

UQ STRATEGIC FUNDING

2014 ANNUAL REPORT

Recipients of Strategic Funding are required to provide a short report to the Vice-Chancellor and/or DVC(R) on an annual basis.

Notes:

- Payment of any subsequent year's allocation will be subject to VC / DVC(R) approval of the annual report.
- Annual reporting requirements apply to strategic funding allocations of \$50,000 per annum or higher
- Recipients of funding for UQ Internal Schemes that require progress/annual reports (e.g. ECR/NSRG/Postdocs) are not required to complete this annual report.

1. ADMINISTRATIVE SUMMARY

| | |
|-------------------------------------|--|
| Project No: | 603465 |
| DVC(R) Commitment ID No: | |
| Project Title: | Children's Health and Environment Program (CHEP) at UQ |
| Funds Received in Current Year: | 2014 |
| VC | \$100,000.00 |
| DVC(R) | \$100,000.00 |
| Lead CI / Funding Recipient Name: | Professor Peter Sly |
| Administering School/Centre: | Queensland Children's Medical Research Institute |
| Faculty/Institute: | M+BS |
| Years of Funding (YYYY - YYYY): | 2011-2015 |
| Previous Variation Approved? (Y/N): | N/A |

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)

- Provide a strategic opportunity for UQ to take a leadership role in the area of Children's Environmental Health nationally and internationally through global outreach, capacity building, education & training, public engagement, global change and public health.
- Provide UQ with a vehicle for interactions with international organisations.
- Will apply to become WHO Collaborating Centre.
- CHEP Terms of Reference (TOR) and Activities;

TOR 1: To conduct research aimed at understanding the mechanisms underlying the development of childhood diseases of environmental origin.

TOR 2: To strengthen international and intersectoral collaborative research on children's environmental health.

TOR 3: To educate and raise awareness about prevention of environmental exposures and environmentally-related diseases in children.

3. STATEMENT ON OUTCOMES

How have you progressed towards your stated objectives to date?

The Children's Health and Environment Program (CHEP) has made significant progress in delivering its stated objectives since its inception in 2011. In line with the Terms of Reference, CHEP has *strengthened its research collaborations on Children's Environmental Health* with intersectoral and international bodies including but not limited to; Queensland Health, UQ's School of Population Health, National Research Centre for Environmental Toxicology (ENTOX), World Health Organization and National Institute for Environmental Health Sciences, USA. New Collaborations have been forged with James Cook University and the WHO Network in Children's Environmental Health has been established.

In order to increase education and awareness raising in relation to the prevention of environmental exposures and environmentally-related diseases in children, CHEP has *facilitated various education and training programs* as well as assisted CHEP staff in attending and delivering training courses at international conferences.

On October 7, 2013 CHEP was *designated as the World Health Organization (WHO) Collaborating Centre for Children's Health and the Environment*; the University of Queensland's first WHO Collaborating Centre. The first annual report was submitted in October 2014.

Specific areas of progression:

Neglected and Emerging Tropical Health: Dr Colleen Lau has strengthened collaborations with the Ministry of Health, Fiji and the WHO Country office in Fiji in projects assessing the community burden of leptospirosis.

Population Health: Strong research collaboration with Dr. Paul Jagals assessing the environmental contribution to the burden of disease in children; increasing the "child" focus of existing and new population health research; developing joint education programs in children's environmental health.

Toxic Exposures: Active collaborations have been established with Professor Jochen Mueller and the National Research Centre for Environmental Toxicology (ENTOX) combining expertise in quantifying exposures to harmful chemicals in the environment with paediatric epidemiology and health outcome expertise. A number of collaborative projects are in place, including;

- Optimising techniques for assessing exposure of infants and young children to environmental chemicals.
- Assessment of bisphenol A (BPA) exposure in Queensland children.
- Measuring environmental exposures and their health consequences in birth cohort studies.

