

AITHM | AUSTRALIAN INSTITUTE  
OF TROPICAL HEALTH & MEDICINE



JAMES COOK  
UNIVERSITY  
AUSTRALIA

Cairns  
Singapore  
Townsville

2013 Annual Report  
July – December

# Australian Institute of Tropical Health and Medicine



# Annual Report

*For reporting period July 2013 to December 2014*

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# Introduction





*AITHM aims to fill a major gap that currently exists at the interface between cutting edge research and scientific expertise, and health service, workforce and policy delivery.*



*"AITHM promises to build a substantial new capacity in Australia's Health and Medical Research capability, and make a strong contribution to tropical health globally."*

**Professor Louis Schofield**  
Director, AITHM

## A Message from the Director

*I am delighted to present to you to the first Annual Report of the Australian Institute of Tropical Health and Medicine (AITHM).*

AITHM is a newly established medical research institute based in the Australian tropics at James Cook University (JCU) with key nodes in Townsville, Cairns and the Torres Straits. In mid 2013, the Queensland Government committed \$42.12 million to establish AITHM. This funding is enabling AITHM to commence infrastructure projects, capacity building and research programs in Townsville, Cairns and the Torres Strait. In September 2013 AITHM received a matching commitment of \$42.12 million from the Commonwealth Government.

Through its research and innovation, and in partnership with key community organisations and health service providers, AITHM aims to fill a major gap that currently exists at the interface between cutting edge research and scientific expertise, and health service, workforce and policy delivery.

AITHM will undertake work across areas of significant interest and importance in our tropical region such as neglected tropical diseases, tropical public health, molecular diagnosis of pathogens and ways to improve the delivery of health services to rural and remote tropical communities.

This report is focussed on AITHM's first 6 months of operation. This period was characterised by the early appointments of staff, establishing governance mechanisms and initiating strategic and operational planning.

Some of the highlights of the first 6 months of operations include:

- The engagement of Dr Michael Wooldridge as Chair of the AITHM Advisory Board
- Signing an MoU with the Papua New Guinea Institute of Medical Research to collaborate on the issue of Tuberculosis and other tropical diseases
- The launch of competitive funding for research initiatives

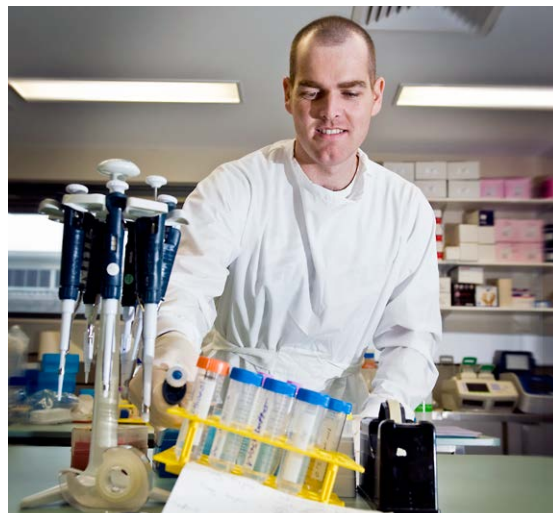
AITHM promises to build a substantial new capacity in Australia's Health and Medical Research capability, and make a strong contribution to tropical health globally.

AITHM is very appreciative of the support of our partners including the Queensland State and Australian Commonwealth governments for supporting this important initiative.

**Professor Louis Schofield**  
Director, AITHM / QTHA.

# Governance





*Our agreement with DSITIA includes a number of components all leading to sound governance and advice to the Management team of AITHM.*

*Governance, accountability and sharp leadership are important to AITHM. Our agreement with DSITIA includes a number of components all leading to sound governance and advice to the management team of AITHM.*

## Review Committee

The Review Committee monitors the compliance of AITHM's budgets and reporting to the Financial Incentive Agreement between JCU and Department of Science, Information Technology, Innovation and the Arts (DSITIA). It monitors AITHM's progress in achieving the Key Performance Indicators, considers and approves the Annual Report and approves proposed budgets and expenditure of the operational and infrastructure funding.

Professor Robert Porter is the Independent Chair of the AITHM Review Committee. Mr Mark Jacobs (State Government) and Professor Ian Wronski (JCU) form the remainder of the Review Committee.

The first meeting of the AITHM Review Committee was held on the 3rd February 2014.

## Governance Structure

The AITHM Governance Structure involves the following:

1. At the highest level AITHM will be governed through an Advisory Board. Chaired by the former Australian Federal Health Minister, the Hon Dr Michael Wooldridge, the Advisory Board is comprised of up to 12 members from external organisations and senior staff of James Cook University. The Advisory Board will be the key strategic body to drive the globally-oriented AITHM agenda.
2. The Advisory Board is supported by
  - a. The AITHM Management Advisory Committee, made up of a membership of 10 senior JCU staff. The Management Committee will seek to leverage existing strengths and opportunities to provide solid foundations for AITHM.
  - b. The Business Development Advisory Group will be responsible for assessing income and commercialisation opportunities. It will identify and recommend research consulting and commercialisation projects to the Advisory Board. With a membership of 10, the Business Development Advisory Group is made up of external members and JCU staff. The Business Development Advisory Group will be at the core of AITHM's income and commercialisation activities. It will seek to leverage on existing strengths and opportunities to provide solid foundations for AITHM in its establishment phase.

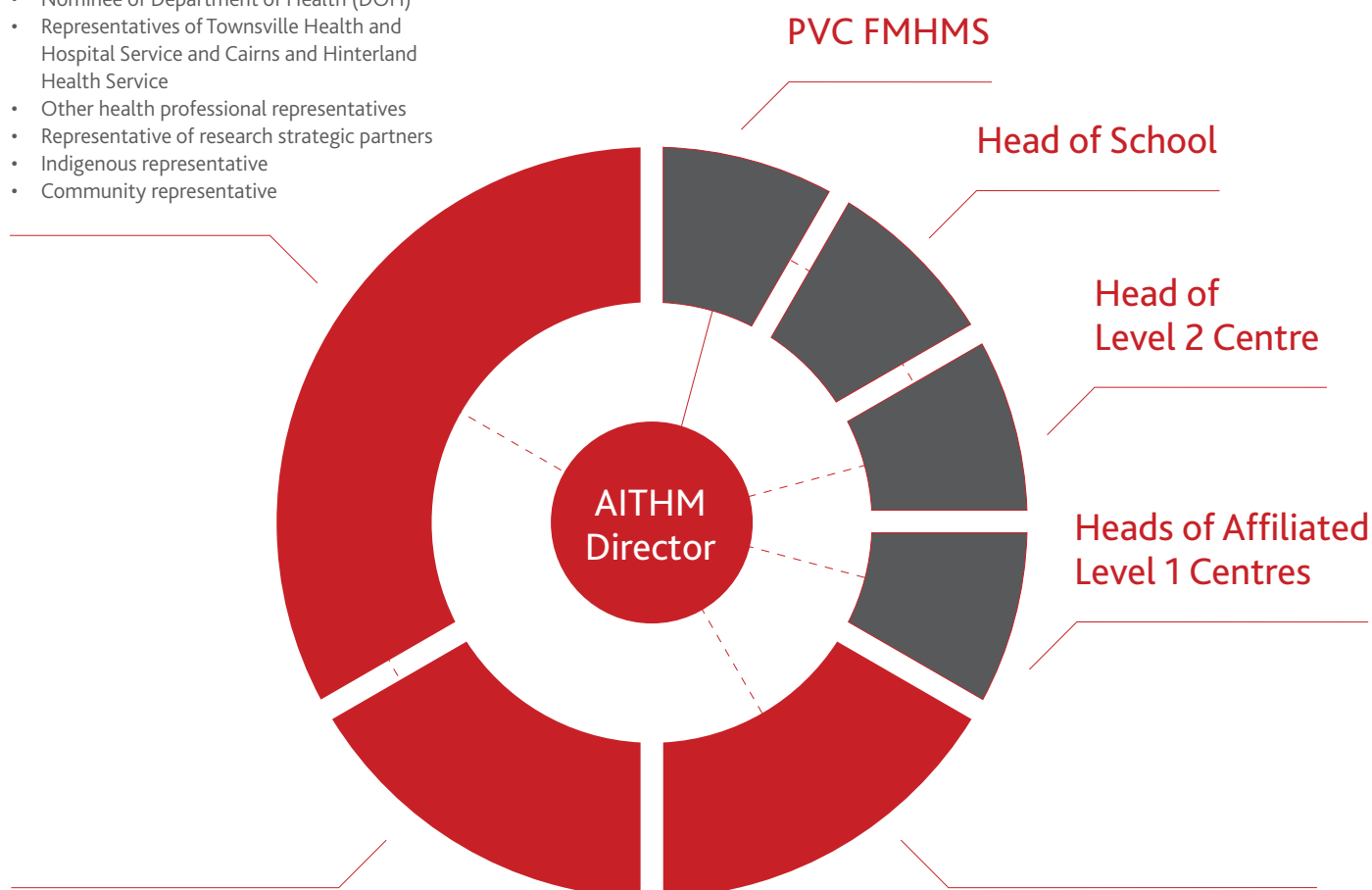
## AITHM Advisory Board

### JCU Members

- Director – Australian Institute of Tropical Medicine
- PVC – Faculty Medicine Health and Molecular Sciences
- DVC R&I or Dean of Research

### External Members

- Representative Biosecurity
- Nominee of Australian Research Council (ARC)
- Nominee of Department of Health (DOH)
- Representatives of Townsville Health and Hospital Service and Cairns and Hinterland Health Service
- Other health professional representatives
- Representative of research strategic partners
- Indigenous representative
- Community representative



