UNIVERSITY of TASMANIA

WICKING
Dementia Research and Education Centre

Annual Report 2018

About the Wicking Dementia Centre

The Wicking Dementia Research and Education Centre was established in 2008 in the (former) Faculty of Health at the University of Tasmania, through the generosity and foresight of philanthropists John and Janet Wicking. Their desire to make a difference in the field of dementia is being realised in the establishment and ongoing work of the Centre that proudly bears their name. To date the J.O. and J.R. Wicking Trust (Equity Trustees), has pledged almost $8 million in support of the Wicking Dementia Centre.

The Wicking Dementia Centre is unique in being an interdisciplinary centre, bringing together experts from a broad range of backgrounds including neuroscience, nursing, medicine, sociology, psychology, policy and allied health. The Centre has created a passionate, engaged, collaborative environment of researchers, educators and specialists where the mixture of disciplines generates a unique approach toward providing better knowledge, care practices, and health outcomes around dementia.

2018 is the first year of Stage Three of the Wicking Dementia Centre. One of the strategic focuses of Stage Three is improving dementia literacy across Australia, and the world. The vanguard of this approach is the ongoing delivery of our Understanding Dementia and Preventing Dementia MOOCs; maximising the reach of the MOOCs and measuring their impact on individuals and communities.

The Centre has strengthened its status and governance within the University, as part of the College of Health and Medicine (established in 2018) and continues to work closely with collaborators from across the College, as well as with national and international experts and organisations. The educational programs of the Centre have maintained strong enrolments – an acknowledgement to the importance of dementia education.

Around the world, there will be
one new case of dementia every 3 seconds

Alzheimer's Disease International 2018

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Message from the Director

At the Wicking Dementia Research and Education Centre, our purpose is both academic and social in nature. Our academic mission relates to excellence in research outcomes as well as through the learning programs we offer. Our social mission is to direct our activities to assist the communities we serve, which include all those impacted by dementia. Additionally, we have a special role in working closely with our partners and people throughout Tasmania, often to trial or showcase initiatives that could be translated nationally and internationally.

The 2018 Wicking Centre Annual Report highlights how our staff and students are making an impact, undertaking globally competitive research and making a difference in the lives of those affected by dementia. Our MOOCs continue to grow in their reach, and we have just passed over a quarter of a million enrolments since these courses started in 2013. We have also grown the research team around the MOOCs, thanks to continued support from the J.O. and J.R. Wicking Trust (Equity Trustees), as well as the Commonwealth Department of Health, which is allowing us to measure how these MOOCs are having a positive effect on dementia knowledge – through determining how this increased understanding is used for supporting those in carer roles; and through the reduction of dementia risk factors.

In the meantime, the numbers of people with dementia continue to rise in Australia and across the world, and the impacts of this grows accordingly. One of the motivations for starting the MOOCs was to seek to support family carers, people with dementia and those who work in health and aged care, at the scale required to have a useful impact.

You will be able to read in this report how MOOC participants have used the knowledge that they have gained. One of our other strategies to transform aged care is to offer formal university qualifications in dementia care, and to make this as accessible as possible to a wide range of people working in the sector. The degree program has resulted in over 800 graduates since 2012, and these graduates are now making substantial contributions across aged and dementia care, frequently leading change in attitudes and practice related to care. We hope to expand our university course offerings through 2019 to ensure that a range of options are available to cater to individual interests and backgrounds.

The 2018 report also spotlights our research areas in the Centre's themes of dementia cause, prevention and care. One particular highlight was the work of Juanita Westbury and colleagues in the Reducing Use of Sedatives (RedUSe) project. Data from this significant study highlighted the need to tackle the overprescribing of psychotropic medicine in residential aged care, and the linked publication in the Medical Journal of Australia was a catalyst for a national discussion in this area, as was highlighted in an episode of ABC Four Corners and other media reports. The end of 2018 saw the announcement of a Royal Commission into Aged Care Quality and Safety, and we hope the pioneering work of Juanita and other Wicking Centre staff can help contribute towards the solutions component of the Commission's work. Perhaps even more importantly, it will be our course and MOOC graduates who will form a vanguard in changing the community's attitudes towards dementia, and improving the quality of care.

Thanks to all staff, student, partners and supporters of the Wicking Centre for contributions to our shared mission and success through 2018.