One RHD, who was working on this project, successfully completed in 2014 and 4 more are currently enrolled, 3 at UQ and 1 at Melbourne University.

We were successful in obtaining a NHMRC Partnership grant, submitted through MCRI,

Melbourne, for assessing toxic exposures in the Barwon Infant Study (Victoria).

Infections: We were successful in obtaining a 5 year NHMRC project grant (2015-19) to investigate the immune recognition of upper airway bacteria in early life and how this impacts on asthma risk. This project is based the ORCHiD cohort and involves collaboration between CHEP at UQ, UWA and Griffiths University.

Neurodevelopment and mental health: CHEP is collaborating on several projects investigating the impact of environmental exposures on neurodevelopment and mental health in children, including;

- Early life exposures as risk factors for ADHD, in collaboration with the Barwon Infant Study (Professor Anne-Louise Ponsonby, A/Prof Peter Vuillermin and Dr Christos Symeonides, Murdoch Children’s Research Institute and Professor Jochen Meuller, ENTOX)
- The WHO Children’s Environmental Health network, in partnership with the DOHaD network in a new project on “healthy brains” that commenced in October 2014.
- Impacts of exposure to eWaste in conjunction with the WHO eWaste network.

Education & Training:

- CHEP continue involvement in the intensive Children’s Environmental Health Course run by SPH.
- Dr Colleen Lau and Dr Paul Jagals have run multiple training workshops on Integrated Environmental Impact Assessments at international conferences.
- Prof Peter Sly and Dr. Leith Sly have run multiple training workshops on Children’s Environmental Health at international conferences

Public Engagement:

- CHEP was integral in the establishment of, and is home to the eWaste Network which aims to establish, further expand and foster cooperation through a network of experts and international stakeholders in the area of eWaste management by:
- Closely coordinating intervention programs with WHO departments, UN agencies, WHO collaborating centres and other groups
- Closely collaborating with WHO collaborating centres, partners, and NGOs and by involving further stakeholders
- Setting up a platform for exchange as a tool to build this network
- CHEP was integral in the coordination of the “networking for effective collaboration in children’s health” meeting and will continue to facilitate the coordination of the formed network. The network is comprised of WHO Collaborating Centres and other active partners in Children’s Environmental Health. The overall objective of the network is to reduce morbidity and mortality of children by identifying and controlling environmental risks.
- Monthly newsletter on Children’s Environmental Health on behalf of WHO and the United Nations Environment Program.
- During 2014 CHEP produced twelve monthly editions of the Children’s Environmental Health International Initiatives newsletter, a joint venture from World Health Organization and the United Nations Environment Program.

WHO activities

- Leadership of the WHO Children’s Environmental Health Network
- Participation in the WHO eWaste network

- Participation in the 1st WHO WPRO Regional Forum held in Manilla in November 2014

Research Output/Publications 2014:

Book Chapters

1. **Sly PD.** Asthma, Allergy, and the Environment. In: Landrigan PJ & Etzel RA (Eds). Textbook of Children's Environmental Health. 2014:43;405-410. New York, Oxford University Press.
2. Derne B, Weinstein P, **Lau C.** Wetlands as Sites of Exposure to Water-Borne Infectious Diseases. In: Finalyson M, Horwitz P, Weinstein P, editors. Wetlands and Human Health. Edith Cowan University, Perth: Springer 2014. In press.

Section Editor/ Special Journal Editions

Carpenter DO, **Sly PD.** (Ed) Special Issue: Environmental Exposure in Indigenous Communities. 15th International Conference of the Pacific Basin Consortium for Environment and Health. Rev Environ Health 2014; 29(1-2):1-142.