## Business Development Advisory Group

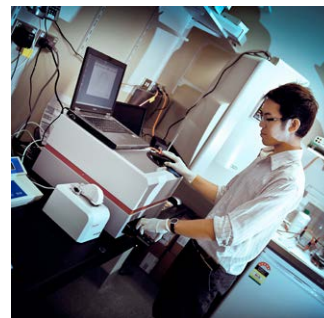
- AITHM Business Development Manager
- AITHM Director
- Affiliated Centre representatives
- Dept Health and HHS representatives
- Head of JCU Research/ Commercialisation Office
- Invited Members

## AITHM Management Advisory Committee

- AITHM Director
- PVC MHMS
- Heads of AITHM Level 1 Centres
- Faculty ADR, ADRT
- Relevant Heads of School
- Representative of researchers outside Level 1 Centres

*“Governance, accountability and sharp leadership are important to AITHM.”*





## AITHM Advisory Board

### Membership

**Hon Dr Michael Wooldridge**

*Independent Chair, Wooldridge Consulting*

**Professor Louis Schofield**

*Director, Australian Institute of Tropical Health and Medicine / Queensland Tropical Health Alliance, JCU*

**Professor Chris Cocklin**

*Senior Deputy Vice Chancellor, JCU*

**Professor Ian Wronski**

*Pro Vice Chancellor Faculty of Health, Medicine and Molecular Sciences, JCU*

**Dr Jim Thompson**

*Chief Biosecurity Officer, Qld Biosecurity*

**TBC**

*Federal Government ARC/DOH*

**Mrs Julia Squires**

*Chief Executive, Townsville Hospital and Health Service*

**Ms Julie Hartley-Jones**

*Chief Executive, Cairns and Hinterland Hospital and Health Service*

**TBC**

*Indigenous Health Representative*

**TBC**

*External Research Institute or Centre Representative*

Additional members will be brought in to the Advisory Board over the next few months.

## AITHM Management Advisory Committee

### Membership

**Professor Louis Schofield**

*Director, Australian Institute of Tropical Health and Medicine / Queensland Tropical Health Alliance, JCU*

**Professor Ian Wronski**

*PVC, Faculty of Health, Medicine and Molecular Sciences, JCU*

**Professor Alex Loukas**

*Centre for Biosecurity in Tropical Infectious Diseases and Centre for Biodiscovery and Molecular Development of Therapeutics, JCU*

**Professor Jonathan Golledge**

*NHMRC National Centre of Research Excellence to Improve Management of Peripheral Arterial Disease, JCU*

**Professor Robyn McDermott**

*Centre for Research Excellence in the Prevention of Chronic Conditions in Rural and Remote Populations, JCU*

**Professor Alan Baxter**

*Comparative Genomics Centre, JCU*

**Professor Nicolas Smith**

*Director, Centre for Biosecurity and Tropical Infectious Diseases, JCU*

**Professor Richard Murray**

*Head, School of Medicine and Dentistry, JCU*

**Professor Lee Stewart**

*Head, School of Nursing and Midwifery, JCU*

**Professor Peter Leggat**

*Head, School of Public Health, Tropical Medicine and Rehabilitation Sciences*

**Professor Juergen Reichardt**

*Head, School of Pharmacy and Molecular Science and Associate Dean Research, JCU*

**Em Professor Rhondda Jones**

*Director, Research Development, Faculty of Health, Medicine and Molecular Sciences, JCU*

**Dr Melissa Crowe**

*Associate Dean Research Training, JCU*

# AITHM Business Development Advisory Board

## Membership

**Dr Andrew Johnson**  
*Chief Operating Officer, Australian Institute of Tropical Health and Medicine, JCU*

**Professor Louis Schofield**  
*Director, Australian Institute of Tropical Health and Medicine / Queensland Tropical Health Alliance, JCU*

## Affiliated Centre Representatives

**Professor Jonathan Golledge**  
*NHMRC National Centre of Research Excellence to Improve Management of Peripheral Arterial Disease, JCU*

**Professor Alan Baxter**  
*Comparative Genomics Centre, JCU*

**Associate Professor Andreas Lopata**  
*Research Fellow, Discipline of Biochemistry and Molecular Biology, JCU*

**Professor Robyn McDermott**  
*Centre for Research Excellence in the Prevention of Chronic Conditions in Rural and Remote Populations, JCU*

**Dr Paul Giacomini**  
*Research Fellow, Australian Institute of Tropical Health and Medicine, JCU*

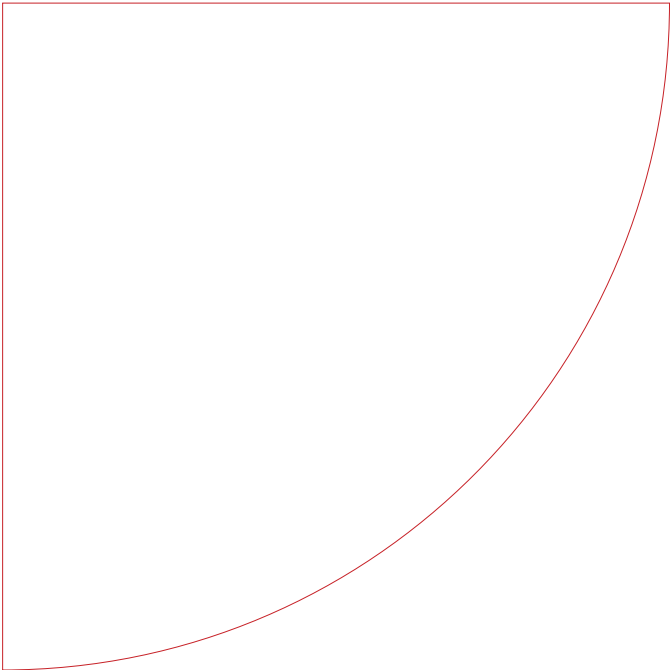
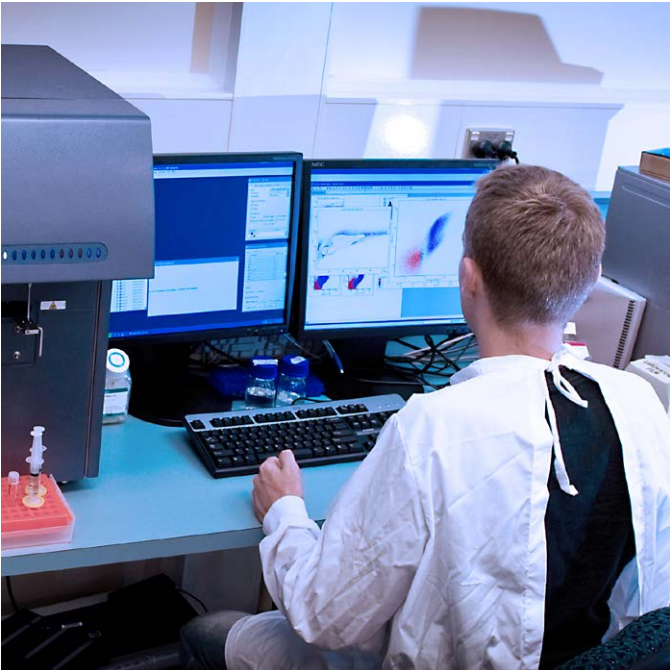
**Mrs Julia Squires**  
*Chief Executive, Townsville Hospital and Health Service*

**Ms Julie Hartley-Jones**  
*Chief Executive, Cairns and Hinterland Hospital and Health Service*

**Mr Jasper Taylor**  
*Head, JCU Research Office*

**Em Professor Rhondda Jones**  
*Director, Research Development, Faculty of Health, Medicine and Molecular Sciences, JCU*