Professor James Vickers
Director, Wicking Dementia Research and Education Centre

Education

Dementia education programs have continued to be a primary focus of the Wicking Dementia Centre. During 2018, four MOOCs were delivered, strengthening our dementia literacy reach. The Understanding Dementia MOOC, and the Preventing Dementia MOOC rated first and second (respectively) in the global Health and Medicine category for free online courses (Class Central).

As at December 2018, 817 people have graduated from the Centre's formal university programs – graduating with a Diploma, Associate Degree or Bachelor of Dementia Care. As Australians focus on the care and the needs of people living with dementia, the skill sets and knowledge of dementia care specialists are growing in importance and recognition. Through the coming year, the Centre will broaden the education offerings to include targeted postgraduate dementia programs as well as working closely with the aged care industry to bolster leadership roles in this area.

A highlight of our education program this year has been the *Improving the Health and Well-Being of Tasmanian Aboriginal People – One Community's Focus on Individualised Support, Specialised Training and Leadership in Dementia Care* project. This Dementia and Aged Care Services (DACS) funded project is designed to provide a pathway through the Understanding Dementia MOOC, Cert III vocational sector training, and the Diploma of Dementia Care to develop aboriginal health workers who are specialising in dementia.

Understanding Dementia MOOC

The flagship education program offered by the Centre continued to attract large numbers of participants throughout 2018. The course ran in February and July and will continue to run twice each year.

In 2018, the two iterations of the Understanding Dementia MOOC attracted a total of 44,300 enrolments, the highest annual enrolment since the course commenced in 2013. Completion rates remained high at around 38% (compared to a global average of 5-10%).

The free seven-week course aims to educate the community, in particular those providing care and support to people living with dementia, about the brain diseases that cause dementia, how these impact the person, and the latest evidence for quality care. This course remains the number one Health and Medical online course as rated by Class Central, thanks to hundreds of five-star reviews from our participants.

50 million people worldwide are living with dementia in 2018.

This number will more than triple to 152 million by 2050.

Alzheimer's Disease International 2018

> December 2018 graduates from the Dementia Care Degree Program.

Our research evaluating the Understanding Dementia MOOC and feedback from course participants shows that the course is increasing knowledge about dementia and informing care practices to improve quality of life for those affected by dementia.

Hear from our Understanding Dementia 2018 participants

"I believe support for caregivers and those who need care is one of the most important issues of our day, worldwide. This MOOC is a wonderful resource for increasing understanding. Thank you."

Bobbi Carducci, USA

"Thank you so much for such an outstanding, interactive course! As a palliative clinical nurse, I found the third module [The Person] of particular interest and significance and I feel so inspired and encouraged to use all I have learned in my future care and support of clients and their families. Thank you so much for making this course available online."

Tracy Hojem, Australia

"If only I could be cared for by the people who have presented this course. Such dedication, such a focus on the individual and their loved ones, wonderful observation and compassion, such imagination and understanding, and important research too. Thank you each for beginning this journey of deepening my understanding of dementia."

Jenny Owen, Australia

Preventing Dementia MOOC

The Preventing Dementia MOOC was offered twice during 2018 and attracted a total of 34,600 enrolments. The free four-week online course maintained its very high completion rate (45%) and is the number two Health and Medical online course globally as rated by Class Central.

This course draws on the expertise of leading researchers in dementia prevention and risk reduction, and, in 2018, included new interviews with three international researchers about their large intervention studies aimed at reducing the risk of developing dementia. The course discusses the key modifiable risk factors for dementia that the latest research estimates account for around one-third of dementia cases. Mitigating the growing impact of dementia will rely on addressing these modifiable risk factors at a population level, and the Preventing Dementia MOOC aims to provide the community with knowledge and practical steps to decrease the risk of dementia. Our evaluation research and feedback from course participants shows that many are changing their dementia risk related behaviour and sharing what they have learned with others.

Hear from our Preventing Dementia 2018 participants

"Thank you Wicking Centre for providing this wonderful, interesting and helpful course. My mother has had advanced dementia for the past seven years and this course has given me hope for the future that I can do positive things to possibly help prevent/delay dementia.

I was considering giving up my French classes but now definitely won't and will try and build up some cognitive reserve!"

