

# The single challenge with BRD viruses in calves

**Stephanie O'Donoghue, Bernadette Earley, Sinead Waters**  
Teagasc Grange.

**O**ur studies use RNA sequencing to analyse the blood and lung transcriptomes of calves following a single challenge with two BRD viruses (BoHV-1 and BRSV). Differentially expressed genes and regulatory regions controlling their expression have been identified in calves post-challenge.

This data will assist in identifying variants, which will be included in genomic selection breeding programmes to generate healthier, more robust cattle with a greater potential to resist BRD.



Stephanie O'Donoghue.

## BOBMAN Bedding Machines

# BOBMAN<sup>®</sup>

MADE BY JYDELAND

Parts Now Available online  
[bobman.ie](http://bobman.ie)

**BOBMAN -Value Your Time**

**CLEANS 150 CUBICLES IN UNDER 5 MINUTES**

### Features

- 3 in 1 – All Bobman bedding machines scrape the slats, brush the cubicle bed and spread an even layer of bedding.
- Bobman Bedding machines can spread all types of bedding, including Lime or powder disinfectant, sawdust, chopped straw, peat bed, paper mulch and more.
- Bobman Bedding machines can also be fitted with a disinfectant sprayer to spray the cubicle bed.
- Using a Bobman will reduce farm workload, saving the average farm over 1 hour per day.
- Cleaning the beds and shed with a Bobman regularly will help to reduce herd disease and cell count.
- The majority of herds using a Bobman will reduce their use of bedding materials.
- Using a Bobman reduces the risk of physical injury to farmers or their employees whilst cleaning the cow shed.



Moreway Ltd  
086 8130876 or 01 5332875  
Email - [info@bobman.ie](mailto:info@bobman.ie)  
web [www.bobman.ie](http://www.bobman.ie)

DISTRIBUTED BY:  
**MOREWAY LTD**