**Dr Andrew Leech**  
*Manager, Innovation and Commercialisation, JCU*





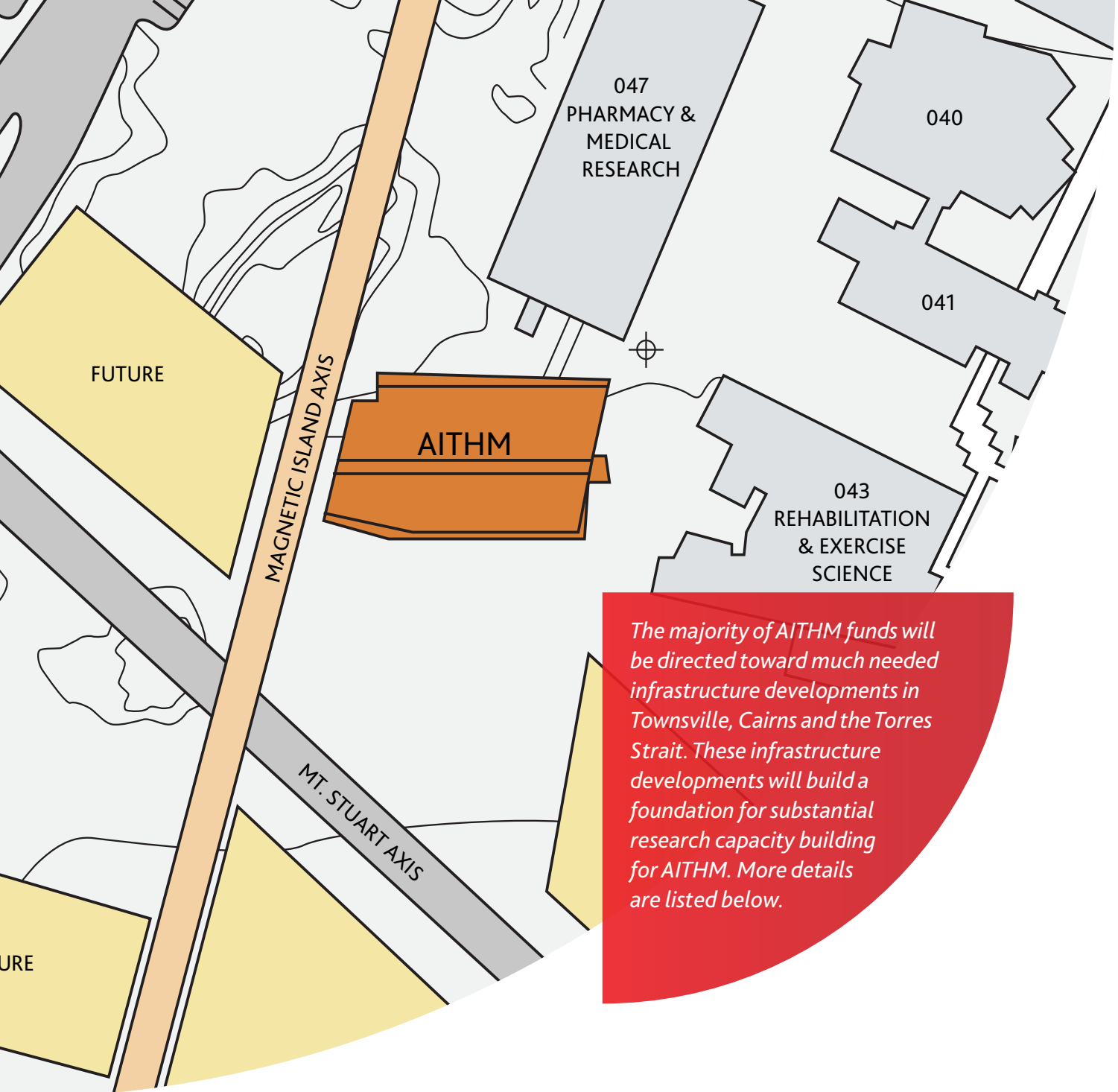


# AITHM Executive Group

*As an Interim measure in 2013 an executive team comprised of Professor Ian Wronski, Professor Louis Schofield, Emeritus Professor Rhondda Jones, Mr Geoff Gorton and Dr Andrew Johnson (from 23 September 2013) provided leadership in the establishment of AITHM.*

Geoff Gorton, Faculty General Manager, bore prime responsibility for operations in the early stages prior to the appointment of the COO. The end of 2013 saw the engagement of The Hon Dr Michael Wooldridge as Chair of the AITHM Advisory Board and the formation of membership for the Board and two supporting Committees.

# Infrastructure

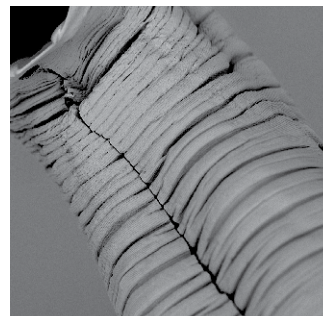
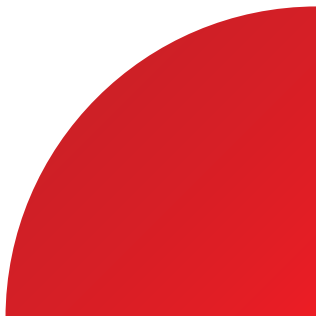


*The majority of AITHM funds will be directed toward much needed infrastructure developments in Townsville, Cairns and the Torres Strait. These infrastructure developments will build a foundation for substantial research capacity building for AITHM. More details are listed below.*

## Townsville

*AITHM facilities are being developed in Townsville relying on \$21,490,000 of the State Government Funding. Project Control Group (PCG) meetings are held on a monthly basis with the first meeting held prior to the establishment of AITHM on 4th February 2013. User Groups meetings have been held on numerous occasions.*





## Project Control Group Members

### **Hilary Kavanagh**

*Director Estate Office (Chair)*

### **Geoff Gorton**

*Faculty General Manager, Faculty of Medicine,  
Health and Molecular Sciences*

### **EM Professor Rhondda Jones**

*Emeritus Adjunct Professor, Faculty of Medicine,  
Health and Molecular Sciences*

### **Prof Louis Schofield**

*Director, AITHM / QTHA*

### **Dr Andrew Johnson**

*Chief Operating Officer, AITHM*

### **Matthew Joyce**

*Deputy Director, Planning and Development,  
Estate Office (Deputy Chair)*

### **Prof Natkunam Ketheesan**

*Professor, Discipline of Microbiology and Immunology*

### **Les Brice**

*Project Manager, Estate Office*

## Consultant Team

### **David Trott**

*Jackson Architects – Director*

### **Richard Sale (lead)**

*Jackson Architects – Senior Architect*

### **Gary Carter**

*Jackson Architects – Project Architect*

### **Vic Benacovic**

*Jackson Architects – Support Briefing Architect*

### **James Andrews**

*Jackson Architects – Support Briefing Architect*

### **Deb Fisher**

*Fisher Buttrose Architects*

### **Chris Marais**

*Rider Levett Bucknall – Principal Quantity Surveyor*

### **Jim Krebs**

*Rider Levett Bucknall – Quantity Surveyor*

### **Ray Argue**

*Certis – Energy Consultant*

### **Matt Marianayagan**

*Certis – ESD Consultant*

### **Peter Hofstetter**

*Certis – Building Certification and DDA*

### **Phil Lucas**

*SPP – Hydraulic Engineer*

### **Peter Dart**

*SKM – Mechanical Engineer*

### **James Hayson**

*SKM – Project Mechanical Engineer*

### **Brian Wooldridge**

*Opus – Civil Engineer*

### **Dr Charles Jetann**

*Opus – Structural Engineer*

### **Anthony Mallam**

*Opus – Structural Engineer*

## Progress

*The total budget for Townsville is currently \$22,990,000 which includes a \$1,500,000 contribution made by JCU.*

Additional funding of \$8,000,000 has been committed through Federal Government funding to deliver a Translational Research Facility (TRF) next to AITHM. Consultants are currently working to align the TRF and seek cost savings by a single tender.

The project is in the design phase with principal and sub-consultants working on the design development.

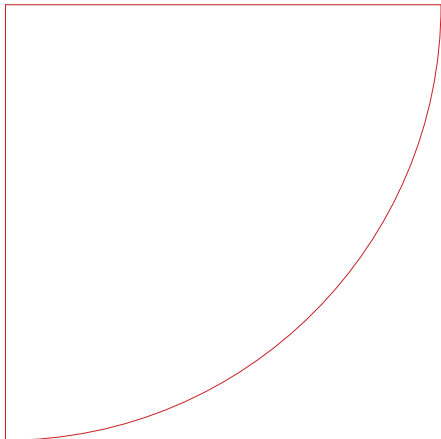


## Milestone Report

MILESTONE	COMMENCE	COMPLETE	DURATION
Concept / Return Brief	12 June13	30 Aug 13	3 months
Schematic Design	30 Aug 13	17 Jan 14	7 months
Design Development	15 Sept 13	4 Mar 14	5.1 months
Contract Documentation	7 Mar 14	13 June 14	3.1 months
EOI/ Evaluation	1 May 14	12 June 14	1.2 months
Tender/Evaluation	11 July 14	5 Sept 15	2 months
Early Works Infrastructure Construction	1 April 14	5 Sept 15	5 months
Construction	23 Sept 14	30 Jan 16	18 months
Training / Commissioning	25 Jan 16	4 April16	2.5 months
Practical Completion	05 April 16		
Defects Period	6 April16	5 April 17	12 months



*Proposed AITHM Townsville building*



# Cairns

*AITHM facilities are also being developed in Cairns.*

## Progress

The budget for Cairns is made up of \$6,500,000 of State Funds and an additional \$18,000,000 from the Federal Government commitment. The project includes a new research building on Smithfield campus, as well as renovated space in an existing building, E1. Project initiation has commenced with Project Control Groups and User Group being established and Terms of Reference being endorsed. Richard Sale from Jackson Architects has been engaged to scope the room schedules and outline the scope of work.

The university is likely to delay tender of the design consultants until the Federal Government funding is confirmed.





Queensland Tropical Health Alliance building, Cairns. James Cook University has well established protocols for project management and user group interactions in the development of large scale infrastructure for research purposes.

*The membership of the Project Control Group and User Group are listed below:*

## PCG Members

### Chair of PCG

*Hilary Kavanagh, Director, Estate Office*

### Faculty Representative

*Geoff Gorton, Faculty General Manager,  
Faculty of Health, Medicine and Molecular Sciences*

### User Representative

*Prof Louis Schofield, Director AITHM/QTHA*

### User Representative

*Andrew Johnson COO AITHM*

### User Representative

*Prof. Alex Loukas*

### Planning and Development Representative – Alternate Chair of PCG.

*Matthew Joyce, Deputy Director,  
Planning and Development, Estate Office*

### The Project Manager

*Rachel Argent, Project Manager,  
Planning and Development, Estate Office*

### Invitee – Principal Consultant

*TBA*

### Invitee – Quantity Surveyor

*TBA*

## User Group Members

### Chair of User Group

*Geoff Gorton, Faculty General Manager,  
Faculty of Health, Medicine and Molecular Sciences*

