

## Centenary Institute Medical Research Foundation Wish List

### **An Introduction**

The Centenary Institute is a leader in independent medical research seeking improved treatments and cures for a multitude of diseases including heart disease, cancer and TB.

Our driving purpose is the belief that we can help reduce the suffering caused by disease and assist people to live well longer, healthier lives by conducting world-class medical research.

Over our short history the Centenary Institute has achieved the following exceptional outcomes for the community:

- Uncovered new approaches to treating breast cancer that have caused an increase in the survival rate
- Investigation of improvements to current cancer treatments that will overcome cancer drug resistance and lead to the development of highly personalised treatments that will give patients a greater chance of survival
- Prevention of sudden cardiac death through early diagnosis and treatment
- High success rate of liver transplants
- Improved outcomes for patients with liver cancer and hepatitis C
- Improvement in the treatment of hemophilia
- Developed new ways of detecting a person's propensity to develop asthma and inflammatory bowel disease
- We are currently developing vaccines aimed at preventing the spread of tuberculosis. With 1 in 3 people in the world infected, tuberculosis causes two million deaths every year.
- We are in the process of discovering new therapies that will prevent diabetic complications linked to the vascular system.

The Centenary Institute forms a critical point of contact and intellectual engagement between Sydney University and the Royal Prince Alfred Hospital. Our unique blend of highly skilled staff, equipment and facilities has allowed us to become world leaders in the following critical areas of medical research:

- Skin Cancer & Solid Cancers such as Breast Cancer, Bowel Cancer etc
- Cancer Drug Resistance
- Sudden Cardiac Death
- Liver Disease
- Tuberculosis

- Gene Therapy
- Diseases of the immune system

## An Invitation – Our Wish List

While not everyone can spend their life in a lab seeking answers to questions posed by disease, every person can contribute to the fight against devastating diseases such as cancer, heart disease and TB by making a contribution to the work of the Centenary Institute. The following pages outline the current areas of need at Centenary, areas where your financial support can make a significant impact on our research.

Please take some time to scan the list of opportunities and then feel free to call LauraBeth Albanese Marketing Coordinator on 02 9565 6118 to discuss the opportunities, arrange a tour of our facilities or to investigate further options in your area of interest.

### **Future Leaders Fund**

We realise that one of the most significant issues facing medical research in Australia is our ability to retain the best minds. The infamous ‘brain drain’ refers to the fact that Australia loses many of our best and brightest young scientists to international laboratories.

The Centenary has been successful in luring some top talent back to Australia and keeping many great minds here but to do this we have to be able to provide world class facilities and salaries.

To this end we are working toward the creation of a \$5M+ future leaders fund to provide named Fellowships and specialist equipment grants that will nurture the development of young researchers into the future leaders of biomedical research in Australia.

### **Accelerate the pace of our Research by funding a position**

Experienced staff not only ensures that equipment is operating reliably and at peak efficiency, but they also facilitate the rapid adaptation of new techniques between groups. The communal experience and problem-solving capacity of this environment is invaluable to the research success of all Centenary’s groups.

#### **Bioinformatics Specialist**

As research becomes increasingly hi-tech, it is essential that Centenary Institute employs a dedicated specialist who can interpret and make sense of data in order to accelerate the pace of our research across all of our labs. At our recent strategy meeting, our scientists unanimously agreed that a bioinformatics fellow is the Institute’s highest need.

In order for us to acquire this highly specialized person, and thereby hasten the results of our life-saving research, we will need **\$125,000** per year for the next three to five years.

#### **Imaging Specialist**

Recently Centenary purchased vital imaging equipment to enable its researchers to unlock the secrets of cancer, cardiovascular and infectious diseases. These machines allow researchers to investigate the responses of the immune system to cancer cells and infectious agents in living organisms in real time. For example, video of the immune system has shown that these cells can bind to and kill cancer cells. Achieving the maximal benefits from this sophisticated equipment requires a specialised operator. The Centenary Institute is raising funds to hire an imaging specialist to ensure that our scientists are able to both

accelerate the pace of their work and obtain the best research outcomes from this equipment.

In order for us to acquire this position, we will need **\$80,000** per year for the next three to five years. Please join us in our research for life by helping to fund this vital position.

## Equipment

Access to efficient scientific equipment is crucial to the work of our scientists. We are continuously upgrading equipment and laboratory facilities. Here are some of the current items on our wish list. If you are interested in funding a particular area of our research, for example into cancer, sudden cardiac death or juvenile diabetes please feel free to discuss the particular equipment needs for the labs working in your area of interest.

