Protecting Albatross on Gough Island

LIVESTOCK KEEPERS at the Parliament

Princess Royal supports research

www.moredun.org.uk
Veterinary Society Conference in Mull this autumn. This new blood test will enable the detection of infested animals at an early stage of infection and before the onset of clinical symptoms which will be important in controlling this important disease of sheep (page 1).

We were delighted to welcome HRH The Princess Royal to Moredun to a special event held to celebrate Scotland’s Year of Food and Drink where we showcased research highlights from Moredun and our collaborators contributing to the food industry (page 8). I am also very pleased to announce our renewal of the successful collaboration with the National Sheep Association. This partnership has greatly benefitted Moredun by improving our connectivity with sheep farmers across the UK (page 1). Working in collaboration with the Crown Estate, Moredun organised a beef cattle health event held at Auchorachan Farm, Glenlivet by kind permission of the Durno family (page 13).

Our science engagement project LIVESTOCK KEEPERS has really caught the imagination of the public and we enjoyed a very special event held at the Scottish Parliament (pages 6-7).

We hope that you enjoy this issue of the magazine and thank you for your continued support.

A very warm welcome to the Autumn/Winter edition of the Moredun Magazine. This issue highlights some of the diverse and interesting projects our scientists have been involved in, showing the wide reach Moredun's research has in helping to make an impact in several different science areas.

One of our scientists Mark Dagleish spent a very interesting few weeks working in collaboration with the RSPB helping to protect endangered bird species on the remote Gough Island in the middle of the South Atlantic (pages 10-11). This also involved collaboration with the Royal Zoological Society of Scotland and we were delighted to improve our links with the Zoo along with Heriot-Watt University at an exchange event held to look at developing some innovative inter-disciplinary projects (page 12). Our new sheep scab diagnostic was launched at the Sheep
Sheep farmers benefit from renewal of Moredun – NSA partnership

Moredun’s important collaboration with the National Sheep Association (NSA) was renewed in June this year, with a second three-year term agreed between the two organisations.

Samuel Wharry, NSA Chairman, commented “Regular feedback tells us it is a hugely appreciated part of our membership package. The research and development work Moredun does on behalf of the global sheep industry is remarkable.”

Chief Executive of the Moredun Foundation, Julie Fitzpatrick, said, “Our joint partnership has greatly benefitted Moredun by improving our connectivity with sheep farmers across the UK enabling us to focus our research where it can provide most benefit to sheep health and welfare.”

All NSA members are automatically Moredun members, unless they inform NSA otherwise, and therefore receive the highly regarded Moredun technical newssheets on a range of animal health and welfare issues. Livestock farmers are also encouraged to be members of Moredun individually, if they would like voting rights within the organisation and also to support the invaluable work Moredun does for the industry.

Commercial launch of the new sheep scab diagnostic

The new sheep scab diagnostic blood test developed by Moredun (see issues 8 and 9) is now commercially available to veterinary diagnostic laboratories. Launched at the Sheep Veterinary Society Conference in Mull in September, this novel diagnostic is being marketed by Lillidale Diagnostics under the LilliTest brand.

The test detects host antibodies to a specific protein found only in the sheep scab mite, which means that the test can accurately detect that an infestation is due to the scab mite and not another ectoparasite. The test can detect infested animals at an early stage and before the onset of clinical symptoms, which will be important in the effective control of the parasite.

Dr Stewart Burgess who leads the sheep scab research group at Moredun commented, “We are very pleased that the test is now commercially available. The development of a sensitive and specific blood test provides an important tool to aid control strategies for sheep scab and crucially, by using this new test, it is now possible to detect the infection much earlier, at the sub-clinical stage. It will aid farmers and vets by providing information to support treatment decisions and prevent further spread of the disease.”

Mr Mel Claremont, of Lillidale Diagnostics said, “We are delighted to collaborate with Moredun to bring the new test to market enabling the sheep industry to combat sheep scab infestation in their flocks.”

Moredun’s new Sheep Scab Diagnostic.
News

Veterinary Record Innovation Award for Barber’s Pole worm

Moredun veterinary scientist Dr David Smith received the inaugural Veterinary Record Innovation Award on behalf of the team who developed Barbervax®, a vaccine for the Barber’s Pole worm (*Haemonchus contortus*). The award recognises innovation in the veterinary sphere.

