

Title	Delivering methane inhibitors to pasture-fed ruminants
Project Timeframe	May 2018 – Sep 2020
Countries Involved	New Zealand (Victoria University of Wellington, University of Canterbury, Callaghan Innovation, Massey University)
Aim	To develop a proof of concept method for modifying filamentous fungi to produce methane inhibitors for supply to pasture-grazing ruminants.
Research Highlights	Reconstituted methane inhibitor biosynthetic pathway to enable production in culture using our previously verified cloning technology, MIDAS, in a fungal host.
	Optimised the componentry for efficient compound production.
Future Work	Optimise fungal systems for high-level linhibitor production
	<ul> <li>Full chemical and genetic analysis of P. paxilli transformants</li> </ul>
	Test the system on other inhibitors
Key Research Output(s)	Journal article(s)
	Two journal articles are in preparation and will await further decisions around IP before submission.
	<u>IP(s)</u>
	Discussions with AJ Park and NZAGRC are currently underway.