Postgraduate Research Project titles

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| **Research Projects - commenced 2019** |
| Stock assessment and management plan for European Eels in the River Foyle catchment |
| Using parasite egg-derived data to guide on-farm treatment and counter drug resistance |
| Identification, characterisation and fate of bacterial pathogens in a range of organic manures applied to arable soils in Northern Ireland |
| Managing biosecurity risks from drug-resistant parasites and other diseases in deer |
| Microbial remediation of microplastics within peat, soils, and coastal and riverine sediments |
| Evaluation of local farm animal veterinary practitioners and dairy farmer's knowledge of and attitudes towards AMR and the challenges they may face in carrying out their role to control the spread of AMR in Northern Ireland |
| Identification of unique qualities of extensively-reared Northern Ireland red meat |
| The distribution, abundance and impacts of plastic pollution in Northern Ireland’s freshwater ecosystems |
| Assessing the resilience of conservation objectives to climate change predictions for the critically endangered *D. intermedia* |
| Understanding the effects of leaving pigs with intact tails on measures of animal health, welfare and productivity |
| Biochar and soil health: a combined laboratory and field experimental, ecosystem-based approach, to test impacts on the sustainability of grassland production |
| Can Parasitic Worm Infections be Exploited to Alleviate On-Farm Antimicrobial Resistance? |

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| **Research Projects - commenced 2018** |
| Innovative housing and environment management to promote calf health, welfare and performance |
| A Platform For Precision Phenotyping of Farmed Animals |
| The impact of microplastics on commercially important fisheries species in Northern Ireland |
| Isolation & ageing in family farm men across their life-course in Northern Ireland: Challenges for ‘remaining in & leaving’ family farming |
| Assessing the effectiveness of blue whiting protein on satiety and its use as a functional ingredient within the diet |
| Behavioural modification of Nephrops and whiting through artificially light adjusted capturing processes |
| Development and Trial of a Novel Bovine Respiratory Syncytial Virus Pre-Fusion Protein Recombinant Vaccine |
| Identification of parasite-derived antibacterial agents to tackle emerging antimicrobial resistance and reduce antibiotic use in livestock |
| Developing a multidisciplinary understanding of antimicrobial resistance on UK farms |
| Elucidating the role of badger movements and behaviour using remote sensing technologies on the potential routes of bovine tuberculosis infection |
| Quantifying and evaluating factors influencing the socialisation period of puppies reared in commercial breeding environments |
| A study of Chicken Astrovirus Pathobiology in the Emerging Disease "White Chicks" |
| Novel approaches to avoiding spoilage of stored grain and silage: Minimizing fungal and bacterial spoilage; mycotoxin-production; and pathogenic bacteria |

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| **Research Projects - commenced 2017** |
| Investigating species of conservation concern to predict ecosystem service delivery and its impact on production value of sheep hill farms in Less Favoured Areas (LFAs) in Northern Ireland post-Brexit |
| Development of systems to improve the utilisation of forage and grass in beef production systems |
| Maximising the benefits of cover crops through optimising the management of rotations, organic manures and Nitrogen fertilisers |
| Estimating the relative importance of apex predator and mesopredator interactions for the provision of marine ecosystem services |
| Identifying, understanding and harnessing the beneficial impact of genotype by nutritional interactions to optimise the performance and meat quality of low weight pigs |
| Measuring the impacts of Social Farming on participants and farming families in Northern Ireland |
| Effects of phytogenics on intestinal pathogenic bacteria and microbiota of livestock non-ruminants |
| Effects of sheep grazing strategies on animal performance and grass production, utilisation, and quality |
| An exploration of how small agri-food businesses can exploit big data market information to innovate with their products and create competitive advantage |
| Biostimulant strategies to enhance grass growth |
| Using novel precision technology to measure individual dry matter intake (DMI) of dairy cattle at pasture |
| Understanding the epidemiology of bovine TB and potential routes of infection by elucidation of fine-scale badger movement and behaviour |