

Non-Technical Project Summary

Period of approval: Q3 July – September 2020

REFERENCE NUMBER	PROJECT TITLE	KEYWORDS	LINK TO NTPS
V001/2020Q3	Research evaluating novel therapeutics in a model of autism using rats	Autism; neurodevelopmental disease; drug discovery; social behavioural cognitive deficit; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v001_2020q3.pdf?sfvrsn=2
V002/2020Q3	Research assisting the development of anti-inflammatory drugs to treat neurological diseases using mice	Mouse; inflammation; drug development; neurological disease	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v002_2020q3.pdf?sfvrsn=2
V003/2020Q3	Research into the feasibility and effectiveness of feedback controlled deep brain stimulation, also called closed-loop, in rats that show Parkinson's Disease symptoms	Deep brain stimulation; closed-loop; Parkinson's Disease; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v003_2020q3.pdf?sfvrsn=2
V004/2020Q3	Regulatory project to qualify Reference Standard materials for specific neurotoxin products using mice	Reference Standard material; neurotoxin; potency test; medicinal products; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v004_2020q3.pdf?sfvrsn=2
V005/2020Q3	Research to understand the impact of early life manipulation on brain wave activity and behaviour in the avian brain	Neuron; brain oscillations; interneuron; pharmacology; microcircuits; brain health; stress; chicken	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v005_2020q3.pdf?sfvrsn=2

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V006/2020Q3	Research project for the preparation of diagnostic materials for the diagnosis of diseases in ruminants and pigs	Ruminants; pigs; blood sample; vaccination; diagnosis; reagent	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v006_2020q3.pdf?sfvrsn=2
V007/2020Q3	A research study in mice to understand how vaccine efficacy is modulated by time of day	Mouse; circadian rhythms; molecular clock; macrophages; dendritic cells; vaccines; antigen; adjuvant	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v007_2020q3.pdf?sfvrsn=2
V008/2020Q3	Research project to uncover the molecular mechanisms underpinning the microbiome, intestinal immunity and health status, and therapeutic approaches using mice	Microbiome; immune system; gut; colitis; inflammation; infection; probiotic; prebiotic; diet; behaviour; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v008_2020q3.pdf?sfvrsn=2
V009/2020Q3	Research focused on a novel enzyme (BCAT) inhibitor in a mouse model of glioblastoma (GBM)	Glioblastoma; cancer; tumour; BCAT inhibitor; targeted therapy; surgery; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v009_2020q3.pdf?sfvrsn=2
V010/2020Q3	Research study to investigate the potential of BMP2 overexpression therapy in a rat model of Parkinson's disease	Parkinson's disease; bone morphogenetic protein; neurodegeneration; alpha-synuclein; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v010_2020q3.pdf?sfvrsn=2
V011/2020Q3	The endogenous AT2 receptor agonist EA as a new therapeutic strategy in the treatment of acute lung injury as a model for COVID-19 related acute respiratory distress syndrome (ARDS)	COVID-19; ARDS; acute lung injury; barrier function; renin-angiotensin system; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v011_2020q3.pdf?sfvrsn=2

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V012/2020Q3	Research to collect tissue for genetic identification of models of inherited blindness in zebrafish	Zebrafish; fin-clipping; tissue collection; mutation; blindness; gene-editing; transgenic; DNA	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v012_2020q3.pdf?sfvrsn=2
V013/2020Q3	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	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v013_2020q3.pdf?sfvrsn=2
V014/2020Q3	Research into the development of new fluorescent probes in mice, for imaging human brain tumours	Mouse; cancer; tumour; brain; glioblastoma; fluorescent probe; imaging	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v014_2020q3.pdf?sfvrsn=2
V015/2020Q3	Research project to assess the effects of Neurotoxin Type A on lower limb function using the Digit Abduction Score (DAS) Assay in mice	Neurotoxin; mouse; digit abduction score	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v015_2020q3.pdf?sfvrsn=2
V016/2020Q3	Research using genetic engineering to generate models of inherited blindness in zebrafish	Zebrafish; mutation; CRISPR; blindness; gene-editing; vision; retinal structure; Tol2; transgenic	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v016_2020q3.pdf?sfvrsn=2
V017/2020Q3	Research project to determine the pharmacokinetic/bioequivalence of investigational veterinary products for cats and dogs	Cats; dogs; drug development; veterinary products; pharmacokinetics; bioequivalence	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v017_2020q3.pdf?sfvrsn=2

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V018/2020Q3	Research into improving animal production and reducing environmental impact through manipulation of the rumen microbiome of sheep and cattle	Cattle; sheep; methane; microbiome; rumen fluid; nitrogen excretion	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v018_2020q3.pdf?sfvrsn=2
V019/2020Q3	Teaching and assessing competency in clinical skills involving cattle relevant to veterinary degree programmes	Veterinary; teaching; clinical skills; cattle	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v019_2020q3.pdf?sfvrsn=2
V020/2020Q3	Research into mechanisms of early life stress-induced dysfunction of the gut-brain axis in rats in both dams and offspring	Rat; early life stress; maternal separation; microbiota-gut-brain axis	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v020_2020q3.pdf?sfvrsn=2
V021/2020Q3	Research on therapeutic correction of the neuropathologies associated with Duchenne's Muscular Dystrophy using mice	Muscular dystrophy; neurodevelopment; cognition; behaviour; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v021_2020q3.pdf?sfvrsn=2
V022/2020Q3	Research project to determine the potency value of a novel neurotoxin substance using mice	Neurotoxin; potency test; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v022_2020q3.pdf?sfvrsn=2
V023/2020Q3	Research to develop potent, easy-to-administer vaccine systems for WHO priority diseases using mice	Vaccine; immune; pandemic; SARS-CoV2; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v023_2020q3.pdf?sfvrsn=2