The Barber’s Pole worm is a globally important roundworm parasite of sheep and goats. It is a voracious bloodsucker causing anaemia which can readily become fatal. Barbervax® is the first vaccine in the world for this worm parasite of sheep. It was registered for commercial use in Australia in 2014, where the worm has a major impact on the sheep industry.

Suzanne Jarvis, Managing Editor of the Veterinary Record said, “For this new award we were pleased to receive a broad range of quality nominations. However, the clear winner was David Smith and colleagues at the Moredun Research Institute for Barbervax®. The judges felt this entry truly demonstrated innovation.”

LIVESTOCK KEEPERS image exhibited in New York

Many congratulations to Scottish photographer Kevin McCollum who many of you will know from his collaborations with Moredun.

Kevin is currently working with us on our public engagement project LIVESTOCK KEEPERS and one of his images from the project has been selected from over 9000 entries for the Photoville Exhibition held in Brooklyn Bridge Park in New York, 10-20th September. The public voted for their favourite 25 through Instagram and Kevin’s image of sheep at an auction mart in the Western Isles was one of the winners!

For more information about the LIVESTOCK KEEPERS project, go to www.moredun.org.uk/livestock-keepers

*Photo | Kevin McCollum*
Moredun welcomes visitors from across the livestock industry

Moredun continues to warmly welcome representatives from the different sectors of the livestock industry to its headquarters at Pentlands Science Park. This September was no exception with a number of different groups visiting the Park.

Representatives from the British National Farmers Unions and the Brussels Office joined us on 16th September to discuss the latest research updates and both the current and future issues facing the UK and European livestock industry.

Later on in the month representatives from the USA livestock sector visited Moredun as part of the Ohio State University Sheep Extension Programme’s Sheep Tour of the UK and Ireland. As well as gaining an insight into the history and vision of the Moredun Foundation, the group also learnt more about our work on liver fluke, ovine chlamydiosis and roundworm control.

Moredun scientists also enjoyed a visit from the Waitrose Lamb Development Forum Steering Group on 29th September who participated in a number of short presentations on diseases and issues affecting lamb performance and health.

As well as providing an insight into their work for our visitors, Moredun scientists enjoy the opportunity to learn more about different aspects of the industry, whether nationally or internationally.

Moredun Foundation Honorary Fellowships

The Moredun Foundation was delighted to award an honorary fellowship to both John Ross and John Huntley at its AGM on 3rd September.

John Ross CBE was chairman of the Moredun Foundation for eight years until his retirement in December 2012. He had previously also chaired the MRI board from 2002 to 2004. John, a senior partner in his family’s farming business in Dumfries and Galloway, has made a huge contribution to the Scottish livestock industry through his various roles with organisations such as Moredun, National Farmers Union of Scotland, Quality Meat Scotland and the Scotch Quality Beef and Lamb Association.

John Huntley is a renowned immunoparasitologist who retired in 2014 after 30 years at Moredun. He was instrumental in the development of the new sheep scab diagnostic and in recent years his work expanded to include the potential for vaccination to other ectoparasites and in particular to the red poultry mite.
Optimised wormer treatment in hill sheep

Targeting only individual lambs that are suffering production loss due to gut worm infection is a way to optimise wormer use. Here, Fiona Kenyon and Dave McBean (Moredun), Claire Morgan-Davies and Nicola Lambe (SRUC) discuss the use of this approach on commercial farms.

The UK is home to many different species of gut worms that infect sheep and all grazing animals are infected to some degree. Generally, the level of infection determines the severity of the disease, with many animals continuing to grow well whilst carrying some worms, whereas heavy infections suppress appetite, affecting growth rate. Routine use of worming drenches (anthelmintics) is the mainstay of control, however, in many areas worms have developed resistance to the drenches, with the result that they do not completely clear the infection and animal production suffers.

Where selective breeding can be used to modify traits in flocks by selecting certain animals to breed from, the same principle can explain how wormer resistance arises in gut worms. Susceptible worms are killed by the drench, leaving only those worms that survive in the animals. The offspring of these surviving worms also survive drenching and eventually, the proportion of worms that can survive builds up until the majority of worms are not removed and disease becomes apparent.

