

# Buzz about natural fly insecticide

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The University of Queensland and Queensland Department of Agriculture and Fisheries researchers have developed a clean and safe insecticide to combat nuisance flies in cattle feedlots, using spores of a naturally occurring fungi.

UQ Queensland Alliance for Agriculture and Food Innovation (QAAFI) Senior Research Fellow Dr Peter James said flies were a nuisance for workers and could carry disease.

"The spores of a Queensland strain of the *Metarhizium anisoplaie* fungus have been developed as an ultra-low volume spray that attaches to the

external surface of the fly or is ingested by the flies and kills them," he said.

"The spray is very safe, has no effects on humans or animals, and is part of an integrated control approach to suppress fly populations."

"It sticks to the surface of flies and also to vegetation around feedlots, and is not sprayed on cattle."

Dr James said flies were beginning to develop resistance to chemicals now used in feedlots and the fungal spray provided a clean, residue-free, safe and sustainable alternative.

It is being tested at feedlots in the Dalby area in Western Queensland.

"A lot of work has gone into isolating different strains of the fungus that are effective against flies, then testing different ways of mixing it and applying it in an ultra-low volume formulation."

He said the [spray](#) did not kill flies immediately.

"This is very much about suppression of the population rather than a 'hit them and die immediately' approach, as we do not want to knock out the natural predators and parasites of the [flies](#), which would ultimately lead to a resurgence in pest numbers."

Dr James said integrated pest management systems involved good sanitation, biological agents and the focused use of insecticides to reduce fly populations, rather than relying on insecticidal control methods alone.

Provided by University of Queensland

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