

Australia invests \$100 M for major advances in medical research technology

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For the development of new technologies to improve diagnosis and treatment of stroke, epilepsy and lung disease, including COVID-19



The Australian Government is investing \$100 million into the development of new technologies to improve diagnosis and treatment of stroke, epilepsy and lung disease, including COVID-19.

The funding will be split across three research projects led by senior researchers at the University of Melbourne, the Australian Lung Health Initiative, and Florey Institute of Neuroscience and Mental Health.

The five year funding is being provided under Stage Two of the Frontier Health and Medical Research Initiative, an unprecedented program which allows researcher collaborations to explore the most bold and exciting ideas that could have a dramatic, global impact on health care.

The successful projects were chosen from 10 applicants, which each received up to \$1.5 million in funding to develop groundbreaking ideas into research plans. The research plans were then assessed by an independent committee of Australian and international experts.

The selected projects are:

- The Stroke Golden Hour project to develop lightweight brain scanners that can be carried in ambulances. This will allow ambulance officers to provide rapid diagnosis and treatment to stroke victims, saving lives and reducing disability.
- The Australian Epilepsy Project, which is providing a platform of artificial intelligence based expertise and clinical decision support. The platform will ensure all epileptics receive best practice care from their first seizure, and will also develop a data base for continuously improving precision medicine.
- 4D Functional Diagnosis, a new frontier in lung health for children that will deliver revolutionary lung scanners that are safe, rapid, and easy to use. The scanners will allow functional analysis of lung health and can be immediately applied to managing COVID-19, establishing Australia at the forefront of lung science, and kick-starting a high-value, high-tech

industry.