

## Non-Technical Project Summary

REFERENCE NUMBER	PROJECT TITLE	MONTH OF APPROVAL	KEYWORDS	LINK TO NTPS
V001/2014Q1	Research investigation to examine the effect of liver fluke infection on the immune response to the bacteria that causes bovine tuberculosis in cattle	January 2014	<i>Fasciola hepatica</i> ; liver fluke, bovine tuberculosis; immunology; cattle	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v001_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v001_2014q1.pdf?sfvrsn=2</a>
V002/2014Q1	Research study investigating seals and birds as indicators of ecosystem health and impacts from human activities	January 2014	Seal; bird; telemetry; ecology; renewable energy	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v002_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v002_2014q1.pdf?sfvrsn=2</a>
V003/2014Q1	Research project investigating the effect of nefiracetam and levetiracetam on a cuprizone model of Multiple Sclerosis using mice	January 2014	Remyelination; cuprizone; nefiracetam; levetiracetam; multiple sclerosis	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v003_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v003_2014q1.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	MONTH OF APPROVAL	KEYWORDS	LINK TO NTPS
V004/2014Q1	Research study investigating the immune response to novel vaccines against <i>Rhodococcus equi</i> infection in horses	January 2014	Vaccine; antibody; immune response; <i>Rhodococcus equi</i> infection; horses	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v004_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v004_2014q1.pdf?sfvrsn=2</a>
V005/2014Q1	Research investigation into the interaction between <i>Clostridium difficile</i> and the gut epithelium using mice	January 2014	<i>Clostridium difficile</i> infection; antibiotic treatment; gut epithelium; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v005_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v005_2014q1.pdf?sfvrsn=2</a>
V006/2014Q1	Research study investigating the effect of nefiracetam and levetiracetam on a mouse model of Multiple Sclerosis, termed 'Experimental Autoimmune Encephalomyelitis (EAE)	January 2014	Multiple sclerosis; remyelination; EAE; nefiracetam; levetiracetam; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v006_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v006_2014q1.pdf?sfvrsn=2</a>

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V007/2014Q1	Research study to validate a new maternal beef index in cattle	January 2014	Maternal index; genetics; feed efficiency; beef cows	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v007_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v007_2014q1.pdf?sfvrsn=2</a>
V008/2014Q1	Research project investigating the effect of excessive iodine intake by the ewe on the immune status of her lambs	January 2014	Ovine; nutrition; iodine; immunoglobulin; absorption	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v008_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v008_2014q1.pdf?sfvrsn=2</a>
V009/2014Q1	Research investigation into Schmallenberg virus in Irish dairy herds	January 2014	Schmallenberg; virus; dairy cattle; Ireland	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v009_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v009_2014q1.pdf?sfvrsn=2</a>
V010/2014Q1	Research study investigating strategies to prevent mastitis in Irish dairy farms with an aim to reducing reliance on antibiotics	February 2014	Startvac vaccine; dairy heifers; <i>Staphylococcus</i> ; <i>Escherichia coli</i> ; mastitis	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v010_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v010_2014q1.pdf?sfvrsn=2</a>

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V011/2014Q1	Research investigation into the role of specific proteins and cellular energy balance in stroke related injury and death of motor neurones in mice	February 2014	Mouse; excitotoxicity; neurons; stroke	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v011_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v011_2014q1.pdf?sfvrsn=2</a>
V012/2014Q1	Research study investigating hypoallergenic and immunomodulatory hydrolysates for infants diagnosed with cow's milk protein allergy	February 2014	Cow's milk allergy; infant nutrition; immunotherapy; hydrolysates	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v012_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v012_2014q1.pdf?sfvrsn=2</a>
V013/2014Q1	Research investigation into the molecular control of energetic efficiency in cattle	February 2014	Cattle; feed efficiency; RFI; mitochondria; gene expression	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v013_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v013_2014q1.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	MONTH OF APPROVAL	KEYWORDS	LINK TO NTPS
V014/2014Q1	Research study elucidating the potential role of erythropoietin in the treatment of emphysema using mice	February 2014	Emphysema; lung disease; erythropoietin; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v014_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v014_2014q1.pdf?sfvrsn=2</a>
V015/2014Q1	Research investigation into childbirth injuries causing faecal incontinence using a rat model and investigation of nerve stimulation treatment for same	February 2014	Faecal incontinence; childbirth; sacral nerve stimulation; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v015_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v015_2014q1.pdf?sfvrsn=2</a>
V016/2014Q1	Research study investigating the development of a "smart" needle integrated with an impedance sensor to determine nerve proximity for regional anaesthetic (nerve blocking) procedures in pigs	February 2014	Bioimpedance; ultrasound guided peripheral nerve block; smart needle; regional anaesthesia; pigs	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v016_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v016_2014q1.pdf?sfvrsn=2</a>

