



Professor Ary Hoffmann

New approaches for pest control and maintaining healthy environments under climate change

Current Organisation:	The University of Melbourne
Administering Organisation:	The University of Melbourne
Primary research field:	Genetics and Zoology
National Research Priority:	An Environmentally Sustainable Australia

Professor Ary Hoffmann is a past Australian Research Council (ARC) Federation Fellow and a Professor in Departments of Genetics and Zoology at The University of Melbourne. His main research interests are biodiversity and climate change, and entomology. He is an international authority on environmental stress monitoring, including: climate change effects; controlling pest organisms; and predicting how organisms will deal with climate change.

Professor Hoffmann's project will develop ways in which the role of insects within environments can be maintained and enhanced, and will consider how insect populations can be used to monitor environmental health and to act as model systems for understanding biodiversity. Professor Hoffmann aims to develop new guidelines for maintaining sustainable insect populations in farmlands and natural reserves, show how healthy populations of threatened species can be maintained under climate change, and use insect models as a way of discovering new genes underlying climate adaptation.

Professor Hoffmann completed his PhD on ecological genetics at La Trobe University, subsequently completing a postdoctoral fellowship at the University of California, Davis before returning to La Trobe University where he attained a personal Chair in 1998. Professor Hoffmann was Director of the ARC Centre for Environmental Stress and Adaptation Research. He has co-authored three volumes on evolution under environmental stress, and contributed more than 310 papers in top scientific journals as well as numerous technical papers in industry journals.

Professor Hoffmann has been a member of the editorial boards of *Science*, *Genetics*, and *Journal of Evolutionary Biology*. He is a contributor to several senior government committees on climate change adaptation and environmental issues. His work has featured widely in the media, and he has presented it to broad interest groups including the Prime Minister's Science, Engineering and Innovation Council. Professor Hoffman is a Fellow of the Australian Academy of Science.

Media contacts

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