Giselle Joel, Australia

"Very many thanks to all at the Wicking Centre and your international collaborators for the opportunity to participate in this Preventing Dementia MOOC. It has given me confidence to understand, assess and evaluate the many conversations about this issue. It also encourages me to pursue my lifestyle in the knowledge that it is in line with current recommendations... may your efforts continue."

Graham, Australia

"Thanks for the great care with which this course was obviously made. I feel very grateful to be on the receiving end of the current thinking about such a vital, globally and personally relevant topic. It made me realise how much I miss structured learning now I'm retired. The MOOC made me 'think' - and think creatively about what I can do for myself and others - and that can only be good. Life, at whatever age, and with whatever affliction, needs a richness to it and finding ways to achieve that for oneself and for others, is an ongoing challenge! Thanks to all of you for your generosity."

Gill Adams, UK

Dementia Care Degree Program

The Dementia Care Degree Program is Australia's first degree specifically focused on dementia. It is available to domestic and international students, from carers to health professionals and anyone with an interest in learning more about dementia. With the rise in the prevalence of dementia and the need to provide quality care in the community, health care centres and hospitals, and in residential care, it is becoming essential that those working in aged care develop specialised knowledge in this field, so they can make a difference to the lives of people living with dementia.

The program offers graduation points at a Diploma, Associate Degree and full Bachelor Degree level, and students study fully online either full-time or part-time.

In June 2018, 28 Bachelor of Dementia Care students were supported by the Wicking Centre to attend the Australian Dementia Forum in Sydney. This was a tremendous experience for the students, encouraging collaboration and offering the opportunity to learn about contemporary dementia research. The forum is an annual event, organised by the NHMRC's National Institute for Dementia Research, that brings together dementia researchers from around the nation to explore collaborations and develop connections that will promote better research, leading to better health outcomes in the growing public health issue of dementia.

In 2018, dementia is estimated to cost Australia more than $15 billion.

By 2025, the total cost of dementia is predicted to increase to more than $18.7 billion in today's dollars, and by 2056, to more than $36.8 billion.

The National Centre for Social and Economic Modelling NATSEM (2016) Economic Cost of Dementia in Australia 2016-2056

> Wicking Centre staff and students attending the 2018 Australian Dementia Forum.

The Wicking Centre's students were treated to many guest speakers and discussion panels that focused on a range of different studies relating to dementia. By attending the event and listening to the many presentations, the students were able to further develop their knowledge of dementia whilst staying up to date with the latest research in order to complement their studies.

"I am so grateful to have this opportunity to study and learn more about the myriad aspects of dementia care. I love the mix of neuroscience and social science, with every subject promoting my personal and professional growth. I think my engagement with the BDC and reflective practice have made me a more effective and compassionate carer of our residents living with dementia. I also feel more empowered to challenge certain care decisions at the residential aged care facility where I work and to share my knowledge with others."

Wil Hendrix,
Bachelor of Dementia Care Graduate

Summary of 2018 outputs

Grant Research Funding	2018	2017	2016	2015
New funding in 2018	$5,152,685	$7,911,929	$5,469,068	$2,833,462
Total funds managed	$12,780,276	$17,553,371	$8,769,482	$11,438,254

Dementia Care Degree Program	To date	2018
Graduands	531 Diploma 135 Associate Degrees 151 Bachelor Degrees	170 Diploma 53 Associate Degrees 62 Bachelor Degrees

Dementia MOOCs	To date	2018	Completion rate
Understanding Dementia MOOC enrolments	163,911	44,300	38%
Preventing Dementia MOOC enrolments	61,483	34,600	45%
Total enrolments	225,394	78,900	

We have received enrolments from 208* countries to date including 176 UN member states.