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V017/2014Q1	Research project investigating the treatment of salmon for amoebic gill disease (AGD)	February 2014	Salmon; amoeba; gills; disease; treatment	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v017_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v017_2014q1.pdf?sfvrsn=2</a>
V018/2014Q1	Research project to monitor the potential of ghrelin agonists to modulate inflammation in a murine model	February 2014	Inflammation; ghrelin agonists; mouse	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v018_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v018_2014q1.pdf?sfvrsn=2</a>
V019/2014Q1	Research study measuring Interleukin 8 expression in calves in response to bacterial lipopolysaccharide (LPS) and lipoteichoic acid (LTA) (This is an amendment to project reference number: V015/2013Q4)	February 2014	Lipopolysaccharide; Lipoteichoic acid; interleukin 8; calves	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v019_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v019_2014q1.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	MONTH OF APPROVAL	KEYWORDS	LINK TO NTPS
V020/2014Q1	Research study investigating the development of new treatments for heart failure using a mouse model of cardiac pressure overload	February 2014	Heart failure; fibrosis; epigenetics; mouse; trans-aortic constriction	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v020_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v020_2014q1.pdf?sfvrsn=2</a>
V021/2014Q1	Research study investigating the effect of sex on light exposure at night and mood using mice	February 2014	Circadian clock; depression; light; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v021_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v021_2014q1.pdf?sfvrsn=2</a>
V022/2014Q1	Research study investigating novel dietary strategies to manipulate the carcass composition of young dairy bred beef bulls managed under a pasture based production system	February 2014	Beef; calves; nutrition; carcass; fat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v022_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v022_2014q1.pdf?sfvrsn=2</a>

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V023/2014Q1	Research investigation into the role of caspase-11 during host defence against infection and inflammatory disease in mice	February 2014	Inflammatory bowel disease; infection; colorectal cancer; mice; caspase-11	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v023_2014q1d615012697826eee9b55ff00008c97d0.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v023_2014q1d615012697826eee9b55ff00008c97d0.pdf?sfvrsn=2</a>
V024/2014Q1	Research study investigating antibody-targeted cyclodextrins for siRNA-based therapy of acute myeloid leukaemia using mice	February 2014	siRNA delivery; acute myeloid leukaemia; cyclodextrins; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v024_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v024_2014q1.pdf?sfvrsn=2</a>
V025/2014Q1	Research investigation into the modulation of inflammatory disease by novel anti-inflammatory substances in mice	February 2014	Inflammatory bowel disease; ulcerative colitis; anti-inflammatory substances; immune response; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v025_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v025_2014q1.pdf?sfvrsn=2</a>
V026/2014Q1	Research project to understand the intake and milk production potential of ewes during early lactation	February 2014	Intake; lactation; rumen function; nutrient metabolism; ewes	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v026_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v026_2014q1.pdf?sfvrsn=2</a>



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V027/2014Q1	Research investigation to explore the feasibility, tolerability and pharmacokinetics of novel oral formulations of SPK843 and AmpB in rodents	February 2014	Rat; oral; anti-fungal; trypanosomiasis; nanoparticles	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v027_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v027_2014q1.pdf?sfvrsn=2</a>
V028/2014Q1	Research study investigating the molecular control of the hypothalamic-pituitary-testicular axis in the bull	February 2014	Bulls; HPT axis; gene expression; puberty	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v028_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v028_2014q1.pdf?sfvrsn=2</a>
V029/2014Q1	Research study investigating the effects of bacterial load in colostrum on IgG absorption in neonatal dairy calves	February 2014	Calf; colostrum; immunoglobulin G; microbiota	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v029_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v029_2014q1.pdf?sfvrsn=2</a>

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V030/2014Q1	Research investigation into the effects of novel pyrrolobenzoxazine (PBOX) compounds on tumour growth in a mouse model of neuroblastoma	March 2014	Neuroblastoma; microtubule targeting agents; carboplatin; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v030_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v030_2014q1.pdf?sfvrsn=2</a>
V031/2014Q1	Research study to develop a novel humanised mouse model of cow's milk allergy to assess functional foods	March 2014	Humanised mouse model; cow's milk protein allergy	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v031_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v031_2014q1.pdf?sfvrsn=2</a>
V032/2014Q1	Research study investigating the pathogenesis and treatment of experimental glomerulonephritis	March 2014	Rat; autoimmune; kidney; vasculitis; glomerulonephritis	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v032_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v032_2014q1.pdf?sfvrsn=2</a>
V033/2014Q1	Research investigation of <i>in vivo</i> imaging of cellular therapies in a humanised mouse model of Graft versus Host Disease	March 2014	Humanised mouse model; graft versus host disease; <i>in vivo</i> imaging; cellular therapy	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v033_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v033_2014q1.pdf?sfvrsn=2</a>