As the number of drug classes available is limited, we need to keep the drenches we have working for as long as possible. This can be done by only treating those lambs that are suffering production losses to target wormer use. Researchers at Moredun have developed a decision support system to identify and drench only underperforming lambs which are failing to grow as expected (also known as targeted selective treatments, TST). Testing of the approach on the Moredun farm and on five commercial lowland farms, using electronically tagged (EID) lambs and monitoring weight gain, has shown that by only drenching underperforming lambs we were able to reduce drench use by about 50% whilst maintaining lamb growth and wormer effectiveness.

However as many sheep in Scotland are farmed on the hills, the approach is now being tested in hill flocks by Moredun in collaboration with SRUC scientists at the Hill & Mountain Research Centre’s Kirkton Farm, near Crianlarich, Perthshire. The study compares a precision farming approach, where lamb wormer treatments are applied following monthly weight monitoring, to a traditional approach where wormer is administered by monitoring worm egg counts. The three year trial has reduced wormer use by about 50% in selective drenching groups, with no differences in weight gain between the two groups. The use of EID and an automatic weighing/drafting system reduced labour, with the TST approach costing only 20% of the traditional approach.

Selective worming can reduce wormer use, protect the useful life of wormers and save time and money. EID and other new technologies available can be part of an effective farm management system for hill sheep, reducing costs and helping to maintain healthy productive stock.
Some new faces at Pentlands Science Park

Pentlands Science Park is delighted to welcome Biotangents as its latest tenant, with the company having moved into office space and a laboratory within the International Research Centre over the summer.

Biotangents uses advanced metabolic modelling, DNA assembly and screening approaches to explore different metabolic tangents and find the optimum solutions to the challenges of biological pathway engineering. We wish them every success here at the Park.

Following a few recent retireals, Pentlands Science Park is delighted to announce the appointment of two new members to the PSP board; Mr Ian Forbes, and Professor Lee Innes.

Ian has both a property and farming background, whilst Lee brings her experience from the science, business and communications sectors. Their knowledge and skills will make a significant contribution to the future direction of the science park, and we warmly welcome them both to the board.

As the Park looks to the future, PSP is very happy to report that it has taken on an apprentice engineer, Marcel Small, to work in our small engineering team.

Marcel started with us in August and will be attending Edinburgh College at Dalkeith to undertake his SVQ course in Heating and Ventilation.

Veterinary clinical field trials

Moredun Scientific conducts veterinary field trials for animal health industry clients to support the registration and marketing of new and improved veterinary medicinal products e.g. vaccines and therapeutics.

Such trials are conducted to veterinary good clinical practice standards (VICH-GCP) and are required to verify that results under field conditions reflect those observed in experimental trials with the target animals. They are carried out on the target species using final or near final formulations of the veterinary medicine at the recommended dosage.

We offer this service for all farm animal species. Our team of experienced study monitors and investigators manage the trials on commercial farms.

Our close connection with the members of the Moredun Foundation ensures we are well placed to rapidly select and enrol trial sites to meet the requirements for a particular study. If you are interested in potentially working with us to be part of a field trial please get in touch. Each study is different and requires varying numbers of animals of a defined health status to reflect the nature of the product to be tested in the trial. When recruiting farms, relevant information on the vaccination and therapeutic treatment history of animals will be required.

Moredun Scientific has particular expertise in parasitology, respiratory disease and mastitis which are the main focus areas for our field trial work. Our quality assurance department plays a significant role in all studies, they are experienced in VICH-GCP ensuring the essential provision of independent quality assurance at all phases of the trials.

Contact us to learn more:
dreddick@moredun-scientific.com
LIVESTOCK KEEPERS, a public engagement project developed by Moredun in collaboration with Scottish photographer Kevin McCollum was on show in the Member’s Room of the Scottish Parliament on Wednesday 30th September. The project highlighted the role of livestock in supporting a range of diverse rural industries across Scotland, including food and drink, wool and textiles and tourism and the arts. Livestock also play a significant role in biodiversity and the environmental and cultural heritage associated with remote rural communities.

Over 70 guests enjoyed an evening of entertainment browsing the fabulous images on display; listening to three of the featured Livestock Keepers talking about their lives and aspirations and enjoying the music of a talented young crofter Padraig Morrison from South Uist. Padraig’s music provided a fitting backdrop to a superb fashion show, using wool products, designed by students from Heriot-Watt University’s School of Textiles. The event, hosted by John Scott MSP, was hailed as a huge success by all who attended including MSPs, government officials, scientists, project collaborators and farmers; and reflected the positive impact of Moredun’s research on the impressive range of businesses which are based on healthy livestock.