- **Sly PD.** The Pacific Basin Consortium for Environment and Health. Rev Environ Health 2014; 29(1-2):1
- Wilson LD, Mohamed MH, Headly JV. Novel materials for environmental remediation of oil sands contaminants. Rev Environ Health 2014; 29(1-2):5-8
- Bailey K, Fry RC. Long-term health consequences of prenatal arsenic exposure: links to the genome and the epigenome. Rev Environ Health 2014; 29(1-2):9-12
- Chen CJ. Health hazards and mitigation of chronic poisoning from arsenic in drinking water: Taiwan experiences. Rev Environ Health 2014; 29(1-2):13-20
- Chakrabarti T, Vaidya AN, Patil MP, Prasad R. Remediation of mercury-contaminated soil – a case study. Rev Environ Health 2014; 29(1-2):21-22
- Menka N, Root R, Chorover J. Bioaccessibility, release kinetics, and molecular speciation of arsenic and lead in geo-dusts from the Iron King Mine Federal Superfund site in Humboldt, Arizona. Rev Environ Health 2014; 29(1-2):23-28
- Khwaja MA, Shabbir Abbasi M. Mercury poisoning dentistry: high-level indoor air mercury contamination at selected dental sites. Rev Environ Health 2014; 29(1-2):29-32
- Prasad R. New approaches and insights into bioremediation of hazardous waste. Rev Environ Health 2014; 29(1-2):33-36
- Chakraborty P. Modeling the emission sources for polychlorinated biphenyls in India: implications for human health risk assessment. Rev Environ Health 2014; 29(1-2):37-40
- Yadav SK, Juwarkar AA, Balki AB, Shende AR, Devi SS, Krishnamurthi K, Bafna A, Prasad R, Chakrabarti T. Microorganism-assisted phytoremediation of heavy metal and endosulfan contaminated soil. Rev Environ Health 2014; 29(1-2):41-42
- Singh K. Chemicals: friends and foes. Rev Environ Health 2014; 29(1-2):43-44
- Chakraborty P, Sakthivel S, Kumar B, Kumar S, Mishra M, Verma VK, Gaur R. Spatial distribution of persistent organic pollutants in the surface water of River Brahmaputra and River Ganga in India. Rev Environ Health. 2014;29(1-2):45-8
- Nayyar N, Sangwan N, Kohli P, Verma H, Kumar R, Negi V, Oldach P, Mahato NK, Gupta V, Lal R. Hexachlorocyclohexane: persistence, toxicity and decontamination. Rev Environ Health. 2014;29(1-2):49-52
- Hussain M, Mumtaz S. E-waste: impacts, issues and management strategies. Rev Environ Health. 2014;29(1-2):53-58
- Leblanc M, Arnold NB, Arnold RG. Clean water and sanitation in developing areas lacking conventional power. Rev Environ Health. 2014;29(1-2):59-64
- Leblanc M. Striving for success in sanitation, hygiene, and water supply. Rev Environ