### The Project Manager

*Rachel Argent, Project Manager,  
Planning and Development, Estate Office*

### User Representative 1

*Prof Louis Schofield, Director AITHM/QTHA*

### User Representative 2

*Dr Andrew Johnson COO AITHM*

### User Representative 3

*Prof. Tom Burkot or Prof. Scott Ritchie*

### User Representative 4

*Prof. Norelle Daly*

### User Representative 5

*Prof. Robyn McDermott*

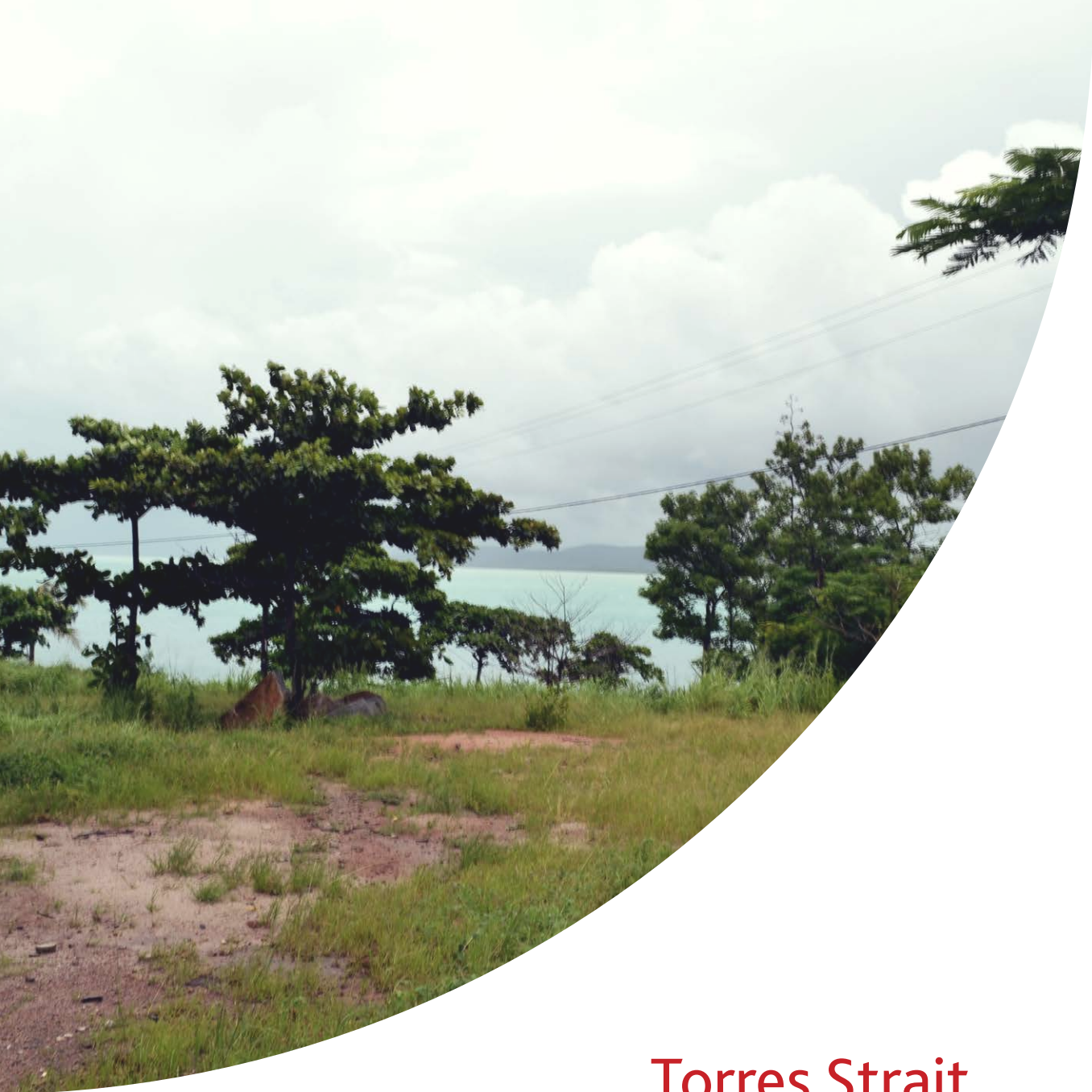
### User Representative 6

*Tracey Edwards*

### Invitee – Briefing Architect

*Richard Sale*





## Torres Strait



*Proposed Torres Strait site.*

*AITHM facilities will be developed in the Torres Strait with \$6,330,000 of Queensland state funding.*

*While the Project Control Group and User Group have not been formed, an internal JCU project manager has been appointed.*

### Progress

Negotiations for land tenure are underway. The University is in negotiation with State Government and local community groups to acquire a parcel of land.



# Highlights



Image of a dog hookworm *Ancylostoma caninum*

## Appointment of Advisory Board Independent Chair

### The Hon Michael Wooldridge

In December 2013, The Hon Dr Michael Wooldridge was offered the role of the Independent Chair of the AITHM Advisory Board. Dr Wooldridge has extensive experience as the Federal Health Minister, a strategic and regulatory advisor to a large range of Australian and overseas companies and organisations in the healthcare, technology and biotechnology fields. Board experience across government, business and health in leading board members and senior management teams are all skills that Dr Wooldridge will bring to AITHM.

## Development Grants 2014 (AITHM)

In 2013 AITHM offered a number of Development Grants for expenditure in 2014. The aim of these grants was to develop AITHM's research excellence, research capacity and spheres of collaborative effort. The applicants needed to demonstrate research excellence; and an ability to expand and leverage this investment in areas of existing research strength, external collaboration, interdisciplinary research and capacity building.

The Priority Research Areas were Tropical Population Health and Tropical Diseases and Vectors. In all, 5 development grants were awarded to the following JCU staff members with a total of \$157,000 being awarded –

### **Professor Thomas Burkot**

\$35,000 grant for SEMAT Surveillance of Anophelines

### **Paula Clancy**

\$35,000 grant for Heart-Beat: Diabetes research from the Bench to the real world practice

### **Emeritus Professor Rick Speare**

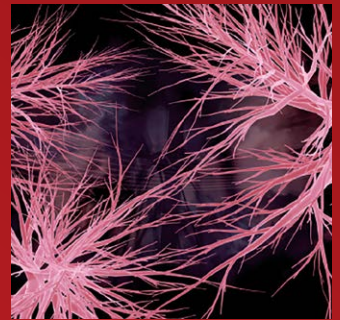
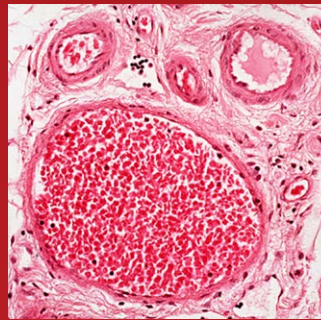
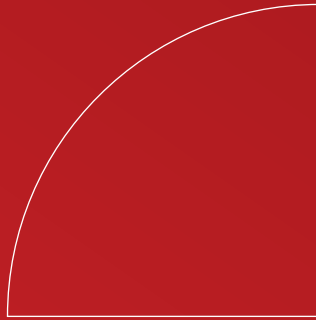
\$35,000 grant for Elimination of Soil Transmitted Helminths; One village at a time

### **Dr Patricia Graves**

\$35,000 grant for Lymphatic Filariasis in American Samoa

### **Associate Professor Michael Oelgemoeller**

\$17,000 grant for Sustainable production of artemisinin



*In 2013 AITHM offered a number of Development Grants for expenditure in 2014. The aim of these grants was to develop AITHM's research excellence, research capacity and spheres of collaborative effort.*



## Faculty Grant Scheme 2013 (AITHM)

*AITHM members were successful in obtaining Grants in 2013, totalling \$176,138.*

**Dr Mark Pearson**

\$20,000 grant for Schistosomiasis Vaccines

**Dr Nagaraja Haleagrahara**

\$15,000 grant for Flavonoids and Rheumatoid Arthritis

**Dr Severine Navarro**

\$20,000 grant for Suppression of allergic asthma with recombinant hookworm protein

**Dr Paul Giacomini**

\$19,850 grant for Memory Immunity to Intestinal Worms

**Dr David Wilson**

\$7,000 grant for Detection of the Ns1 Protein In Dengue Patients

**Dr Ioana Bowden**

\$6,343 grant for Development of Medical Imaging Agents

**Dr Cinzia Cantacessi**

\$19,800 grant for Hookworm induced changes of gut microbiota

**Dr Michael Smout**

\$19,670 grant for Transcriptional Influences of Granulin

**Dr Ernest Jennings**

\$10,700 grant for Jelly Fish Toxins on Cell Excitability

**Dr Javier Sotillo**

\$19,675 grant for Novel Functional Interactions at the Host parasite Interface

**Dr Fiona Baird**

\$18,100 grant for Anisakis Novel Allergens



# NHMRC Grants

*AITHM members were successful in obtaining NHMRC grants in 2013*

YEAR APPLIED	FUNDING TYPE	FUNDING SUB TYPE	SCIENTIFIC TITLEW	SIMPLIFIED TITLE	CIA	ADMIN INSTITUTION	BUDGET TOTAL
2013	NHMRC Project Grants	Standard Project Grant	Quality improvement in Aboriginal primary health care: lessons from the best to better the rest.	Quality improvement in Aboriginal primary health care: lessons from the best to better the rest.	A/Pr Sarah Larkins	James Cook University	\$598,580
2013	NHMRC Project Grants	New Investigator Grant	Does renal denervation promote atherosclerosis?	Does renal denervation promote atherosclerosis?	Dr Yutang Wang	James Cook University	\$291,689
2013	NHMRC Project Grants	Standard Project Grant	Assessment of the efficacy of a brief behaviour intervention designed to improve physical activity in patients with peripheral artery disease.	Brief behavioural Intervention for Peripheral artery disease (BIP).	Prof Jonathan Colledge	James Cook University	\$662,913
2013	Early Career Fellowships (Australia)	Australian Training ECF for Aboriginal and Torres Strait Islander Health Research	Resilience in individuals and families coping with the impacts of alcohol related injuries in remote Indigenous communities: a program of mixed method research.	Resilience in individuals and families coping with the impacts of alcohol related injuries in remote Indigenous communities.	Dr Caryn West	James Cook University	\$304,596
2013	Early Career Fellowships (Australia)	Australian Training ECF for Aboriginal and Torres Strait Islander Health Research	Improving pre-pregnancy health and pregnancy outcomes in north Queensland Aboriginal and Torres Strait Islander communities.	Improving mother's and babies health in north Queensland.	Dr Sandra Campbell	James Cook University	\$304,596

*The applicants needed to demonstrate research excellence; and an ability to expand and leverage this investment in areas of existing research strength, external collaboration, interdisciplinary research and capacity building.*





A close-up, black and white photograph of an elephant's head, focusing on the texture of its skin and the curve of its ear. A large, solid red curved shape overlays the bottom right portion of the image, creating a modern, graphic design element.