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V024/2020Q3	Research study investigating T cells in the immune response to respiratory pathogens to inform the design of vaccines against <i>Bordetella pertussis</i> and COVID-19 using mice	Immunology; T cell; infection; vaccine; respiratory pathogen; <i>Bordetella pertussis</i> ; SARS-coronavirus-2; COVID-19; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v024_2020q3.pdf?sfvrsn=2
V025/2020Q3	Regulatory study involving safety, toxicity and pyrogen tests for specific medicinal products using mice, rats, rabbits, guinea pigs and hamsters	Safety; toxicity; mouse; guinea pig; rabbit; rat; hamster	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v025_2020q3.pdf?sfvrsn=2
V026/2020Q3	Research project on the role of the microbiome as a regulator of the reward pathways in rodents	Drug addiction; cocaine; microbiota-gut-brain axis; sociability; conditioned place preference; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v026_2020q3.pdf?sfvrsn=2
V027/2020Q3	Research investigating the molecular and cellular mechanisms underpinning systemic dissemination of the gut symbiont <i>Bifidobacterium breve</i> using mice	Mice; gut microbiota; Bifidobacteria; immune system; phagocyte; dissemination; inflammation	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v027_2020q3.pdf?sfvrsn=2
V028/2020Q3	Research study investigating mouse models of Haemophilia A	Haemophilia A; coagulation; bleeding disorder; FVIII; inhibitor; haemophilic arthritis; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v028_2020q3.pdf?sfvrsn=2

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V029/2020Q3	Research assessing the impact of anti-inflammatory compounds on Adeno-associated viral vector generated preclinical models of Parkinson's disease in rats	Rat; animal model; Parkinson's disease; alpha-synuclein; behaviour; dopamine	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v029_2020q3.pdf?sfvrsn=2
V030/2020Q3	Research assessing the efficacy of anti-inflammatory compounds in a clinically relevant rat model of synucleinopathy	Alpha synuclein; Parkinson's disease; neurodegeneration; inflammation; neuroprotection; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v030_2020q3.pdf?sfvrsn=2
V031/2020Q3	Research project investigating the role of forebrain hypocholinergia in neuroinflammatory and cognitive consequences of systemic inflammation using mice	Systemic inflammation; cognitive dysfunction; delirium; dementia; cholinergic; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v031_2020q3.pdf?sfvrsn=2
V032/2020Q3	Research project developing gene therapies for recessively inherited RP2- and TULP1-linked retinopathies using mice	Gene therapy; RP2; RP14; AAV; retina; mice	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v032_2020q3.pdf?sfvrsn=2
V033/2020Q3	Research to investigate the potential of HDAC inhibition therapy in a rat model of Parkinson's disease	Parkinson's disease; histone deacetylase; neurodegeneration; alpha-synuclein; rat	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v033_2020q3.pdf?sfvrsn=2
V034/2020Q3	Regulatory project for the safety and efficacy testing of a vascular closure medical device using pigs	Vascular; closure device; implantation; pig	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v034_2020q3.pdf?sfvrsn=2

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V035/2020Q3	Research on how probiotic bacteria give protection against aspirin associated stomach ulcers using mice	Mouse; gastrointestinal ulceration; acetyl salicylic acid; aspirin; <i>Bifidobacterium</i> ; lactic acid bacteria	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v035_2020q3.pdf?sfvrsn=2
V036/2020Q3	Research into the difference in high blood pressure in the lung between male and female mice	Mouse; lung; blood pressure; male; female	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v036_2020q3.pdf?sfvrsn=2
V037/2020Q3	Investigating the importance of iron for Natural Killer cell anti-viral responses using mice	Friend retrovirus; iron deficiency; immunometabolism; mouse	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v037_2020q3.pdf?sfvrsn=2
V038/2020Q3	Project to establish a rumen fistulated beef cattle resource to support novel rumen metabolism research	Cattle; rumen cannulation (fistulation); rumen metabolism; rumen digestion	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v038_2020q3.pdf?sfvrsn=2
V039/2020Q3	Research into the treatment of inflammation in spinal cord contusion injury in rats	Rat; spinal cord contusion injury; inflammation; hypolipidaemic compound; nerve cell repair	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v039_2020q3.pdf?sfvrsn=2

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V040/2020Q3	Research into the swimming performance of wild fish species	Swimming performance; tagging; ecology; conservation; management; sharks; rays; teleosts; fish	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v040_2020q3.pdf?sfvrsn=2
V041/2020Q3	Research project assessing the influence of a high fibre diet on the development of lung injury in mice	Mice; pulmonary fibrosis; dietary fibre	http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q3-2020-july-september/v041_2020q3.pdf?sfvrsn=2