The project, which includes audio clip interviews with the Livestock Keepers, as well as the fabulous range of images from all over Scotland, is now ready to go on exhibition - locations and dates are being discussed, so please see our website (www.moredun.org.uk/livestock-keepers) for further information and future venues. LIVESTOCK KEEPERS is a talking science project funded by the Scottish Government (OCSA) and the Moredun Foundation and has been conducted in collaboration with Kevin McCollum Photography, Heriot-Watt University, The Crown Estate, James Hutton Institute, Crofting Connections, Harris Tweed Authority and participating livestock keepers from across Scotland.
Original designs using wool fabrics from Heriot-Watt University, School of Textiles.

Mr Tom Nelson, Glengorm Estate, Isle of Mull.

Padraig Morrison.
Out and About

The Princess Royal supports research and collaboration to celebrate Scotland’s Year of Food and Drink

Moredun was delighted to welcome our Patron, Her Royal Highness The Princess Royal, to a special event held in October to mark Scotland’s Year of Food and Drink.

The Princess Royal was joined by over 100 representatives from the food, agricultural, government and research sectors to showcase the work being carried out to ensure the delivery of high quality nutritious and sustainable food supplies and to encourage local food production and consumption.

75% of the land in Scotland is used for agriculture and Scotland is renowned worldwide for the quality and diversity of its natural larder, as well as boasting several Michelin starred restaurants. Yet the paradox is that many people in Scotland suffer from poor diet and nutrition. The event highlighted the role of collaboration and research across different sectors of the food industry and the importance of bringing together researchers with industry representatives to help grow Scotland’s reputation as a Good Food Nation.

The speakers at the event included Professor Julie Fitzpatrick, Moredun Research Institute, Professor Peter Morgan, Rowett Institute of Nutrition and Health and Mrs Shirley Spear, Chair of the new Scottish Food Commission and owner of the Michelin starred Three Chimneys restaurant on the Isle of Skye. The presentations highlighted how new research and technologies were being applied to help in primary food production on farms, improving the nutritional quality of food and our diet and looking at how working together can help ensure Scotland becomes a Good Food Nation.

Mr Ian Duncan Millar, Chairman of the Moredun Foundation, commented, “Moredun is delighted to host this event celebrating Scotland’s Year of Food and Drink highlighting the importance of collaboration and connectivity between new research and those working across the food industry to help ensure the production of high quality, nutritious and healthy food.”

During her visit, HRH The Princess Royal met guests including a group of post-graduate students and early career scientists along with those representing some of Scotland’s research organisations, the farming industry, the Scottish Food Commission and the Equine Grass Sickness Fund.

Before leaving, HRH The Princess Royal had a private tour of the laboratories and met scientists involved in aquaculture and fish health along with those leading new developments in diagnostics and vaccines against parasitic infections of livestock.
AWAVP Conference

August saw Moredun’s parasitologists attend the 25th International Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP) in Liverpool. WAAVP brings together parasitologists from around the world to present and discuss the latest advances in their research, as well as important issues relevant to veterinary parasitology. Our scientists presented research updates on a number of areas including sheep scab, cryptosporidiosis, targeted selective treatment, equine parasitology and poultry red mites; as well as two keynote addresses on ‘Immune modulation by Teladorsagia circumcincta and implications for control’ and ‘Progress towards a sub-unit vaccine for control of teladorsagiosis in sheep’. Conferences such as this provide a great opportunity to showcase our work, develop future collaborations and help to support and develop the careers of our talented PhD students.

Show report

The summer months each year sees a team of Moredun scientists travel around the UK attending specialist sheep and beef events in order to keep farmers up to date with the latest advances in livestock health research.

Moredun had an extremely successful summer show season this year. We started off in May with NSA Welshsheep in Newtown, Beef Expo in York and Scottish Beef Event in Blairgowrie. In June we attended NSA North Sheep in Cockermouth, NSA Highland Sheep in Tain and the Royal Highland Show in Edinburgh.

In November we, for the first time, attended NBA Beef South West as part of their speaker’s corner session on health and production.

All the shows were very well attended and our scientists were kept busy answering questions on a variety of subjects. At the Royal Highland Show we saw a mixture of farmers, politicians, supermarket representatives, funding bodies and members of the public attend our marquee.

