UQ STRATEGIC FUNDING

PROGRESS REPORT

Recipients of Strategic Funding are required to provide a short report to the VC and/or DVC(R) on an annual basis unless they are excluded as per the advice below.

Notes:
- Payment of any subsequent year’s allocation will be subject to VC / DVC(R) approval of the progress report.
- Annual Progress and Final Progress Reports are required for strategic funding allocations of $100,000 per annum or higher (i.e. after combining both VC & DVC(R) contributions).
- A Final Progress Report is required where total strategic funding allocations of $50,000 or higher are awarded across the duration of the commitment (i.e. after combining both VC & DVC(R) contributions).
- Reports are not required where the funding commitment forms part of a UQ Internal Scheme listed at http://www.uq.edu.au/research/research-management/grants-uq-internal.

1. ADMINISTRATIVE SUMMARY

<table>
<thead>
<tr>
<th>Is this a Progress or a Final Report?</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>Report Year:</td>
<td></td>
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<tr>
<td>UniFi Project Number:</td>
<td>610608</td>
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<tr>
<td>Commitment IDs:</td>
<td></td>
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<tr>
<td>Project Title:</td>
<td>CHILDRENS HEALTH AND ENVIRONMENT PROGRAM (CHEP)</td>
</tr>
<tr>
<td>Lead CI / Funding Recipient Name:</td>
<td>PETER D SLY</td>
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<tr>
<td>Administering Unit:</td>
<td>CHRC</td>
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<tr>
<td>Faculty/Institute/Central Area:</td>
<td>MEDICINE</td>
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<tr>
<td>Years of Funding (YYYY - YYYY):</td>
<td>2016-2019</td>
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<td>Are you intending to submit a variation request? (Yes/No)</td>
<td>NO</td>
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Note: Dot points are acceptable for the below items

2. SUMMARY OF OBJECTIVES

100 word summary of strategic objectives (as outlined in the original proposal)

The CHEP vision is healthy and optimally thriving children living in a clean environment.

The CHEP mission is to protect and promote the health of children by preventing or delaying onset of chronic disease. This will be achieved by building on our success in conducting high-quality research into improving assessment methods (early lung disease and early life environmental exposures), understanding risk factors, and developing and testing intervention strategies for reducing long-term disease risk. CHEP collaborates intensively through national and international networks and has a commitment to training and career development of post-doctoral researchers and research higher degree students.
3. STATEMENT ON PROGRESS/OUTCOMES

How have you progressed towards your stated objectives to date?

Major CHEP achievements since inception include:

- Professor Dr HRH Princess Chulabhorn Mahidol launched CHEP at an International Conference held in Brisbane, 2011.
- The first World Health Organization Collaborating Centre at UQ. The WHO Collaborating Centre for Children’s Health and Environment designated in October 2013 and re-designated in October 2017.
- 371 publications (to December 2018), including original research manuscripts, reviews, editorials and invited commentaries, text book and book chapters, research letters and Commission reports.
- $21.76M in research funding administered by UQ to December 2018.
- Nine successful PhD completions at UQ, 14 currently enrolled RHD students, including 3 currently submitted.
- An Internship program providing students with experience in children's environmental health.
- Major national and international collaborations.
- The WHO Children’s Environmental Health network.
- Membership of Lancet Commissions (Pollution and Health, Redefining Asthma, Child Wellbeing).
- Infectious and pollution-related non-communicable disease research programs in Pacific Island countries.
- Development of the Oceania Children’s Environmental Health network
- Research collaborations with the Queensland Alliance for Environmental Health Science (QAEHS), Queensland health, UQ’s School of Public Health, WHO, The Public Health Foundation of India (PHFI), the National Institute for Environmental Health Sciences USA and the WHO Network in Children’s Environmental Health have been strengthened and expanded to include a new alliance with the Environmental Protection Authority Victoria.

Specific areas of progression:

International Affiliations

- Pacific Basin Consortium for Environment and Health
- WHO Department of Public Health, Environment and Social Determinants of Disease
- WHO Network of Collaborating Centres in Children’s Environmental Health
- Fiji National University
- University of Indonesia

Affiliated Staff (located part time at CCHR)

- Professor Paul Jagals, Fiji National University, UQ Honorary Professor (Level E)
- Dr Kurt Long, Swiss Tropical Institute, UQ Honorary Level C
- Dr Colleen Lau, ANU, UQ Honorary Level C

Closely associated UQ staff

- Professor Jochen Mueller, QAEHS
- Dr Luke Knibbs, SPH
- Dr Riccardo Soares Magalhaes

Completed UQ PhD Students

- Dr Claire Shackleton, PhD 2018
- Dr Karin English, MBBS, PhD 2018
## Current UQ RHD Students
- Dr Javier Cortez Ramirez, PhD, submitted Dec 2018
- Thi May Ly Luong, submitted Dec 2018
- Johanna Schagen, PhD, submitted Dec 2018
- Yan Li, PhD, submission due mid 2019
- Dwan Vilcins, PhD, submission due December 2019
- Nina Lazarevic, PhD submission due December 2019
- Claire Brereton, PhD submission due December 2021.