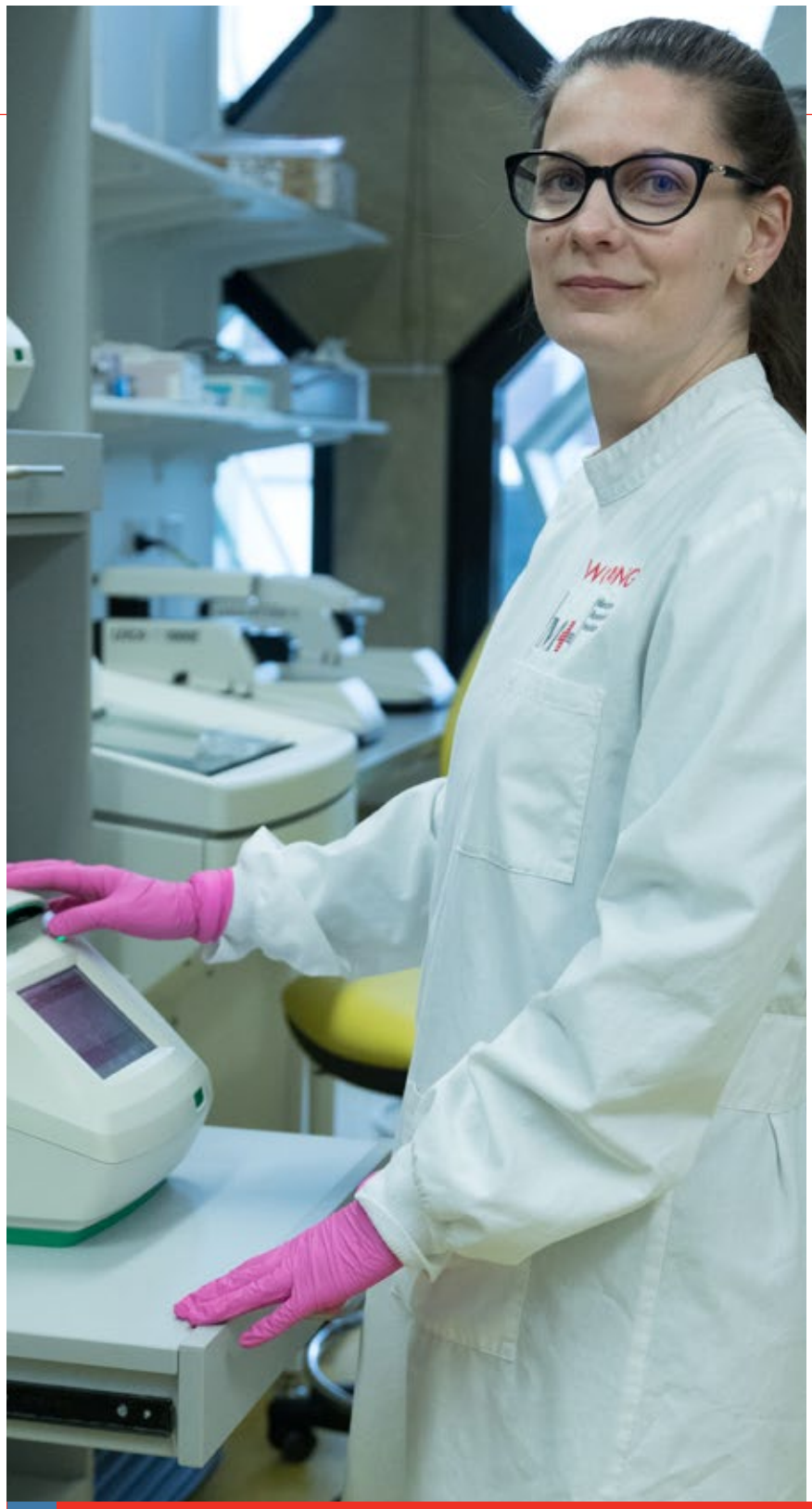
* Countries as included on the MOOC enrolment form as listed in the ISO 3166 Standard of 249 countries, territories, or areas of geographical interest.

Research

The three major themes of the Centre's research program – dementia Care, Prevention and Cause – were well represented in new grants this year, and a growing number of collaborations with community, industry and University groups.

Some of the research highlights include:

- Dr Lyn Goldberg (Wicking Dementia Centre) and Associate Professor Anne-Marie Forbes (College of Arts, Law, Education) collaborated on a project to involve people with dementia in a group singing program. The project provided a great opportunity for people living with dementia to be involved in singing, and looked at the clinical effects of this program on breathing capacity, and more broadly quality of life.
- The Australian Dementia Network (ADNeT) was announced in 2018. This commonwealth funded $18 million project brings together key stakeholders from CSIRO, Edith Cowan University, Macquarie University, Monash University, Queensland Institute Medical Research, South Australian Health and Medical Research Institute, University of Melbourne, University of New South Wales, University of Sydney – and the Wicking Dementia Centre. ADNeT aims to transform dementia research, care and treatment across Australia through a consolidation of knowledge and information. ADNeT will track, benchmark and report on the quality of care, establish a national network of memory clinics which will include assessments, eventually enabling a program for participating in clinical trials and other dementia research projects. The Wicking Dementia Centre will focus on the development of Tasmanian (in the first instance) registries and clinics, and engagement with communities to build dementia awareness and education around risk reducing knowledge and behaviours.



