

# 2022 FLYSTRIKE RD&E TECHNICAL FORUM

MLA Flystrike RDE Projects

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# Current investment in flystrike management

## 1. Research and adoption pathways to provide new options for flystrike control - Peter James and Andrew Kotze

Research areas identified include:

- drug resistance management (drug resistance diagnostics, modelling of drug-use strategies),
- chemical and biological therapeutics,
- novel delivery methods for chemical and biological agents,
- development of more readily-measurable breeding indices for flystrike-related traits
- development of genomic selection methods
- prevention of gastrointestinal nematode-induced scouring.

Areas where advances can be made in flystrike control through the greater adoption of well-recognised management approaches include:

- optimal drug-use practices (resistance management strategies),
- guidelines for breeders on how to best use current flystrike-related ASBVs
- management practices (including breeding and optimal anthelmintic use) to prevent scouring.

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## 2. Dung Beetle Environmental Engineers – Rural R and D for Profit project

- Import of new dung beetle species
- Model distribution
- Attempt to measure production impact/ lowering of parasite burdens

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## 3. Sterile Insect Technique on Kangaroo Island

- Mass rearing facility build as modular, transportable unit on KI
- Yearly release of sterile males
- Measure ecological change
- Measure production benefit to producers
- Characterise opportunity for use on mainland
- “Proof of concept”

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## 4. Transition to a non-mulesed flock

- Cost/benefit analysis for sheep meat supply chain
- Drivers of change
- Market access risks



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