### Education and training:
- Involvement in the Children's Environmental Health (PUBH7032) course run by the School of Population Health and coordinated by Dr Luke Knibbs, School of Public Health.
- CHEP continued its Occupational Trainee program and hosted one trainee in 2018.
- CHEP staff are organising training workshops in children’s environmental health and integrated environment health impact and risk assessment for presentation at the Kyoto-PBC Conference. Prof Peter Sly, Assoc Prof Colleen Lau, Prof Stephania Cormier and Prof Paul Jagals will provide training.

### Public engagement:
- CHEP staff ran a ‘Green Space and birth outcomes’ seminar July 4, 2018
- CHEP hosted Dr Mohammad Jobayer Chisti and Dr Abu Sadat Mohammad Sayeem Bin Shahid from the International Centre for Diarrhoeal Disease Research Bangladesh, who presented a seminar ‘Childhood Pneumonia Innovation’ July 18 2018

### WHO activities.
CHEP has continued its active collaboration with WHO through:
- Developing a global training plan to maximize outreach and use of WHO training modules and assisting WHO HQ and WPRO in implementing the global plan through the organization and delivery of training in CEH
- Assisting WHO to build capacity about prevention of environmental exposures and environmentally-related diseases in children by creating and updating children’s environmental health (CEH) training materials.
- Creating increased awareness about prevention of environmental exposures and environmentally-related diseases in children through the WHO/UNEP Healthy Environments for Children Alliance (HECA) newsletter
- Strengthening the Network of WHO Collaborating Centres for Children’s Environmental Health, with a particular focus on the Western Pacific Region.
- Develop joint research publications with WHO HQ, WPRO and the Network of WHO Collaborating Centres for Children’s Environmental Health.

### Research Output/Publications 2018:
4. EXPECTATIONS FOR COMING YEAR (not applicable for Final Reports)

How do you expect to use your funding allocation for the coming year?

| CHEP activities closely align with strategic focus areas 1,2,3,4, 5, and 6 of UQ’s Strategic Plan 2018-21. Specifically:  
| **Focus area 1:** CHEP’s national and international partnerships provide students with opportunities for industry placements and active collaborations within environmental health, including the Health Protection Branch, Queensland Health; the Environment Protection Authority, Victoria; the Oceania Children’s Environmental Health Network; the Pacific Basin Consortium for Environment and Health; and the WHO Network of Collaborating Centres for Children’s Environmental Health. |
Focus area 2: CHEP national and international partnerships encourage active collaboration between researchers and students from member institutions, including academia, industry, and Government agencies.

Focus area 3: CHEP national and international partnerships strengthen and grow research collaborations to make significant contributions to global research activity. In particular, the WHO networks and Oceania network ensure that UQ students and researchers have a global reach through CHEP.

Focus area 4: CHEP currently has students from low-income and disadvantaged countries including Bangladesh, Columbia, and Vietnam. Students from Bhutan, Iran, and Vietnam have applied to join CHEP during 2019.

Focus area 5: The CHEP program in career development of early career researchers and post-doctoral fellows aims to build their capacity and capability to meet CHEP and UQ strategic goals. This program includes individual mentoring sessions with senior researchers, support to present at conferences and assistance in setting and meeting career goals. Early career researchers and post-doctoral fellows are included in student advisory teams and given senior authorship positions on publications, where appropriate.

Focus area 6: CHEP has attracted $21.76 M in research funds administered through UQ since inception. These include funds from the National Institutes of Health, USA; the Cystic Fibrosis Foundation, USA; Gilead Biosciences, USA; and Corbus Pharmaceuticals, USA.

### Proposed CHEP activities 2019-2023

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<thead>
<tr>
<th>Activity</th>
<th>2019</th>
<th>2020</th>
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<tr>
<td>Pacific Basin Consortium International Conference</td>
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<td>NHMRC APP1138723: POWER RCT</td>
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<td>SLY18KO: Early life origins of CF lung disease</td>
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<td>Innate immune responses in airway epithelium</td>
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<td>Macrophage biology and bacterial killing in cystic fibrosis</td>
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<td>Infectious and pollution-related non-communicable diseases in the Pacific Island Nations</td>
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<td>Impact of environmental exposures in early life on life-long risk of chronic disease</td>
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<td>The Oceania Children’s Environmental Health Network</td>
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<td>WHO Collaborating Centre for Children’s Health and Environment</td>
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<td>Protecting children from traffic-related pollution in Vietnam</td>
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<td>Respiratory diseases in children in Bangladesh</td>
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<td>Research Higher Degree student completions</td>
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<td>Early career Researchers and post-doctoral fellow mentoring</td>
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CERTIFICATIONS
Note: Approvals by email are acceptable.

Annual Report:

Lead CI or Funding Recipient:

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>SLY, Peter D</td>
<td>[Signature]</td>
<td>30/01/2019</td>
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Head of School/Centre/Institute:
I have read and endorse the annual report.

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SUBMISSION OF THE REPORT
Please email the completed form to strategicfunding@uq.edu.au

Submission requirements:
- Send a separate email for each annual report submitted
- Attach a single PDF document containing all approvals
- Use descriptive subject lines to help categorise emails
e.g. {Project number} Annual Report