Health. 2014;29(1-2):65-66

- Karanikola V, Corral AF, Mette P, Jiang H, Arnoldand RG, Ela WP. Solar membrane distillation: desalination for the Navajo Nation. *Rev Environ Health*. 2014;29(1-2):67-70
- Hussain M, Mumtaz S. Climate change and managing water crisis: Pakistan's perspective. *Rev Environ Health*. 2014;29(1-2):71-78
- Raman R, Krishnamoorthy R. Effective utilization of waste water through recycling, reuse, and remediation for sustainable agriculture. *Rev Environ Health*. 2014;29(1-2):79-82
- Stovern M, Betterton EA, Sáez AE, Villar OI, Rine KP, Russell MR, King M. Modeling the emission, transport and deposition of contaminated dust from a mine tailing site. *Rev Environ Health*. 2014;29(1-2):91-94
- Jang M. Coal mine drainage sludge and its application for treating metallic mine effluent. *Rev Environ Health*. 2014;29(1-2):95-100
- Kennedy IM. Nanotechnology and toxicology. *Rev Environ Health*. 2014;29(1-2):101-104
- Carlin DJ. Nanotoxicology and nanotechnology: new findings from the NIEHS and Superfund Research Program scientific community. *Rev Environ Health*. 2014;29(1-2):105-108
- Selvaraj R, Al-Kindy SM, Silanpaa M, Kim Y. Nanotechnology in environmental remediation: degradation of volatile organic compounds (VOCs) over visible-light-active nanostructured materials. *Rev Environ Health*. 2014;29(1-2):109-112
- **Lau C.** Combating infectious diseases in the Pacific Islands: sentinel surveillance, environmental health, and geospatial tools. *Rev Environ Health*. 2014;29(1-2):113-118
- Isaksen TB, Yost M, Hom E, Fenske R. Projected health impacts of heat events in Washington State associated with climate change. *Rev Environ Health*. 2014;29(1-2):119-124
- Collman GW. Community-based approaches to environmental health research around the globe. *Rev Environ Health*. 2014;29(1-2):125-128
- Jalaludin B, Cowie C. Particulate air pollution and cardiovascular disease – it is time to take it seriously. *Rev Environ Health*. 2014;29(1-2):129-132
- McCarty KM, Cleveland RJ, Franklin P, **Sly PD.** Chemical exposure and respiratory health of children in an industrial setting. *Rev Environ Health*. 2014;29(1-2):133-134
- Taneja A. Fine particles characterization in residential homes located in different microenvironment of India. *Rev Environ Health*. 2014;29(1-2):135-138
- Salami IR, As ZA, Marselina M, Roosmini D. Respiratory health risk assessment of children living close to industrial areas in Indonesia. *Rev Environ Health*. 2014;29(1-2):139-142

Original Research Articles

1. **Moore SE, Norman RE, Sly PD,** Whitehouse AJO, Zubrick SR, **Scott J.** Adolescent peer aggression and its association with mental health and substance use in an Australian cohort. *J Adolesc*. 2014;37:11-21.
2. Hollams E, de Klerk NH, Holt PG, **Sly PD.** Persistent effects of maternal smoking during pregnancy on lung function and asthma in adolescents. *Am J Respir Crit Car Med*. 2014;189:401-7
3. **Paynter S,** Yakob L, Simões EAF, Lucero MG, Tallo V, Nohynek H, Ware RS, Weinstein P, Williams G, **Sly PD.** Using mathematical transmission modelling to investigate drivers of respiratory syncytial virus seasonality in children in the Philippines. *PLoS One*. 2014 Feb 9(2).
4. Phan JA, Kicic A, Berry LJ, Fernandes LB, Zosky GR, **Sly PD,** Larcombe AN. Rhinovirus exacerbates house-dust-mite induced lung disease in adult mice. *PLoS One*. 2014;9:e92163
5. **Paynter S,** Ware RS, Lucero MG, Tallo V, Nohynek H, Weinstein P, Williams G, **Sly PD,** Simões EA. Malnutrition: A Risk Factor for Severe Respiratory Syncytial Virus Infection and Hospitalization. *Pediatr Infect Dis J*. 2014;33:267-71.