# Building Enabling Disciplines

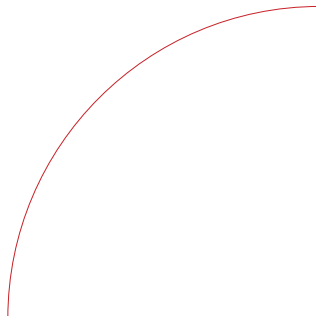
*In 2013, AITHM provided financial support to build capacity in Infectious diseases to Professor Natkunam Ketheesan, Dr Brenda Govan, and Dr Cathy Rush - School of Veterinary and Biomedical Sciences.*

They were provided relief to build capacity, specifically towards Tuberculosis Research. Their research group (Infectious Diseases and Immunopathogenesis Research Group; IDIRG) investigates host-pathogen interactions in bacterial infections relevant to the tropics. The support provided by AITHM assisted the three academics to devote more of their efforts in conducting research, expanding their research programme, recruiting additional research students, initiating new research collaborations with researchers in the Walter and Eliza Hall Institute, University of Melbourne, University of Queensland, University of Massachusetts Medical School, Swiss Tropical and Public Health Institute and the British Columbia Centre for Disease Control. In particular AITHM funding has resulted in providing much needed impetus into investigating the burgeoning problem of type-2-diabetes and infectious diseases nexus, namely co-morbidity of type-2-diabetes and tuberculosis.



*In 2013 AITHM and the School of Veterinary and Biomedical Sciences jointly purchased an inhalation exposure system (IES) for expanding the work into respiratory pathogens such as *Burkholderia pseudomallei* (Bps) and *Mycobacterium tuberculosis* (Mtb) in animal models in a PC3 environment.*





Inhalation exposure system (IES)

## Staff Appointments

**Professor Louis Schofield**  
*Director*

Started – mid 2013  
As Director of AITHM Louis provides research and overall leadership of the Institute.

**Andrew Johnson**  
*Chief Operating Officer (COO)*

Started - 23 September 2013.  
As the Chief Operating Officer (COO), Andrew provides operational leadership to AITHM.

**Brooke Fitzsimmons**  
*Senior Administration Officer*

Started - 7 November 2013.  
As the Senior Administration Officer for AITHM, Brooke manages the administration of activities of the AITHM. She supports the COO, Director and governance.

**Moira McCann**  
*Laboratory Manager, Townsville*

Started - 25th November 2013.

As the Laboratory Manager for AITHM Moira manages all aspects of laboratory safety for the new Australian Institute of Tropical Health and Medicine (AITHM) building that will include a mouse house, PC3, PC2 laboratory. Moira is responsible for developing, maintaining and promoting policies and procedures to maintain a healthy workplace with AITHM; assisting research group leaders, managers and supervisors to effectively administer WH&S as an integral part of the Institute's operations; maintaining systems related to regulatory requirements for WH&S, quarantine, customs, radiation, chemical, and biological safety.

**Jodie Morris**  
*Senior Research Associate, Townsville*

Started - 1st January 2014

Dr Jodie Morris is a Postdoctoral Research Fellow within the Infectious Disease and Immunopathogenesis Research Group (IDIRG) which is part of the AITHM. Studies within this programme are aimed at determining the function of immune cells and their interaction with the bacterium *Burkholderia pseudomallei* in diabetics, to determine why patients with diabetes are more prone to infections such as melioidosis and TB. Human blood tests and rodent models are being used to determine the interaction between bacterial and host factors that contribute to the high burden of infection observed among diabetics.

## New Equipment

In 2013 AITHM and the School of Veterinary and Biomedical Sciences jointly purchased an inhalation exposure system (IES) for expanding the work into respiratory pathogens such as *Burkholderia pseudomallei* (Bps) and *Mycobacterium tuberculosis* (Mtb) in animal models in a PC3 environment.

The IES allows for reproducible exposure of laboratory animals to droplet-borne bacterial pathogens to produce deep-lung infections that closely simulate human respiratory infections.

The availability of IES will enable AITHM to expand its research into Mtb and Bps infections and further strengthen its research programmes with Menzies School of Health Research, University of Queensland, University of Massachusetts Medical School, Swiss Tropical and Public Health Institute and the British Columbia Centre for Disease Control.



*Prof Andreas Suhrbier*

*QIMR Berghofer Medical Research Institute.*



## Seminar Series

### *AITHM held four seminars in 2013 including;*

Friday 8th November 2013, 12 noon – 1pm

"AITHM: current overview" presented by Prof Louis Schofield, Director AITHM and QTHA, James Cook University

JCU Townsville 40-103 Padua theatre videolinked to JCU Cairns E4.104 boardroom

Friday 22nd November 2013, 2 - 3pm

"Is there more to peripheral vascular disease than good and bad cholesterol?" presented by Dr Joe Moxon, Vascular Biology Unit and AITHM, James Cook University

JCU Townsville 40-103 Padua theatre videolinked to JCU Cairns B1.031 Library

Wednesday 4th December 2013, 2pm

"Threats from and interventions for chikungunya virus, a re-emergent arthritogenic alphavirus related to Ross River virus"

Prof Andreas Suhrbier, QIMR Berghofer Medical Research Institute

James Cook University (JCU) Cairns A3.2 Crowther Theatre Library videolinked to JCU Townsville 40-103 Padua theatre

Monday 16th December 2013, 3pm

"A process overlap theory of general intelligence"

Dr Kristóf Kovács, Department of Psychology, University of Amsterdam, The Netherlands

James Cook University (JCU) Townsville 40-103 Padua theatre videolinked to JCU Cairns B1.031 Library





*"We need to deal with emerging infectious diseases before they become established as public health emergencies. This is not only about health but protecting our economy in sectors like agriculture. An LNP government will secure our borders through early detection and response in order to achieve the best health outcomes and protect Queensland"*  
Mr Campbell Newman,  
Queensland  
Premier

## Media attention

*AITHM issued one media release in December and this generated nine related media stories*

### ABC North Queensland

Townsville, 18 December 2013 – Research into malaria and intestinal worms in Tropical North Qld

### ABC Far North

Cairns, 18 December 2013 – Malaria and intestinal worm research in Tropical North Queensland

### Seven Cairns

Seven Local News, 18 December 2013 – James Cook University scientists are set to benefit from around \$150,000 worth of funding

### WIN Townsville

WIN News, 18 December 2013 – \$150,000 in research grants will help scientists learn more about mosquitoes and the diseases they carry

### Seven Townsville

Seven Local News, 18 December 2013 – Scientists will benefit from \$150,000 worth of funding for projects based on tropical health

### ABC North Queensland

Townsville, 6.30 News, 19 December 2013 – A Chinese delegation has arrived in North Qld to learn more about the region's reef and coastal management

### ABC North Queensland

Townsville, 7.30 News, 19 December 2013 – A Chinese delegation has arrived in North Qld to learn more about the region's reef and coastal management

### Radio 4KZ

Innisfail, 19 December 2013 – The Newsman Government has announced the recipients of the Australian Institute of Tropical Health and Medicine Development Grants

### Townsville Bulletin

19 December 2013 – Scientists to map mozzies



*Left to right: Dr David Wilson and Hon Ian Walker – Qld Minister for Science Information Technology Innovation and the Arts.*



*Left to right : Professor Sandra Harding – Vice Chancellor JCU, Mr Xhao Yongchen - Chinese Consul in Brisbane , Hon Ian Walker – Qld Minister for Science, Information Technology, Innovation and the Arts.*



*Left to right: Professor Rick Speare and Hon Ian Walker – Qld Minister for Science, Information Technology, Innovation and the Arts.*

## Special Events

### October 2013

The Hon Ian Walker, Queensland Minister for Science, Information Technology, Innovation and the Arts visited the JCU Cairns Campus.

### 19th December 2013

The Hon Ian Walker, Queensland Minister for Science, Information Technology, Innovation and the Arts visited Townsville Campus.

## Sponsorship

AITHM sponsored the international meeting Helminth Immunomodulators: Molecules in the Hygiene Hypothesis, Hydra, Greece, August 28th - September 1st, 2013 and the Queensland Tropical Health Alliance (QTHA) and Australasian College of Tropical Medicine (ACTM) conference held from the 7th -8th September 2013 in Cairns.

# Breakthroughs

## Federal Commitment of Matching Funds

In a demonstration of its strong commitment to building national capacity in Tropical Health and Medical research the Federal Government committed to match the Queensland State Government funding of \$42 million. Following on from this election commitment in September 2013 AITHM and the State Government have worked to secure this funding and this will continue into 2014.

## Appointment of Advisory Board Independent Chair

**The Hon Michael Wooldridge**

In December 2013, The Hon Dr Michael Wooldridge was offered the role of the Independent Chair of the AITHM Advisory Board. Dr Wooldridge's extensive experience as the Federal Health Minister coupled with his engagement with Australian and overseas companies in healthcare, technology and biotechnology fields will bring world class skills to AITHM and its Advisory Board.

## Appointment of Director

**Professor Louis Schofield**

In mid-2013 Professor Louis Schofield was appointed Director of AITHM on a 50% basis. He also maintains responsibilities to the Queensland Tropical Health Alliance and the Walter and Eliza Hall Institute. As Director of AITHM, Louis provides research and overall leadership of the Institute.

## Townsville Planning

Substantial progress has been made in the planning for AITHM infrastructure at the Townsville Campus. Following numerous user group meetings and project control group meetings by the end of 2013 near to complete designs suitable to tender for the project had been finalised.