In 2018, there are an estimated 436,366 Australians living with dementia.

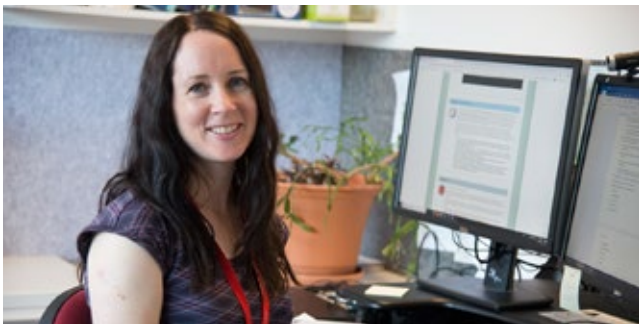
Without a medical breakthrough, the number of people with dementia is expected to increase to 589,807 by 2028 and 1,076,129 by 2058.

Dementia Australia 2018

Dementia Research Themes: Care – Prevention – Cause

CARE

Meaningful Engagement in Nutritional Understanding (MENU): Best choices for aged care



Well-balanced and consistent nutrition is vital for older people's quality of life, positive health outcomes, and maintenance of independence. Yet research suggests the majority of Australians with dementia in residential aged care are malnourished or at risk of malnourishment. The MENU project seeks to change this situation by trialling a practical intervention that was informed by aged care home staff ideas of how to improve care. The project team is working with staff, residents and families in two aged care homes to collaboratively select, implement and evaluate best-evidence nutrition care strategies that are tailored to the needs and conditions of each aged care home. A range of baseline data have been collected so far, including from observations of care practices, nutritional assessment of residents, staff nutrition knowledge surveys, and workshop focus groups. Implementing MENU may enhance staff capacity to practice best evidence care, reduce nutrition-related ill health and optimise quality of life for aged care home residents living with dementia.

The research is funded by a $90,000 grant from the Tasmanian Community Fund.

Investigators:

- Dr Emma Lea
- Dr Lyn Goldberg
- Ms Andrea Price
- Professor Fran McInerney
- Dr Kathleen Doherty
- Professor Elizabeth Beattie (Queensland University of Technology)
- Professor Liz Isenring (Bond University)
- Ms Amber Johnstone

PREVENTION

Investigating the impact of repeat anaesthetic exposure in Alzheimer's disease

A group of researchers from the Wicking Dementia Centre, and collaborators, are exploring whether exposure to anaesthetics is an environmental factor that may link post-operative cognitive dysfunction (POCD) with the development and/or progression of Alzheimer's disease. POCD is common after anaesthesia in the elderly and includes symptoms such as delirium, memory loss and diminished high-level cognitive function that can last from days to weeks. POCD has been linked to Alzheimer's disease as similar molecules in the brain (beta-amyloid and tau) are detected in both conditions. As life expectancy increases there is a concomitant rise in the number of elderly people that are exposed to anaesthesia for surgical procedures.

The researchers used a transgenic mouse model of Alzheimer's disease to investigate the role of repeat anaesthetic exposure on Alzheimer's disease progression. Mice were exposed to three doses of the general anaesthetic propofol, delivered at monthly intervals. Propofol is used for outpatient procedures, such as colonoscopies, as well as for extensive surgeries such as cardiac and hip operations.

This work investigated whether repeat anaesthetic exposure in Alzheimer's disease mice altered the progressive accumulation of beta-amyloid plaques (abnormal insoluble aggregations of protein between cells in the brain) and loss of connections between nerve cells that occurs over the course of Alzheimer's disease. The study did not detect any changes in the beta-amyloid plaque pathology or connections between nerve cells between Alzheimer's disease mice exposed to repeated anaesthesia versus those with no anaesthetic exposure. This suggests that repeat propofol exposure may not exacerbate plaque pathology accumulation or the loss of connections between nerve cells that occurs as Alzheimer's disease progresses.