For further information about the shows and events Moredun will be attending please visit www.moredun.org.uk/events
Moredun scientist Dr Mark Dagleish travelled to Gough Island in the South Atlantic Ocean to assist in an RSPB project to protect colonies of breeding birds. Moredun Magazine interviewed Mark to find out more about his expedition.

Where is Gough Island?
Gough Island is in the middle of the South Atlantic, over 6000 miles from the UK and about 24 hours by ship from Tristan da Cunha, which is the most remote permanently human inhabited island in the world. From Cape Town in South Africa, it takes 6 days in a fast ship in good weather to reach it.

Tell us about the project and your role?
In the 1800s sealers visited Gough Island and introduced Western European house mice. The mice eat albatross chicks and are endangering the viability of some species of albatross, which only breed on this island.

The aim of this RSPB project is to use a poisonous bait to eradicate the house mice. The baiting will be timed for when the majority of the seabirds are off the island and not breeding, but two species, the Gough Island moorhen and the Gough Island bunting, do not migrate and may be affected by the poisonous bait. Therefore a percentage of the population will be taken into protective captivity so that you have birds to release after the poison has degraded, to repopulate the island, if anything happens to the free-ranging ones. The big worry is that if you have any disease outbreak whilst the birds are in captivity, you only have access to whatever treatment has been brought onto the island by ship.

My job was to examine the health of the birds and determine their normal blood parameters and which pathogens they carry. We looked for bacteria and parasites in blood smears and faeces and also collected samples on FTA cards to enable us to do further molecular and genetic analysis back at Moredun.

Did you need any special training before you went?
I was way outside my comfort zone because as a pathologist I normally work with dead things that don’t move very fast, and I don’t normally work with birds! However, Simon Girling the head vet at Edinburgh Zoo was very helpful sourcing the equipment and gave me some training on blood sampling birds. I was the only vet there but I was working with a very experienced team of bird ecologists and there were also some people doing seal work, which is more my line.

Were you able to look at any of the seals whilst there?
Oh yes! I went out with a sampling kit and the scientists working on the seals were wonderful.

Protecting albatross and other bird species on Gough Island
In two days they caught 94 seal pups and we were able to get rectal and nasal swab samples from them. This will enable us to do some comparative work with previous studies we have conducted looking at grey seals from a colony on the Isle of May in Scotland where we found the seals were carrying human strains of Campylobacter and cattle strains of Salmonella spp. bacteria. We also have access to samples from Galapagos sealions. It will be fascinating to compare the results we get between the different seal populations, as the Isle of May seals are exposed to a lot of human sewage and agricultural runoff, the Galapagos population are living with a growing population of people whereas the seals on Gough Island are as isolated as you can get, so it’s a super clean population. These are sub Antarctic fur seals and Gough has the largest breeding colony in the world of that species.

What were your impressions of life on Gough?

It felt like you had arrived in Jurassic Park! It is very green. Although otherwise uninhabited, there is a weather station on Gough Island, with a permanent team of 9 people, usually including two or three bird specialists. The group stays for a year. A supply boat visits annually for the team changeover, bringing food, diesel and medical supplies, and stays for 3 weeks and in that time there are up to 40 people on the island including extra scientists such as myself.

As a world heritage site, biosecurity is very tight. Your kit is extensively searched to keep out seeds from the highly invasive and destructive Pearlwart (Sagina procumbens), a North European plant that has invaded Gough and has already devastated some of the other South Atlantic islands. No fresh fruit or vegetables are allowed onto the island, so those who had been there for a year were craving things like a salad or an orange! Medical care on the island is limited, so extensive medicals are required before you travel. The visiting research vessel had a full human operating theatre and the doctor came ashore with us. When he found out I was a vet the first thing he said was, “Right if we have any operations you can help me.”

How would you sum up the experience?

Amazing and a wonderful opportunity! It has been like a mini-sabbatical and I have met some really interesting people. Together we have generated some new lines of research which should result in several new publications and some grant applications. I have really enjoyed having the time and space to go back to first principles of scientific research and discovery. I am very grateful for this once in a life-time experience.
Research leaders from Moredun, Heriot-Watt University and the Royal Zoological Society of Scotland (RZSS) participated in a special Exchange Event in June aimed at stimulating novel interdisciplinary research collaborations and proposing new ideas for even closer research cooperation between the three institutions in the future.