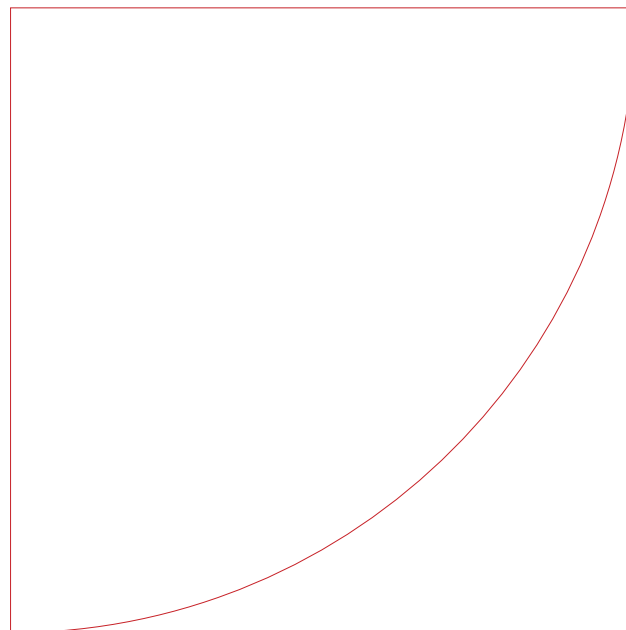
## Informal Steering Committee

Sound communications and governing mechanisms have been established between AITHM / JCU and DSITIA through its Informal Steering Committee. Meeting monthly and consisting of representatives of JCU and DSITIA the Informal Steering Committee provides a valuable forum for both organisations to monitor the development of AITHM's infrastructure and operational progress.

## Challenges

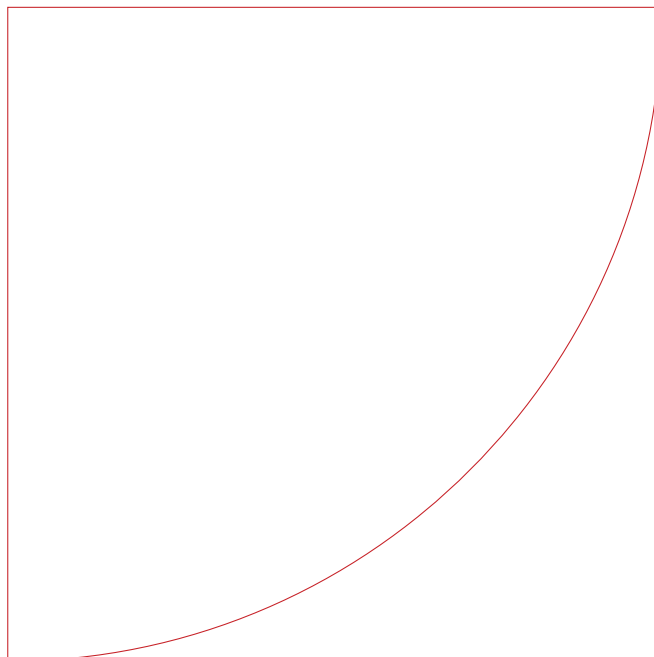
AITHM has encountered minor difficulties in 2013. The natural progression of a start-up including timeframes, appointing new staff, initiating a strategic planning processes and implementing operational plans are expected in the early stages. The AITHM Executive have been working hard to establish the systems and infrastructure to establish the governance, finance, profile and other foundations to build on the ambitious agenda of AITHM.

In 2014 AITHM will move quickly to establish multiple research staff positions. Strategic planning has been prioritised to ensure that a foundation is established to create a sustainable institute that will contribute to health and wellbeing of northern Australia's population and it's near neighbours.





# Progress



## Research Progress

The AITHM business plan identifies 3 research priorities being:

- Australia's Health Security and Biosecurity
- Health in Rural, remote, Indigenous and tropical Australia
- Health in tropics regionally and globally

The first six months of AITHM activities have been characterised by planning, building research capacity and collaborative partnerships. At the forefront has been the building of specialised research capacity in Tuberculosis (TB) research and infrastructure at JCU's Townsville laboratories.

This research capacity has included the appointment of specialised laboratory staff trained in techniques to work with TB such as nebulising laboratory animals and commissioning specialised equipment (IES) required for the work in TB.

Our researchers have been involved in helping to establish AITHM and have played a major role in the development. Researchers have embraced the new Institute and many have participated in the seminar series, special events and media. AITHM research grants have helped to develop AITHM's research excellence, research capacity and spheres of collaborative effort.

The establishment of research partnerships has been an important foundation activity to allow AITHM to understand the nature and extent of TB in our Northern region. The MOU signed in December 2013 and ongoing planning with Papua New Guinea Institute of Medical Research (PNG IMR) is a central platform for AITHM to build an evidence base of risk of TB transmission.

The potential for external funding for TB research undertaken by AITHM in PNG exists through the international body Aeras. Aeras and AITHM are developing a program of research into TB in PNG. TB is not the only focus for AITHM with Neglected Tropical Diseases (NTD) also featuring in our planning and discussions. The work focussing on TB in PNG is part of the first and third research programs for AITHM and is of the highest priority for AITHM in its early stages.

Detailed description of AITHM's proposed research programs as follows:



*The establishment of research partnerships has been an important foundation activity to allow AITHM to understand the nature and extent of TB in our Northern region.*





# Program 1

## Australia’s Health Security and Biosecurity

AITHM is providing essential research capacity and enabling infrastructure in preparation for potentially significant health security threats Based in North and Far North Queensland, including the Torres Strait, AITHM will be at the front line of these challenges, and as such will identify threats quickly and target research endeavours to real risk and disease burden, informing health system interventions.

Better prevention, diagnosis and treatment of tropical infectious diseases are also areas of massively increasing global demand – and tropical Australia is a source of undiscovered bioactive compounds with pharmaceutical potential. AITHM’s research endeavours to capture the rapidly expanding global market in tropical health solutions.

HEALTH SECURITY AND BIOSECURITY	
Risks	AITHM solutions
Disease incursion through Indo-Papuan corridor.	Serve as an intellectual hub for research on existing and emerging tropical diseases across the tropical world to maximise quality and impact of research.
New diseases become established as public health issues in Australian communities.	Discover ways to limit endemic infectious diseases of the Asia-Pacific, such as tuberculosis, and to prevent or decrease transmission to Australians.
Health system and workforce capacity of Australia’s regional neighbours remain limited.	Assist with the early detection of any incursions to maximise the timeliness and effectiveness of interventions and facilitate the coordination of clinicians and researchers in responding to new threats.
	Pioneer novel therapies, vaccines and interventions.
	Provide training programs for health workers from Australia and the region, particularly in disease surveillance and control, and risk identification.
	Discover innovative ways to improve the health and health system capacity of Australia’s regional neighbours, contributing to global efforts to reduce the burden of tropical infectious disease.





# Program 2

## Health in Rural, Remote, Indigenous and Tropical Australia

AITHM will undertake targeted translational research and evaluation of models of care within an integrated, collaborative, and multidisciplinary clinical research environment. AITHM will ensure that research and primary data inform health system delivery and responsiveness, underpinned by a focus on real risk and burden of disease in priority populations. This approach will maximise the contribution of research to improving health outcomes and health workforce capacity in many long underserved communities in regional, rural and remote Australia.

Finding solutions to the many complex problems requires innovative, translational research and a coordinated approach across the health system, and AITHM is well-placed to utilise new opportunities presented by the recently devolved local health authorities. A focus on tropical and non-communicable diseases and their intersection is also highly relevant to industry in northern Australia, including agribusiness, mining and tourism. Further, as these issues are also of growing interest globally, AITHM’s research will enhance opportunities for engagement with the growth economies of Asia by increasing Australia’s knowledge-intensive academic, research and health systems capacity.

RURAL, REMOTE AND INDIGENOUS HEALTH	
Risks	AITHM solutions
Health outcomes poorer in rural, remote and Indigenous communities.	Generate sufficient primary data to inform health system delivery and responsiveness, underpinned by a focus on the real risk and burden of disease in priority populations.
Lifestyles and employment involving greater health risks.	Initiate studies into the intersection of communicable and non-communicable diseases in rural, remote and Indigenous populations.
Maldistribution of health professionals.	Develop strategies to map the varied clinical service and health workforce requirements of rural and remote communities, particularly in northern Australia.
	Work with key health service, health workforce and government partners, and well as local communities, to develop a universal health service obligation specifying a minimum level of health services and health workforce to meet the needs of rural and remote communities.
	Provide training to develop the Australian and regional health and disease control workforce.
	Develop and test telehealth approaches to improving health services to remote communities.



## Program 3

### Health in tropics regionally and globally

This program is focussed on health and tropical disease in the South Pacific, South and East Asia, and globally, including collaboration and facilitation with regional and global partners.

It builds on strong existing and potential interactions such as;

- Tuberculosis research in PNG
- Lymphatic filariasis, soil-transmitted helminths, NTDs in PNG, Samoa, Burma
- Other nematodes and helminths – including Thailand
- Vectors in PNG, Solomon Islands
- Group A Strep/Acute Rheumatic Fever/Rheumatic Heart Disease in PNG, Fiji, Asia/Pacific
- Future virology studies including dengue and Novel Emerging and Re-emerging Infectious Diseases

Multi-lateral and bilateral agreements with universities, research organizations, NGOs and government agencies regionally and world wide, for example PNGIMR, Mahidol University, School of Tropical Medicine, Hunan Province, PRC

# Collaboration

*On 19th December 2013 AITHM signed a Memorandum of Understanding with the Papua New Guinea Institute for Medical Research (PNG IMR).*

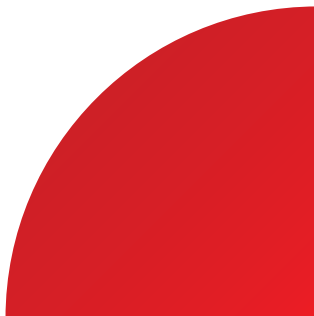
The Collaboration is focussed on research in biomedical and medical sciences relating to PNG priority health problems. The Collaboration will focus on TB and Neglected Tropical Diseases (NTD) research and control programs, with particular emphasis on molecular epidemiology, immunology, pathophysiology, genetics and intervention trials, including, but not restricted to, future vaccine trials.