6. Hinwood A, Callan AC, Heyworth J, McCafferty P, **Sly PD**. Children's personal exposure to PM10 and associated metals in urban, rural and mining activity areas. *Chemosphere*. 2014;108:125-133
7. **Heffernan AL**, Aylward LL, Samiduari AJ, Davies PSW, Toms LML, **Sly PD**, **Mueller JF**. Short term variability in urinary bisphenol A in Australian children. *Environ Intl*. 2014;68:139-143
8. Barraza-Villarreal A, Escamilla-Nuñez MC, Schilman A, Hernandez-Cadena L, Li Z, Romanoff L, Sjödin A, Del Río-Navarro BE, Díaz-Sanchez D, Díaz-Barriga F, **Sly PD**, Romieu I. Lung Function, Airway Inflammation, and Polycyclic Aromatic Hydrocarbons Exposure in Mexican Schoolchildren: A Pilot Study. *J Occup Environ Med*. 2014;56:415-9
9. Zosky GR, Hart PH, Whitehouse AJ, Kusel MM, Ang W, Foong RE, Chen L, Holt PG, **Sly PD**, Hall GL. Vitamin D deficiency at 16-20 weeks gestation is associated with impaired lung function and asthma at 6 years of age. *Ann Am Thorac Soc* 2014;11: 571-577.
10. Escamilla-Nuñez MC, Barraza-Villarreal A, Hernández-Cadena L, Navarro-Olivos E, **Sly PD**, Romieu I. Omega-3 fatty acid supplementation during pregnancy and respiratory symptoms in Children. *Chest*. 2014;146:373-82.
11. **Paynter S**, **Sly PD**, Ware RS, Williams G, Weinstein P. The importance of the local environment in the transmission of respiratory syncytial virus. *Sci Total Environ*. 2014;493:521-5.
12. **Heffernan AL**, **Sly PD**, Toms LML, Hobson P, **Mueller JF**. Bisphenol A exposure is not associated with area level socioeconomic index in Australian children using pooled urine samples. *Environ Sci Pollut Res* 2014;21:9344–9355
13. Logan J, Chen L, Gangell C, **Sly P.D**, Fantino E, Liu K. Brief exposure to cigarette smoke impairs airway epithelial cell innate anti-viral defence. *Toxico in Vitro*. 2014; 28:1430–1435.
14. **Lau C**, Won K, Becker L, Soares Magalhaes R, Fuimaono S, Melrose W, Lammie P, Graves PM. Seroprevalence and Spatial Epidemiology of Lymphatic Filariasis in American Samoa after Successful Mass Drug Administration. *PLoS Neglected Tropical Diseases* 2014; 8(11): e3297.
15. Derne B, Weinstein P, Musso D, **Lau C**. Distribution Of Rickettsioses In Oceania: Past Patterns And Implications For The Future. *Acta Tropica* 2014. DOI: 10.1016/j.actatropica.2014.10.012.
16. **Lau C**. Combating Infectious Diseases in the Pacific Islands: Sentinel Surveillance, Environmental Health and Geospatial Tools. *Rev Environ Health* 2014; DOI: 10.1515/reveh-2014-0028.
17. **Lau C**, Weinstein P, Slaney D. The Importance of Surveillance for Informing Pre-travel Medical Advice: Imported Malaria in New Zealand, 1997 to 2009. *Vector Borne and Zoonotic Diseases* 2014; 14(2):134-140.
18. Faddy H, Seed C, **Lau C**, Racloz V, Flower R, Smythe L, Burns M-A, Dohnt M, Craig S, Harley R, Weinstein P. Antibodies to *Leptospira* Among Blood Donors in High-risk Areas of Australia: Possible Implications for Transfusion Safety. *Blood Transfusion* 2014. DOI: 10.2450/2014.0012-14.
19. Gray DM, Willemsse L, Alberts A, Simpson S, **Sly PD**, Hall GL, Zar HJ. Lung function in African infants: A pilot study. *Pediatr Pulmonol*. 2013 Dec 11. [Epub ahead of print]
20. Hughes I, Harris M, Cotterill A, Garnett S, Bannink E, Pennell C, **Sly PD**, Leong GM, Cowell C, Werther G, Hofman P, Cutfield W & Choong CS. Comparison of Centers for Disease Control and Prevention and World Health Organization references/standards for height in contemporary Australian children: Analyses of the Raine Study and Australian National Children's Nutrition and Physical Activity cohorts. *Journal of Paediatrics and Child Health* 2014 Jun 22. doi: 10.1111/jpc.12672. [Epub ahead of print]
21. Zhang G, Lai CT, Hartmann P, Oddy WH, Kusel MM, **Sly PD**, **Holt PG**. Anti-infective proteins in breast milk and asthma-associated phenotypes during early childhood. *Pediatr*

