

JOB DESCRIPTION



- Undertake *in vivo* cross-mating between ML-susceptible and MLresistant mite populations to generate F₁ progeny for bulk segregant analysis (BSA)
- Combine this with transcriptomic analysis to identify the mechanisms of ML resistance
- Apply a population genomics approach to track the emergence and spread of this resistance in the UK
- Assist with the routine maintenance of the *in vivo* sheep scab infestation model hosted at MRI
- Monitor the progress of experiments and maintain accurate records of procedures and observations
- Analyse experimental data using statistical methods to evaluate experimental outcomes
- Document all research findings, experimental procedures, and results. Preparing reports, scientific papers, and presentations to communicate findings to the scientific community and stakeholders
- Working closely with other researchers and institutions involved in the project to share findings, collaborate on research, and integrate various approaches
- Publish high-quality research articles
- Keep abreast of advancements in parasitology and drug resistance, to continually improve the project's efficacy and add value to the overall scientific community
- Promote the Moredun Group through presentations, workshops and meetings to present and discuss scientific outputs

	Essential	Desirable
Attainments:	A PhD or equivalent in a relevant field	A PhD in molecular parasitology, genetics, drug resistance
Experience:	Proven experience in parasitology, or a related field	
	Experience of large animal handling, or a willingness to be trained	Experience performing <i>in vivo</i> studies
	Proficiency in <i>in silico</i> analysis and manipulation of genomic and transcriptomic datasets, or be willing to be trained in this area	

PERSON SPECIFICATION

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	on an issue and to adapt an approach as the situation changes	
Other skills (please specify)		
Other requirements (please specify)	Willingness to undertake some work outside of normal working hours w required (e.g. during <i>in vivo</i> studies)	
(please specify)	Willingness to travel for sampling and routine project meetings as required	