*Left to right: Professor Louis Schofield - Director AITHM (background), Professor Peter Siba - Director PNG Institute of Medical Research, Professor Ian Wronski - Pro-Vice Chancellor JCU, Professor Sandra Harding - Vice Chancellor JCU*



# Personnel



*The list below includes personnel who participated in the projects activities within AITHM*

## Executive

**Professor Ian Wronski**  
*Pro Vice Chancellor  
Faculty Medicine Health  
and Molecular Sciences*

**Professor Louis Schofield**  
*Director  
AITHM / QTHA*

**Dr Andrew Johnson**  
*Chief Operating Officer  
AITHM*

**Emeritus Professor  
Rhondda Jones**  
*Adjunct Professor*

**Mr Geoffrey Gorton**  
*General Manager  
Faculty Medicine Health  
and Molecular Sciences*

**Ms Pamela Stronach**  
*Faculty Executive Officer*

## Administration Staff

**Mrs Brooke Fitzsimmons**  
*Senior Administration Officer*

**Ms Lisa Jones**  
*Communications Officer*

**Dr Moira McCann**  
*Laboratory Manager*

## Research Staff

**Professor Natkunam Ketheesan**  
*Professor*

**Dr Brenda Govan**  
*Associate Professor*

**Dr Cathy Rush**  
*Senior Lecturer*

**Dr Jodi Morris**  
*Senior Research Associate*

**Dr Paramjit Bansal**  
*Postdoctoral Research Fellow*

**Professor Alan Baxter**  
*Professor Biochemistry*

**Professor Thomas Burkot**  
*Professor*

**Dr India Bohanna**  
*Research Fellow*

**Dr Paula Clancy**  
*Research*

**Professor Alan Clough**  
*Professor*

**Professor Geoffrey Dobson**  
*Professor*

**Dr Paul Giacomini**  
*Research Fellow*

**Professor Jonathan Golledge**  
*Professor*

**Dr Susan Gordon**  
*Associate Professor  
Physiotherapy*

**Professor Bruce Gummow**  
*Professor*

**Dr Nagaraja Haleagrahara**  
*Senior Lecturer*

**Dr Margaret Jordan**  
*Senior Research Fellow*

**Dr Robert Kinobe**  
*Senior Lecturer*

**Dr Smiriti Krishna**  
*Research Fellow*

**Professor John McBride**  
*Professor in Medicine*

**Dr Joseph Moxon**  
*Research Postdoctoral Scientist*

**Dr Severine Navarro**  
*Research Officer*

**Dr Mark Pearson**  
*Research Fellow*

**Dr Stuart Ramsay**  
*Senior Lecturer*

**Professor Scott Ritchie**  
*Professorial Research Fellow*

**Associate Professor  
Jamie Seymour**  
*Associate Professor*

**Dr Javier Sotillo-Gallego**  
*Postdoctoral Research Fellow*

**Professor Linda Shields**  
*Professor of Nursing*

**Professor Nicholas Smith**  
*Professor*

**Associate Professor  
Michael Oelgemöller**  
*Associate Professor*

**Emeritus Professor Rick Speare**  
*Adjunct Professor*

**Associate Professor Jeff Warner**  
*Associate Professor*

**Dr Lyn Woodward**  
*Research Resource Manager*

**Dr Patricia Graves**  
*Senior Principal Research Fellow*

**Associate Professor  
Andreas Lopata**  
*Associate Professor*

**Professor Melanie Birks**  
*Professor Nursing Sciences*

**Associate Professor  
Zoltan Sarnyai**  
*Associate Professor*

**Dr Lee Skerratt**  
*Senior Research Fellow*

**Dr Tharun Mysore**  
*Casual Postdoctoral  
Research Officer*

**Dr David MacLaren**  
*Senior Research Fellow*

**Associate Professor  
Sabe Sabesan**  
*Clinical Dean*

**Associate Professor  
Andrew Edwards**  
*Associate Professor*

**Associate Professor  
Patrick Schaeffer**  
*Associate Professor*

**Mrs Tammy Dougan**  
*Postdoctoral Research Fellow*

**Dr David Simcock**  
*Senior Lecturer  
Physiology*

**Associate Professor Jane Mills**  
*Associate Professor*

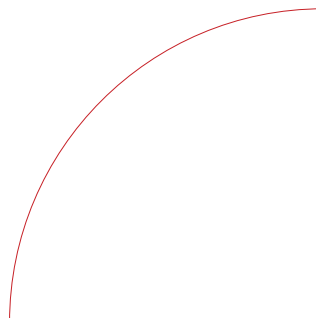
# Key Performance Indicators

# Key Performance Indicators and Outcomes

*Achievement against Key Performance Indicators from the Financial Incentive Agreement between DSITIA and JCU are addressed below:*

KEY PERFORMANCE INDICATORS FOR CALENDAR YEAR - 2013 TO 2017		2013 OUTCOMES
1. Governance		
Establish AITHM Board by 31 December 2013.	On Thursday 16th of January 2014 DSITIA accepted advice from AITHM regarding its governance structure and did not dispute any component.  Page 5 to page 9 of the Annual Report outlines the current governance structure	
Establish AITHM Business Development Advisory Group by 31 December 2013.		
Establish AITHM Management Committee by 31 December 2013.		
2. Operational and Funding Performance		
Secure on average \$1.65M per calendar year in external funding for research projects, reported as actual income for that year to AITHM.	In 2013 James Cook University researchers attracted 5 NHMRC grants at \$2.1 million in total.	
3. Human Capital Development		
Increase the number of research, technical or business development staff employed in or affiliated with the AITHM to 100 within 5 years of establishment of the AITHM (established 1 July 2013).	In 2013 5 appointments were made to AITHM: <ul style="list-style-type: none"><li>• Director, Professor Louis Schofield</li><li>• Chief Operating Officer, Andrew Johnson</li><li>• Senior Admin Officer, Brooke Fitzsimmons</li><li>• Laboratory Manager, Moira McCann</li><li>• Senior Research Associate, Jodie Morris.</li></ul>	
4. Education and Skills Development		
Capacity and capability of AITHM to educate and train post-graduate students in science research or entrepreneurial skills.		
From end of 2 years after establishment of AITHM (1 July 2013) maintain a minimum cohort of 40 PhD and Masters Degree students each year.	Not applicable	
With expectation that 25% of these students graduate each Year.	Not applicable	
5. Research and Development Excellence		
National and international recognition of AITHM as a centre of excellence in the field of tropical health research and development:		
Refereed scientific papers, published in national or international journals, books, book chapters and conference papers where AITHM researchers participate in the conference program - 50 per annum.	There were a total of 33 research publication in 2013.	





## KEY PERFORMANCE INDICATORS FOR CALENDAR YEAR - 2013 TO 2017

## 2013 OUTCOMES

### 6. Collaboration (Research)

Ability of AITHM to maintain or increase collaborative research programs linked with local, national or international research, education and commercial partners:

Visiting national and international scientists - 10 per annum.

#### **Professor Albert Ko**

*Yale School of Public Health, USA.*

#### **Professor Gerd Pluschke**

*Swiss Tropical and Public Health Institute, Switzerland.*

#### **A/Professor Andrew F. van der Hurk**

*Queensland Department of Health*

#### **Professor Denise Doolan**

*QIMR Berghofer Medical Research Institute*

#### **Professor Vicky Avery**

*Griffith University*

#### **A/Professor Alyssa Barry**

*WEHI*

#### **Dr Nigel Beebe**

*University of Queensland*

#### **Dr Ricardo Soares Magalhaes**

*University of Queensland*

#### **Professor Suresh Mahalingam**

*Griffith University*

#### **Professor Juilan White**

*The University of Adelaide*

#### **Dr Mark Little**

*Cairns Hospital*

#### **Dr Ken Winkle,**

*University of Melbourne*

#### **Dr Malcolm McDonald**

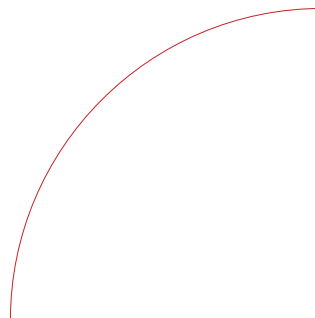
*Cairns Hospital*

#### **Emeritus Professor Graham Cooksley,**

*University of Queensland*

Within 5 years of establishment of the AITHM (1 July 2013), enter into 5 new collaborations with research, industry or business partners, including international collaborations.

AITHM signed an MoU with Papua New Guinea Institute of Medical Research on the 19th December 2013. The collaboration is a critical relationship for AITHM's work in TB and NTDs.



## KEY PERFORMANCE INDICATORS FOR CALENDAR YEAR - 2013 TO 2017

15 Conferences, seminars, forums or workshops organised by AITHM per annum focussed on exchange of research in the field of tropical health and medicine.