The participants represented a wide range of biological, engineering, management, physical and mathematical sciences spanning many of the principal areas of research excellence from Moredun, Heriot-Watt University and RZSS. Over two days, the group learnt more about the research aims, expertise and facilities of each institution from key note speakers including Scientific Director of the Moredun Research Institute, Prof Julie Fitzpatrick; Chief Executive Officer of the RZSS, Prof Chris West; Director of Giant Panda Project and Strategic Innovations, RZSS, Dr Iain Valentine; and Head of Research Institute in Signals, Sensors and Systems at Heriot-Watt University, Prof Marc Desmulliez.

The Exchange Event comprised an intensive, interactive programme of seminars, collaboration exercises, tours and facilitated discussions led by Vivienne Parry during which participants were challenged to develop proposals for interdisciplinary research projects. Prof Alan Miller, Former Deputy Principal for Research & KE, Heriot-Watt University and Trustee of the RZSS, said “I was very impressed by the originality and scope of new ideas generated by this intensely interactive event, which I am certain will lead to many innovative interactions and projects exploiting the complementary knowledge and skills of the participants from the three organisations.”

It is hoped that this event will build on the success of the inaugural Heriot-Watt – Moredun Exchange Event held in 2011 which saw the subsequent development of a research partnership which went on to win a €9 million research grant from the European Union.

Commenting on the developing track record of successful research collaborations between Heriot-Watt University and Moredun, and ambitions for future synergies with RZSS, Prof Lee Innes, Director of Communications, Moredun Research Institute said, “We have had a really interesting couple of days at the workshop meeting new colleagues, exchanging ideas and building some innovative collaborative links going forward. I am very confident from what I have heard at this event and the enthusiasm of the participants that some exciting new areas of work will be developed bringing together the diverse skills and interests across the three organisations.”

The Exchange Event was developed by the Centre for Academic Leadership & Development (ALD) at Heriot-Watt University based on their experience of designing Scottish Crucible and Heriot-Watt Crucible programmes.
Healthy Beef from Whisky Country

Moredun and The Crown Estate further cemented their successful partnership with a joint farm event entitled ‘Healthy Beef from Whisky Country’ held at Auchorachan Farm, Glenlivet by kind permission of the Durno family. The event held on 13th October, saw 75 people attending including livestock farmers, vets and representatives from the livestock industry.

The morning programme held on Auchorachan, overlooking pens of magnificent Simmental bulls, included a welcome by Alan Laidlaw (Crown Estate) and an introduction from Michael Durno on the cattle breeding programme at Auchorachan. Short, practical presentations followed on the interpretation of Johne’s diagnostic test results and on farm control of cryptosporidiosis by Drs Karen Stevenson and Beth Wells respectively (Moredun); the Hi Health disease approach (Karen Tait, Biobest) and feeding rations for breeding cattle (John Taylor, Harbro).

The afternoon programme held at the Glenlivet Distillery involved a stimulating panel discussion session skilfully chaired by Nigel Miller, with high profile panel members David Leggat (United Auctions), Professor Julie Fitzpatrick (Moredun) and Donald McLean (Aberlour Veterinary Centre). Audience participation was excellent and the response from all the panel members was thought provoking and inspiring with subjects including, food security, selection for genetic resistance to disease, cattle and bull infertility, Johne’s and TB diagnostic test interpretation, and reduction in antibiotic use on farm. Finally, Nigel invited the panel to suggest a “wish-list” of scientific breakthroughs they would like Moredun to provide next! The answers ranged from liver fluke, mastitis and Neospora vaccines, to “anything” that will get rid of sheep scab: so lots to do over the next few years!

Alan Laidlaw, The Crown Estate’s Rural Portfolio Manager said, “As active, responsible land managers, The Crown Estate’s work to stimulate business and support a diverse economy at Glenlivet has spanned many years. We take a sustainable approach to land management and work closely with partners that will bring about long-term benefits to our estates. I was delighted to see so many of our tenants join us at Moredun’s Livestock Health Roadshow - events like these provide practical, up to date information and bring people together to find solutions to overcome the challenges faced by farmers. We will continue to work with Moredun and other like-minded organisations to help support our tenants’ businesses and the farming sector.”

Ian Duncan Millar, Chairman of the Moredun Foundation said, “Moredun were delighted to work in collaboration with the Crown Estate on this event and it was great to see so many farmers turn out to join in the discussions on how to improve livestock health and welfare. Moredun was set up by farmers, for farmers and we work hard to ensure that our research is very much focused on the needs of the farming industry.”