

Grant Period	Name	Home Institution	Home Country	Host Institution	Host Country	Title
2	<b>Paulius Baltrusis</b>	Swedish University of Agricultural Sciences	Sweden	Freie Universität	Germany	<b>Resistance to Benzimidazoles identification in sheep parasite <i>Haemonchus contortus</i> via Pyrosequencing and droplet digital PCR</b>

Keywords: cattle, anthelmintic resistance detection, ddPCR, pyrosequencing, *Haemonchus contortus*

The aim of this STSM is to screen and objectively analyze the samples containing *Haemonchus contortus* worms for the presence of resistance to benzimidazole drugs using the pyrosequencing (at the laboratory of the host institution) and digital droplet PCR (developed by the applicant at the home institution) techniques. In this way, a comparison will be drawn between the two methods, evaluating the time, precision, costs, as well as robustness of these two techniques in diagnostic use.