

## Australian Phenomics Network (APN)

The APN provides Australian and international researchers with mouse models for the study of a variety of diseases ranging from cancer and diabetes, to immunological and blood disorders.

### Key facts

- State: ACT, QLD, NSW, SA, VIC, WA
- Lead institute: Australian National University
- Project status: In progress
- Australian Government contribution:
  - \$16.5 million from the National Collaborative Research Infrastructure Strategy program
  - \$15.0 million under the Super Science Initiative *and*
  - \$4.7 million under the Collaborative Research Infrastructure Scheme (CRIS)
  - \$3,442 million from the National Collaborative Research Infrastructure Strategy 2013 program
- Other funding sources include the host institutions, state governments and the NHMRC.

### Project deliverables

APN provides users access to the following:

- mutant mice with known genetic variations (genotype to phenotype)
- chemically-induced mouse mutants with desirable characteristics (phenotype to genotype)
- cryopreservation of mutant mouse sperm and embryos (Australian Phenome Bank)
- custom gene targeting technologies for mouse models (siRNA and shRNA)
- histopathology services for mouse strains
- next generation sequencing for identification/ validation of mutant mouse models

By utilising mouse models, researchers aim to develop new insight into a variety of important human and animal diseases and discover new prevention and treatment strategies for these.

### Access

All researchers can access the APN via facilities across Australia at a low cost and on the basis of merit. Reasonable commercial rates are charged to industry users.

To find out how to access the facilities, visit the [APN website](#).

### Participating organisations

- Australian National University (ANU) (lead agency)
- Monash University
- University of Melbourne
- Walter and Eliza Hall Institute

- Peter MacCallum Cancer Centre
- Menzies Institute (node transferred to Macquarie University in 2012)
- Centenary Institute
- West Australian Institute of Medical Research
- Animal Resource Centre
- Institute of Medical and Veterinary Sciences (node transferred to South Australian Health and Medical Research Institute in 2012)
- Institute of Molecular Biosciences
- Queensland Institute of Medical Research
- State Government of South Australia
- State Government of Victoria
- Wellcome Trust Fund
- National Institutes of Health
- National Health and Medical Council