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V034/2014Q1	Research investigation into the effects of feed allowance and duration of feeding level on dairy cow health, welfare and milk production	March 2014	Dairy cow; early lactation; dry matter intake; feeding allowance	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v034_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v034_2014q1.pdf?sfvrsn=2</a>
V035/2014Q1	Research investigation into a radical approach for improved glaucoma treatment in mice	March 2014	Glaucoma; Schlemm's Canal; tight junction proteins; intraocular pressure; RNAi	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v035_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v035_2014q1.pdf?sfvrsn=2</a>
V036/2014Q1	Research investigation into the response in milk production and composition and rumen function per unit of energy of forage maize fed to dairy cows at grass	March 2014	Dairy cows; forage maize; milk composition; rumen function	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v036_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v036_2014q1.pdf?sfvrsn=2</a>

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V037/2014Q1	Research study on the influence of bovine viral diarrhoea vaccination on antibody responses in serum and milk of naive dairy cattle	March 2014	Bovine viral diarrhoea; vaccination; antibodies; cattle	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v037_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v037_2014q1.pdf?sfvrsn=2</a>
V038/2014Q1	Research study using acoustic telemetry to determine sea trout and Atlantic salmon survival rates, migration routes, migration timing, and habitat usage in the marine environment	March 2014	Sea trout; Atlantic salmon; telemetry	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v038_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v038_2014q1.pdf?sfvrsn=2</a>
V039/2014Q1	Research study examining the rumen microbiome in early life and during dietary transition in cattle	March 2014	Calves; rumen microbiome; dietary transition; nutrition	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v039_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v039_2014q1.pdf?sfvrsn=2</a>

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V040/2014Q1	Research study investigating the development of a novel polymer free stent platform and preclinical evaluation of efficacy and safety in a porcine model	March 2014	Coronary stent; polymer free stent; in stent restenosis; cardiovascular disease; pigs	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v040_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v040_2014q1.pdf?sfvrsn=2</a>
V041/2014Q1	Research project exploring AAV-delivered gene therapies for Leber Hereditary Optic Neuropathy (LHON) using mice	March 2014	Gene therapy; mitochondrial disease; LHON; AAV; mice	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v041_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v041_2014q1.pdf?sfvrsn=2</a>
V042/2014Q1	Research investigation into pre-breeding progesterone and early embryo mortality in lactating dairy cows	March 2014	Dairy cow; reproduction; embryo mortality; progesterone	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v042_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v042_2014q1.pdf?sfvrsn=2</a>
V043/2014Q1	Research study to establish drug detection times in horses	March 2014	Drug administration; blood/urine sampling; equine	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v043_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v043_2014q1.pdf?sfvrsn=2</a>

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V044/2014Q1	Research study involving the collection of turkey/chicken blood for use <i>in vitro</i> assay	March 2014	Blood sampling; turkeys; chickens; <i>in vitro</i> assays	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v044_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v044_2014q1.pdf?sfvrsn=2</a>
V045/2014Q1	Research project to determine the efficacy of novel flea tablets for dogs against <i>Ctenocephalides felis</i> infestations in growing dogs	March 2014	Fleas; canine; <i>Ctenocephalides felis</i>	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v045_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v045_2014q1.pdf?sfvrsn=2</a>
V046/2014Q1	Research project to determine the efficacy of a novel topical tick medication to treat <i>Rhipicephalus sanguineus</i> tick infestations in growing dogs	March 2014	Ticks; canine; <i>Rhipicephalus sanguineus</i>	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v046_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v046_2014q1.pdf?sfvrsn=2</a>
V047/2014Q1	Research project investigating the axonal transport of therapeutic neurotoxins in rats	January 2014	Neurotherapeutics; hypersecretory disorders; neurotoxins; intracellular transport; rats	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v047_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v047_2014q1.pdf?sfvrsn=2</a>

REFERENCE NUMBER	PROJECT TITLE	MONTH OF APPROVAL	KEYWORDS	LINK TO NTPS
V048/2014Q1	Research investigation into the mechanistic basis for pain relieving and anti-inflammatory effects of SNARE-cleaving toxins in the rat	January 2014	Botulinum toxin; neurotherapeutics; chronic pain; inflammation; rat	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v048_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v048_2014q1.pdf?sfvrsn=2</a>
V049/2014Q1	Research investigation into the effects of Clostridial neurotoxins on neurotransmission and downstream functions in the salivary glands of mice and rats	January 2014	Botulinum toxins; salivary gland; neurotransmission	<a href="http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v049_2014q1.pdf?sfvrsn=2">http://www.hpra.ie/docs/default-source/vet---non-technical-project-summaries-folder/q1-2014-jan---march/v049_2014q1.pdf?sfvrsn=2</a>