in the gut of mice	Bifidobacterium; intestine; probiotic; microbiome; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v040_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v040_2018q3.pdf?sfvrsn=2</a>

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V041/2018Q3	Research project: Investigating the effect of bacterial Bile Salt Hydrolase on gut development using mice	Mouse; germ-free; development; bile acids; microbiome	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v041_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v041_2018q3.pdf?sfvrsn=2</a>
V042/2018Q3	Research project: Investigating M. bovis-specific virulence mechanisms and the host-pathogen interaction in cattle	Bovine; human tuberculosis; macrophage; bacteria; virulence	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v042_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v042_2018q3.pdf?sfvrsn=2</a>
V043/2018Q3	Research project: the role of the heart in the development of high blood pressure in a rat model of human sleep-disordered breathing	Rat; high blood pressure; heart function; intermittent hypoxia; sleep apnoea	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v043_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v043_2018q3.pdf?sfvrsn=2</a>
V044/2018Q3	Research project on defining the role of novel signalling pathways in modulation of intestinal inflammation using mice	Innate signalling; cytokines; inflammatory bowel disease; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v044_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v044_2018q3.pdf?sfvrsn=2</a>
V045/2018Q3	Research project using pig corneas for corneal transplantation in a rabbit model	Cornea; transplantation; decellularisation; porcine; rabbit	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v045_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v045_2018q3.pdf?sfvrsn=2</a>
V046/2018Q3	Research project on the novel anti-neoplastic agent 1,4,5-Oxathiazinane-4,4-dioxide (OTD) in Triple Negative Breast Cancer using mice	Triple-negative breast cancer (TNBC); 1,4,5-Oxathiazinane-4,4-dioxide (OTD); breast cancer; BALB/c mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v046_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v046_2018q3.pdf?sfvrsn=2</a>
V047/2018Q3	Research project investigating a potential fish feed supplement to protect Atlantic salmon ( <i>Salmo salar</i> ) from the toxic effects of cnidae from the mauve stinger ( <i>Pelagia noctiluca</i> )	Aquaculture; mitigation; venom; <i>Salmo salar</i> ; <i>Pelagia noctiluca</i> ; fish feed supplement	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v047_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v047_2018q3.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V048/2018Q3	Research to identify new stromal cell-related immunotherapeutic targets for the treatment of metastatic colon cancer in mice	Mouse; stromal cells; metastatic colon cancer; immunotherapy; chemotherapy	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v048_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v048_2018q3.pdf?sfvrsn=2</a>
V049/2018Q3	Research project to validate the Replacement index for beef cows	Bovine; validation study; blood sampling; production efficiency; beef; replacement	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v049_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v049_2018q3.pdf?sfvrsn=2</a>
V050/2018Q3	Research project: enhancing the efficacy of treatment for Glioblastoma through the combination therapy of Bevacizumab and nanoparticle packaged siRNA therapy using mice	Glioblastoma; bevacizumab; combination therapy; immunotherapy; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v050_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v050_2018q3.pdf?sfvrsn=2</a>
V051/2018Q3	Research project for development of high-quality, high-specificity antibodies in chickens, to further enable the research into the reduction of hospital acquired 'super bug' infections, as an alternative approach to antibiotics and in human nutrition for disease prevention	Chicken; super-bug; antibody; infection; IgY; MRSA; disease prevention	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v051_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v051_2018q3.pdf?sfvrsn=2</a>
V052/2018Q3	Teaching and assessing clinical skills of undergraduate veterinary students using cattle	Clinical skills; cattle; embryo transfer; oestrous synchronisation	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v052_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v052_2018q3.pdf?sfvrsn=2</a>



REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V053/2018Q3	Research project: development of pyrrolopyrimidine-based therapies for the treatment of Autoimmune Disease using mice	Autoimmunity; psoriasis; Inflammatory bowel disease; Multiple Sclerosis; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v053_2018q3.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2018-july---september/v053_2018q3.pdf?sfvrsn=2</a>