## 2013 OUTCOMES

There were 4 Seminar Series held in 2013 –

### Friday 8th November 2013, 12 noon – 1pm

"AITHM: current overview" presented by Prof Louis Schofield, Director AITHM / QTHA, James Cook University

JCU Townsville 40-103 Padua theatre videolinked to JCU Cairns E4.104 boardroom

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### Wednesday 4th December 2013, 2pm

"Threats from and interventions for chikungunya virus, a re-emergent arthritogenic alphavirus related to Ross River virus"

Professor Andreas Suhrbier, QIMR Berghofer Medical Research Institute

James Cook University (JCU) Cairns A3.2 Crowther Theatre Library videolinked to JCU Townsville 40-103 Padua theatre

### Monday 16th December 2013, 3pm

"A process overlap theory of general intelligence"

Dr Kristóf Kovács, Department of Psychology, University of Amsterdam, The Netherlands

James Cook University (JCU) Townsville 40-103 Padua theatre videolinked to JCU Cairns B1.031 Library

## 7. Commercialisation

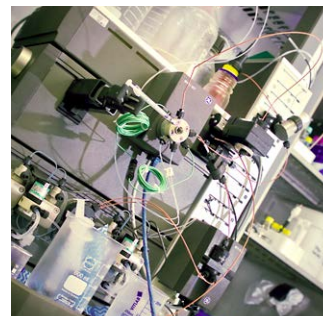
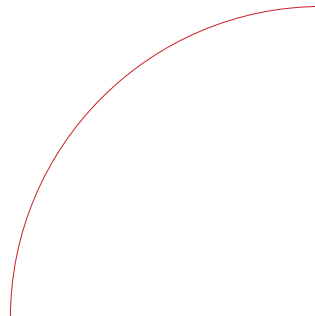
Demonstrate that AITHM's research and development program will generate, protect and commercialise new intellectual property:

Develop an AITHM Commercialisation Strategy, linked to the AITHM Business Plan, by 31 March 2014.	NA for 2013
Through the activities of JCU's Manager, Innovation and Commercialisation, identify 5 'Discoveries' per annum ('Discoveries' means AITHM research outcomes for which JCU carries out due diligence activities including market testing and patent searches).	NA for 2013

## 8. Impact

Demonstrate leadership in transfer of research innovations into public policy and to the field of tropical science or industry:

1 conference per annum focused on engaging end-users of technology eg. clinicians, field workers, policy-makers.	The inaugural AITHM conference is planned for September 2014 and is to be held in Palm Cove.
1 case study per annum on research outcomes demonstrating research impact and benefit to Queensland derived from the AITHM Activities.	Not applicable



## KEY PERFORMANCE INDICATORS FOR CALENDAR YEAR - 2013 TO 2017

## 2013 OUTCOMES

### 9. Community Engagement

Capacity and capability of AITHM to inform and engage the community in the activities conducted at the AITHM:

5 community events involving presentations by AITHM researchers on average per annum.

**Prof Jamie Seymour** presented to students from Cairns State High School involved in their HOT CHILLIs – Higher Order Thinking through Cairns High's Investigative Leadership Lecture and Inquiry Series. The overall aim of the project is to cater for, and extend, academically gifted students through a range of sub projects.

**Prof Alex Loukas and Prof Nick Smith** presented about their research on tropical neglected diseases to science and geography students at Mareeba State High, Thursday, 12th Sept 2013.

AITHM sponsored the international meeting Helminth Immunomodulators: Molecules in the Hygiene Hypothesis, Hydra, Greece, August 28th - September 1st, 2013 and the Queensland Tropical Health Alliance (QTHA) and Australasian College of Tropical Medicine (ACTM) conference held 7-8 September 2013 in Cairns.

4 newsletters and 1 public lecture promoting AITHM research and research outcomes to the research community and the community in general.

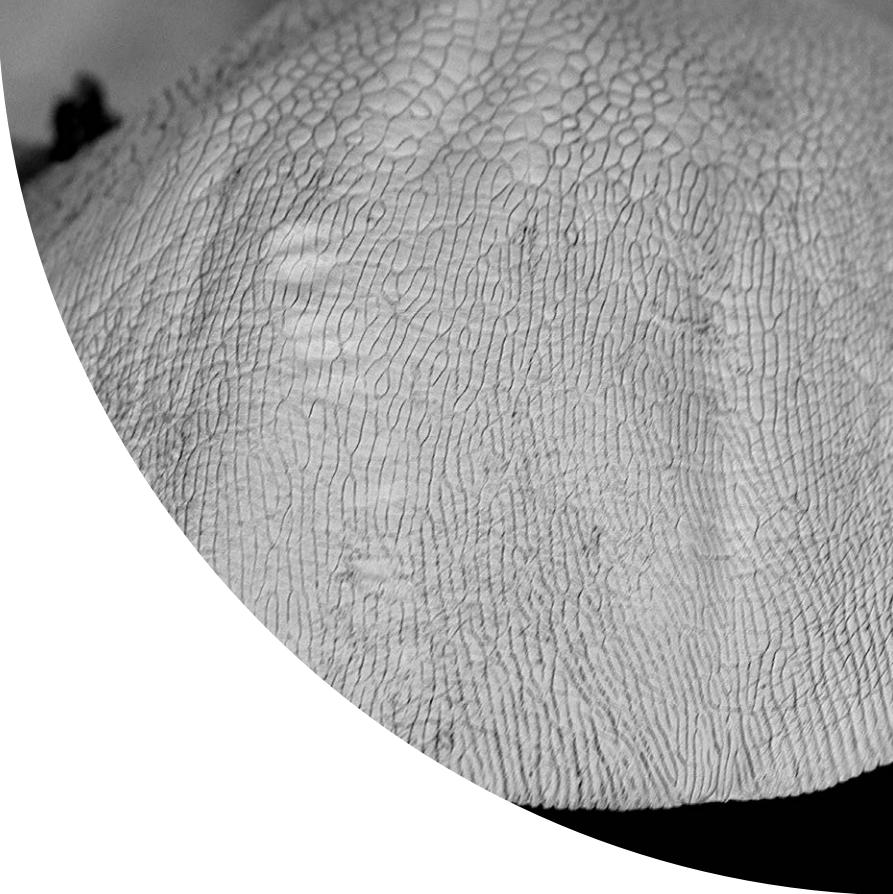
The AITHM newsletter was delayed due to appointments in staff and marketing collateral.

Public Lecture –

**"Bats and Health - Time for a Tree Change?"** free public forum and debate took place Saturday 7th September 2013, from 530pm, at the Pullman Cairns International Hotel, Cairns. Prof John McBride, James Cook University, Dr David Westcott, CSIRO, and Dr Trent Yarwood, Queensland Health & Cairns Hospital discussed bat viruses and moving bat colonies and the impact on human health. This event attracted 100 members of the general public and was featured as part of the annual conference for the Queensland Tropical Health Alliance (QTHA) and Australasian College of Tropical Medicine (ACTM).

# Publications





# Overview

Overview of 2013 Faculty health related Research Publications. This list shows a total of 431 publications including journal articles, conference papers, book chapters, books, and consultancy reports published in 2013 in alphabetical order (by first author).

## Journal Articles

Abdel Rahman, A.M., Kamath, S.D., Gagné, S., Lopata, A.L., Helleur, R. Comprehensive proteomics approach in characterizing and quantifying allergenic proteins from northern shrimp: Toward better occupational asthma prevention (2013) *Journal of Proteome Research*, 12 (2), pp. 647-656. Cited 3 times.

Abramovitch, Jodie B., Kamath, Sandip, Varese, Nirupama, Zubrinich, Celia, Lopata, Andreas L., O'Hehir, Robyn E., and Rolland, Jennifer M. (2013) IgE reactivity of blue swimmer crab (*Portunus pelagicus*) tropomyosin, Por p 1, and other allergens; cross-reactivity with black tiger prawn and effects of heating. *PLoS ONE*, 8 (6). pp. 1-13.

Ahimastos, Anna A., Walker, Philip J., Askew, Christopher, Leicht, Anthony, Pappas, Elise, Blombery, Peter, Reid, Christopher M., Golledge, Jonathan, and Kingwell, Bronwyn A. (2013) Effect of Ramipril on walking times and quality of life among patients with peripheral artery disease and intermittent claudication: a randomized controlled trial. *JAMA: Journal of the American Medical Association*, 309 (5). pp. 453-460.

Ahlen, Gerd Carlsson, and Gunnarsson, Ronny K. (2013) The physician's self-evaluation of the consultation and patient outcome: a longitudinal study. *Scandinavian Journal of Primary Health Care*, 31 (1). pp. 26-30.

Aida, Shin, Nishiyama, Yasuhiro, Kakiuchi, Kiyomi, Hoffmann, Norbert, Fon, Adeline, and Oelgemoeller, Michael (2013) Microflow photochemistry – acetone sensitized addition of isopropanol to (5R)-5-menthyloxy-2-(5H)-furanone. *Rapid Communication in Photoscience*, 2 (3). pp. 68-71.

Akcan, M., Stroud, M.R., Hansen, S.J., Clark, R.J., Daly, N.L., Craik, D.J., Olson, J.M. Erratum: Chemical re-engineering of chlorotoxin improves bioconjugation properties for tumor imaging and targeted therapy (*Journal of Medicinal Chemistry* (2011) 54 (782-787) DOI: 10.1021/jm101018r) (2013) *Journal of Medicinal Chemistry*, 56 (23), p. 9807.

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# Conclusion



*The first six months of AITHM's operations have created a platform for the future development of a substantial new capacity in Tropical Health and Medicine for Australia.*

The first six months of AITHM's operations have created a platform for the future development of a substantial new capacity in Tropical Health and Medicine for Australia.

These initial developments including staff appointments, developing governance arrangements and planning are crucial for the sound development of AITHM. AITHM also makes a contribution to the ambitious agenda that is currently being discussed for the future of Northern Australia. A healthy and productive population is an essential component to the economic development of Northern Australia. However the distinctive characteristics of health in Australia's northern environment including tropical diseases and the impacts of chronic diseases are ongoing concerns which this new capacity in Australia's health research capability seeks to address.

The threat of highly prevalent diseases in neighbouring countries and the routine interaction with Australia's northern-most populations constitute a threat that Australia needs to monitor and prepare for. In the short term AITHM is building the platforms to understand the nature and extent of these risks. Over the longer term it will provide a knowledge capacity to protect Australia's population, build high tech research capability in Northern Queensland and contribute to the growth of Queensland's knowledge based economy.





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