

**2021-22 Investment Call**  
**2 Proposals**

Project code	Proposal Title	Lead Investigator	Research Organisation	Project Summary
J20382	A vaccinology approach to control scour worms	David Emery	University of Sydney	An effective vaccine against a parasite requires an antigen that elicits an immune response, against the parasite in question, targeted at the parasite's site of infestation. Almost the entire Australian sheep flock is challenged by infestation with Small Brown Stomach Worm and Black Scour Worm (the "scour worms"), that are not primary blood suckers and hence, less susceptible to antibodies circulating in the blood stream. The challenge is to find the right antigen, ensure that the response it elicits is expressed at the site(s) of infestation, and has an effect that leads to the death or inactivation of the parasite. Successful completion of this research will also benefit beef and goat meat producers.
J20734 L.ADP.2202	Optimising southern beef enterprise management and reproductive rate to maximise profit <i>(New title - Producing Profitable Southern Beef Heifers)</i>	Wayne Pitchford	Davies Livestock Research Centre, University of Adelaide	This project will develop a targeted adoption program focused on driving measurable on-farm practice change to increase whole of life cow productivity for southern beef producers. The investment will build on previous research conducted across southern Australia for winter/spring and autumn calving systems. This presents a unique opportunity to lift southern beef heifer weaning rates by 10% and engage a minimum of 180 producers with at least 250 heifers each or a total of 45,000 heifers/first calf cow, (plus 40,000 heifers/first cow from the pilot program).