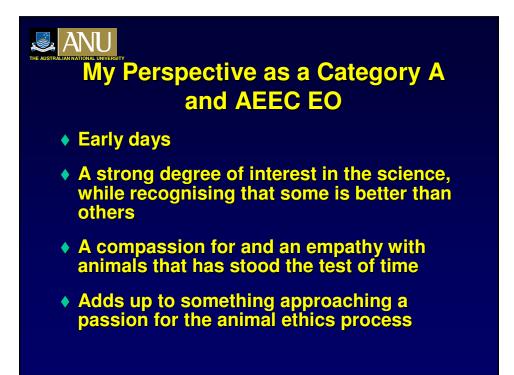
Weighing Ethical Decisions Against the Benefits of Research

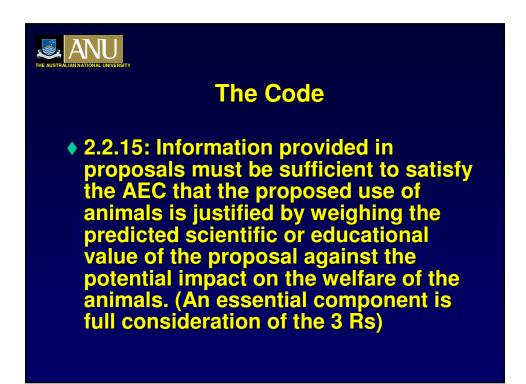
Simon Bain Executive Officer ANU AEEC Director Office of Research Integrity



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ANU/MAWA Initiative

- Appointment of a Senior Fellow to research alternatives to the use of animals in the biomedical sciences
- ACAAR (Australian Centre for Alternatives to Animal Research)



The 3R's and addressing the impact

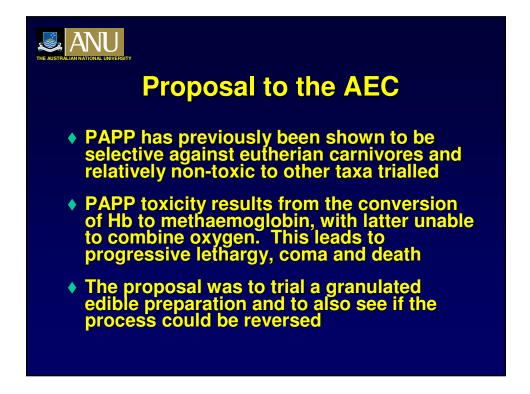
- Replacement where feasible
- Reduction has implications for cost relative to animal numbers
- Refinement offers plenty: Anaesthetics, analgesics, environmental enrichment, clinical score sheets, to name a few

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But what about the refinement provided by.....

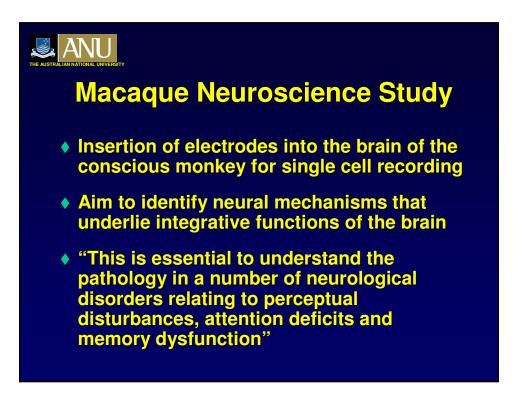
 Good experimental design including the choice of methods and materials that have the potential to significantly reduce the cost to the animal and at the same time have the potential to produce a valuable scientific income



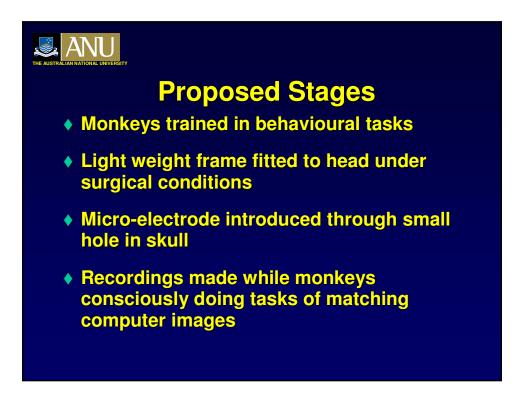


This is a death as an endpoint study-how did it go

- Trial animals died with little sign of distress. It was concluded that PAPP administered in an edible granular form was a preferable alternative to 1080
- Methylene blue was able to reverse the toxicosis. Positive implications for dogs accidently poisoned
- The experimental outcomes appear to have justified the deaths of the experimental animals



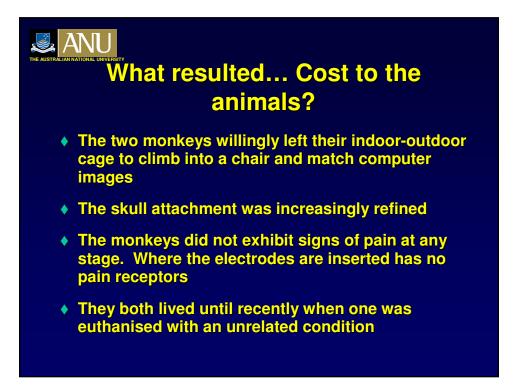




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The AEEC went through interesting times...

- Three protest marches
- Press and TV coverage
- External scientific opinion sought
- Six months AEEC consideration
- Finally consensus for study approval but under conditions of tight monitoring



The resulting scientific value...

- Publications resulted in prestigious journals such as Science
- That scientific publication the Melbourne Age, in its Education News, gave the work an impressive review. It mentioned that monkeys were used