- Allergy Immunol. 2014 Sep 15. Doi 10.1111/pai.12265. [Epub ahead of print]
22. **Chen Y**, Wang X, Li Y, Toms LML, Gallen M, Hearn L, Aylward LL, McLachlan MS, **Sly PD**, **Mueller JF**. Persistent Organic Pollutants in Matched Breast Milk and Infant Faeces Samples. *Chemosphere*. In press, accepted Sept 2014.
 23. **Paynter S**, Ware RS, **Sly PD**, Williams G, Weinstein P. Seasonal immune modulation in humans: Observed patterns and potential environmental drivers. Sept 2014. *J Infect*. doi 10.1016/j.inf.2014.09.006 [epub ahead of print]

Reviews/Editorials/Commentaries

1. Gore AC, Balthazart J, Bikle D, Carpenter DO, Crews D, Czernichow P, Diamanti-Kandarakis E, Dores RM, Grattan D, Hof PR, Hollenberg AN, Lange C, Lee AV, Levine JE, Millar RP, Nelson RJ, Porta M, Poth M, Power DM, Prins GS, Ridgway EC, Rissman EF, Romijn JA, Sawchenko PE, **Sly PD**, Söder O, Taylor HS, Tena-Sempere M, Vaudry H, Wallen K, Wang Z, Wartofsky L, Watson CS. Reprint of: Policy Decisions on Endocrine Disruptors Should Be Based on Science Across Disciplines: A Response to Dietrich et al. *Front Neuroendocrinol*. 2014;35:2-5
2. Gore AC, Balthazart J, Bikle D, Carpenter DO, Crews D, Czernichow P, Diamanti-Kandarakis E, Dores RM, Grattan D, Hof PR, Hollenberg AN, Lange C, Lee AV, Levine JE, Millar RP, Nelson RJ, Porta M, Poth M, Power DM, Prins GS, Ridgway EC, Rissman EF, Romijn JA, Sawchenko PE, **Sly PD**, Söder O, Taylor HS, Tena-Sempere M, Vaudry H, Wallen K, Wang Z, Wartofsky L, Watson CS. Reprint of: Policy decisions on endocrine disruptors should be based on science across disciplines: A response to Dietrich et al. *Horm Behav*. 2014 Feb;65(2):190-3
3. **Scott JG**, **Moore SE**, **Sly PD**, **Norman RE**. Bullying in children and adolescents: A modifiable risk factor for mental illness. *Aust N Z J Psychiatry* 2014;48:209-12
4. **Sly PD**, Neira M, Collman G, Carpenter DO, Landrigan PJ, Van den berg M, Diaz Barriga F, Ruchirawat M, Laborde A, Pascale A, Heacock M, Dalmau MT, Suk WA. Networking to advance progress in children's environmental health. *The Lancet Global Health*. 2014 Mar;2(3):e129-e130.
5. Knibbs LD, **Sly PD**. Indigenous health and environmental risk factors: An Australian problem with global analogues? *Glob Health Action*. 2014 Apr 29;7:23766
6. **Heffernan AL**, Aylward LL, Toms LM, **Sly PD**, Macleod M, **Mueller JF**. Pooled biological specimens for human biomonitoring of environmental chemicals: Opportunities and limitations. *J Expo Sci Environ Epidemiol*. 2014;24:225-32.
7. **Sly PD**. Traffic-related air pollution: an avoidable exposure to improve respiratory health. *Thorax*. In press, accepted 28 August 2014

4. EXPECTATIONS FOR COMING YEAR (if applicable)

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

Funds will be used according to the original budget allocation to cover staff, equipment and research costs. The CHEP application was for 5 year funding. CHEP and the WHO Collaborating Centre for Children's Health and the Environment is at the centre of an application for the NHMRC "Centre for Research Excellence for Assessing the Impact of Early Life Exposures to Environmental Toxicants on Non-communicable Diseases" that will be submitted in the current round.

