



INTRODUCTION

Lung cancer research and treatment has been transformed with the opening of NSW's first specialist centre at the Woolcock Institute of Medical Research in Sydney. The Centre for Lung Cancer Research will be dedicated to beating the disease, offering high-tech facilities to promote large translational research programs within the field.

Woolcock Centre for Lung Cancer Research

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**Woolcock Centre for
Lung Cancer Research** 

**Lung Cancer
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The future of global lung cancer research looks bright thanks to the revolutionary new Centre for Lung Cancer Research in Sydney.

The modern, purpose-built research hub will change the way the deadly cancer is diagnosed, treated and studied both in Australia and globally.

Acting as a hub for researchers working in the area of lung cancer, the facility will provide tissue, cellular material and patient-related information with a dedicated bio-bank and data centre for research project centralisation. Researchers will also have access to a state-of-the-art laboratory.

World-class researchers from some of Australia's best universities and hospitals will come together at the Centre for Lung Cancer Research to form the Lung Cancer Research Network.

The Network, made up of over 20 research teams, forms a multi-disciplinary group of basic and applied researchers and clinicians, with more to join as the centre expands.

At this one-of-a kind facility, researchers can share results and innovate faster, advancing the field of lung cancer diagnosis and treatment as has never been seen before.

This world-class Centre will lead the field with its truly translational approach to understanding, diagnosing and treating lung cancer.

THE BIG PICTURE

The Network links researchers with clinicians and health care providers across five core areas:

- Patient interface
- Mechanism of disease
- Drug discovery
- Modelling disease/drug evaluation
- Drug delivery and technology

This unique approach allows for a truly translational path to treating lung cancer, since each arm can provide scientific input, material and knowledge that supports research in the other arms.

Excitingly, this collaborative environment allows for an almost unlimited number of 'multi-disciplinary' projects.

MAKING A DIFFERENCE

Data generated from the Centre's research will flow across the Lung Cancer Research Network, allowing researchers to go from 'bedside to bench and back again'.

These are projects to develop non-invasive diagnosis methods and innovative drug delivery, and to build 3D-printed airway stents for patients with breathing difficulties.

And in doing so, it will save lives and change the treatment landscape for sufferers and their families.

WE'VE ALREADY STARTED

The Network has already established three exciting core research projects through the Lung Cancer Research Centre.

These are projects to develop non-invasive diagnosis methods, innovative drug delivery and build 3D-printed airway stents for patients with breathing difficulties.

Also in the pipeline are large-scale translational programs that will substantially boost knowledge and treatment options for the deadly condition.

A KILLER DISEASE

Australia's lung cancer facts make grim reading.

- Lung cancer is the fourth most common cancer in Australia and has the highest mortality rate
- More than 10,000 Australians are diagnosed with it each year
- It kills more women than breast, uterine, and ovarian cancer combined
- Unlike breast or prostate cancer, lung cancer has no diagnostic tests for early detection
- It is the leading cause of cancer in the Aboriginal population
- Just 15% of those diagnosed with lung cancer are still alive five years later

SOCIAL STIGMA

Despite these alarming statistics, the lung disease carries a stigma that makes it a taboo subject. This is likely due to its links to smoking, even though studies show 35 per cent of lung cancers in women are not smoking related.

Associations like the Lung Foundation Australia have initiatives to raise public awareness of the cancer, but there isn't sufficient funding or a concerted effort to develop new diagnostic tools, understand the mechanism behind the diseases or find treatments.

With its revolutionary new approach, the Centre will bring lung cancer research and treatment flying into the 21st Century.

The Woolcock Institute of Medical Research is a not-for-profit organisation.

If you are interested in further information about becoming involved in our research studies or donations, please visit our website www.woolcock.org.au.

Your contribution will make a difference.
Thank you for your support.