Please contact LauraBeth Albanese, Marketing Coordinator 02 9565 6118 to discuss further.

### Equipment > \$100,000

○ Live Cell Imaging Microscope	\$200,000
○ Equipment – Flow Sorter	\$900,000
○ Equipment – FACSCanto II	\$200,000
○ Whole Body Imaging Equipment	\$250,000
○ Automated Pathology Machine	\$250,000
○ Speed plus rotors	\$100,000
○ Multi- photon	\$1million

### Equipment \$10,000 to \$99,999

○ Plethysmograph for asthma research	\$54,379
○ Microscope - Research Upright	\$80,000
○ Image Analysis Software	\$50,000 + \$15,000 per annum
○ Research Inverted, Flourescent	\$40,000-\$100,000
○ Centrifuges	\$20,000
○ Vibratome Centrifuge- High	\$18,000

### Equipment < \$10,000

○ Microtitre Plate Shaker	\$1,195
○ Tissue Homogeniser	\$3,250
○ Transilluminator	\$3,600
○ CO2 Incubator	\$8,000
○ Microscope - Upright Laboratory	\$7,500
○ Microtitre Plate Reader – Basic	\$9,000

## Education Seminar Series

The Centenary Institute is committed to continuing education through both formal and informal channels. Our seminar and colloquia series encourage scientists from all disciplines to share ideas and findings. It is our experience that by creating these opportunities for cross-fertilisation of ideas we can significantly accelerate discovery.

The audience comprises researchers from Centenary, clinicians from the hospital and academics from the University (all levels from PhD up).

Weekly seminar series                      \$500 each or **\$25,000** for the year

Triennial colloquia \$5,000 each or **\$15,000** for the year

## Flow cytometry & imaging facility

The flow cytometry & imaging facilities are two of the Centenary's Institute's core facilities that can be used by every researcher at the Centenary Institute. Upgrading the facility will enable our researchers to conduct a higher volume of work, accelerating their research.

Flow Operator	\$70,000 per annum
Image Analysis Software	\$50,000 + \$15,000 per annum
Equipment – Flow Sorter	\$900,000
Equipment – FACSCanto II	\$200,000

## Travel Grants Fund

A donation of **\$100,000** will create a travel endowment named after you, the donor, yielding approximately \$6,500 per annum to enable our young scientists to attend conferences around Australia and overseas.

Attendance at international and domestic conferences is vital for their learning as well as their professional development. The Centenary Institute is committed to training and retaining the best scientific minds in Australia and to recruiting fine scientists back to Australia from overseas. Providing meaningful career development opportunities is a key element in ensuring a bright future for Australian medical research.

## Sponsor a seat of knowledge, support a cure!

We are offering you the opportunity to make a lasting impression in the field of medical research through the purchase of your own personalised Seat of Knowledge in the Centenary Institute's primary lecture theatre. The lecture theatre is where our researchers teach, learn and share their breakthroughs in medical research.

With your donation of **\$1,000** (or more), Centenary Institute will, upon request:

- Inscribe a plaque with either your name or the name of someone you would like to honour;
- Affix your plaque to a seat of knowledge in our primary lecture theatre;
- Send you an official certificate of recognition.

Please phone LauraBeth Albanese (02) 9565 6118 or email [l.albanese@centenary.org.au](mailto:l.albanese@centenary.org.au) if you would like to discuss this opportunity further.

## Commemorative Opportunities

If you would like to make a significant gift to the Centenary Institute, we have a number of commemorative opportunities available. A room, office or laboratory in the Centenary Institute may be named in your name or in honour of a family member or loved one. We will work closely with you to develop an engraved plaque to be placed in your chosen location in recognition of your gift.

The following are just some of the recognition opportunities available:

- |                   |             |
|-------------------|-------------|
| • Research Floor  | \$2,000,000 |
| • Laboratory      | \$500,000   |
| • Lecture Theatre | \$250,000   |
| • Board Room      | \$250,000   |
| • Research Office | \$100,000   |

## Contact Us

To discuss the opportunities outlined in this document, arrange a tour of our facilities or to investigate further options in your area of interest please contact

**LauraBeth Albanese**

Marketing Coordinator

Ph: 1800 677 977 or Direct: 02 9565 6118

email: [l.albanese@centenary.org.au](mailto:l.albanese@centenary.org.au).

LauraBeth will be happy to discuss our work and your ideas. Contacting her puts you under no obligation.