Specific activities and research themes that will be undertaken by CHEP and its collaborative network will include:

- The WHO Collaborating Centres Children's Environmental Health Network and WHO

eWaste network.

- Improving assessment of exposure to environmental toxicants in early life
- Identifying biomarkers of environmental exposures in early life and risk of chronic non-communicable disease
- Improving assessment of environmental risk factors for chronic non-communicable disease.
- Assessing the impact of early life environmental exposures on the risk for chronic disease.
- Developing the framework for Integrated Environmental Health Impact Assessments (IEHIA) for chronic non-communicable diseases
- Training workshops in children's environmental health and in IEHIAs.

VARIATION REQUEST – N/A

Recipients of Strategic Funding may seek approval to:

- 1) Access unallocated commitments in future years
- 2) Amend the funding timetable of future allocations.

Current Funding Timetable (amend years where appropriate):

| Contributor | 2013 | 2014 | 2015 | 2016 | 2017 | Total |
|--------------|------------------|------------------|------------------|------------|------------|------------|
| VC | \$200,000 | \$100,000 | \$100,000 | \$0 | \$0 | \$0 |
| DVC(R) | \$200,000 | \$100,000 | \$100,000 | \$0 | \$0 | \$0 |
| M+BS | \$100,000 | \$100,000 | \$100,000 | \$0 | \$0 | \$0 |
| QCMRI/RCHF | \$100,000 | \$100,000 | \$100,000 | \$0 | \$0 | \$0 |
| TOTAL | \$600,000 | \$400,000 | \$400,000 | \$0 | \$0 | \$0 |

Note: this variation request is related to VC and DVC(R) contributions only. Faculties and Institutes may choose to use this information to manage changes to their internal funding obligations and commitments.

1. UNALLOCATED COMMITMENTS

The balance of any current year commitments not allocated by the end of the year will be forfeited. Typically, this will relate to funding in arrears expenditure that does not use up all of the committed funds during the year. A request to move the remaining balance of commitments to another year will need to be approved by the VC and/or DVC(R).

Amount of unallocated commitments (as at 31 December):

| Contributor | 2013 |
|----------------------|------------|
| VC | \$0 |
| DVC(R) | \$0 |
| {Other contributors} | \$0 |
| {Other contributors} | \$0 |
| {Other contributors} | \$0 |
| TOTAL | \$0 |

Proposed Funding Timetable (including reallocated funds):

| Contributor | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
|----------------------|------------|------------|------------|------------|------------|------------|
| VC | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| DVC(R) | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| {Other contributors} | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| {Other contributors} | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| {Other contributors} | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

2. CHANGES TO FUNDING TIMETABLE

A request may be made to amend the timing and phasing of future commitments (while not exceeding the total funding approval).

Proposed Funding Timetable:

| Contributor | 2014 | 2015 | 2016 | 2017 | 2018 | Total |
|-----------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| VC | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| DVC(R) | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| {Other contributors } | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| {Other contributors } | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| {Other contributors } | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

3. REASON FOR REQUEST

- Please provide a short explanation of the reason for your variation request.

CERTIFICATIONS

Note: Approvals by email are acceptable.

Annual Report:

Lead CI or Funding Recipient:

| Name | Signature | Date |
|---------------------|-----------|------|
| Professor Peter Sly | | |

Head of School/Centre/Institute:

I have read and endorse the annual report.

| Name | Signature | Date |
|-----------------------------|-----------|------|
| Professor Claire Wainwright | | |

Variation Requests Only:

Faculty/Institute Finance Manager:

I endorse the accuracy of the financial information.

| Name | Signature | Date |
|------|-----------|------|
| | | |

USMG Member or Delegate (*variation requests only*):

I endorse the variation request.

| Name | Signature | Date |
|------|-----------|------|
| | | |

SUBMISSION OF THE REPORT

Please email the completed form to strategicfunding@uq.edu.au