

Grant Period	Name	Home Institution	Home Country	Host Institution	Host Country	Title
1	Vahel Ameen	Freie Universität Berlin	Germany	Swedish University of Agricultural Sciences	Sweden	Comparison of Droplet Digital PCR and Pyrosequencing Assay for Detection of Benzimidazole Resistance in <i>Haemonchus contortus</i>

Keyword: cattle, anthelminic resistance detection, ddPCR, pyrosequencing, *Haemonchus contortus*

This project aims to compare ddPCR and pyrosequencing assays as two highly sensitive molecular analytic methods used to detect the BZ resistance associated SNPs at the codon 200 of β -tubulin isotype 1 gene in *H. contortus*. The newly developed ddPCR methods will be compared to the current gold standard pyrosequencing. The results will help to assess the accuracy and reproducibility of both methods within the determination of BZ-resistance associated beta-tubulin allele frequencies.