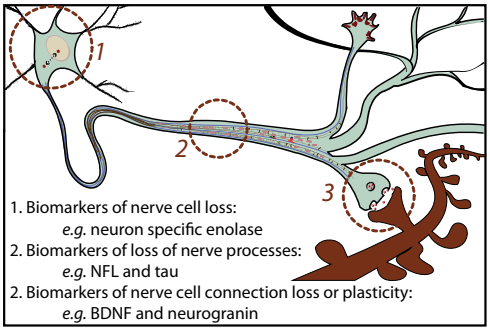
Investigators:

- Dr Adele Woodhouse
- Dr Carmen Fernandez-Martos
- Dr Rachel Atkinson
- Ms Kelsey Hanson
- Dr Jessica Collins
- Mr Aidan O'Mara
- Dr Nico Terblanche
- Clinical Assoc Prof Marcus Skinner
- Professor James Vickers
- Assoc Prof Anna King

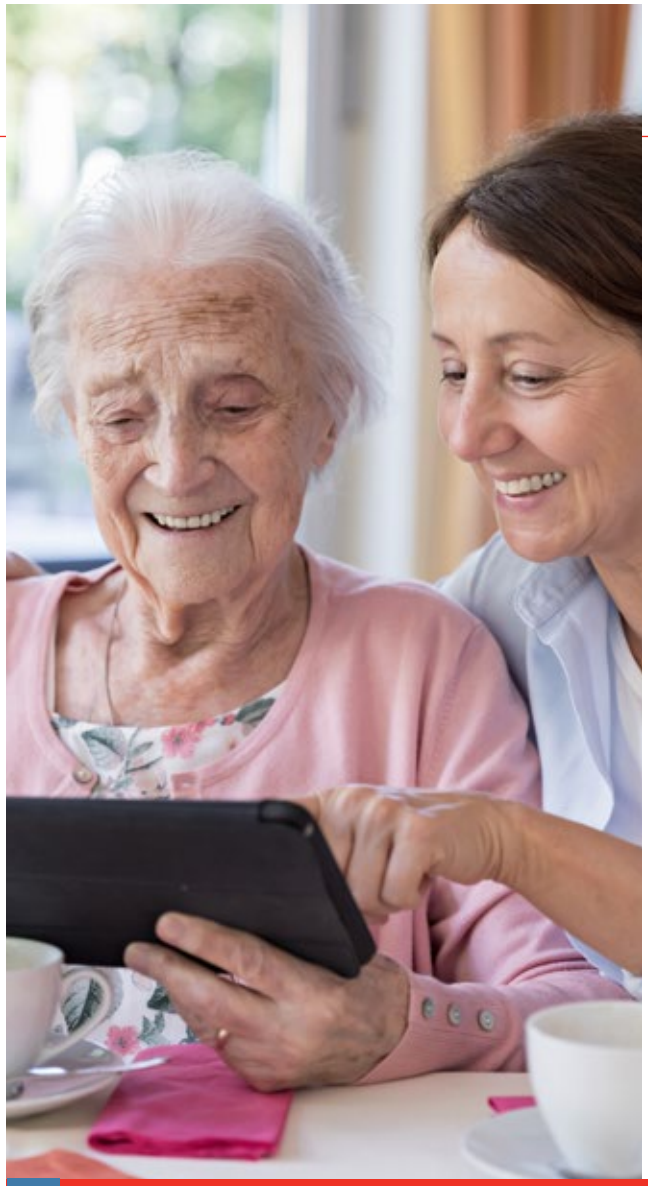
CAUSE

Biomarker research

Associate Professor Anna King is funded by a National Health and Medical Research Council Fellowship ($720,000) to work towards developing a blood test that can tell us about how healthy the brain is and as an indicator of nerve cell degeneration in the brain. In dementia, degeneration of the nerve cells closely correlates with cognitive decline and it is hoped that measuring biomarkers of degeneration in the brain will allow early detection of problems as well as indicating when interventions are successful.



The team are particularly interested in a protein called neurofilament (NFL) which leaks out of nerve cells when they degenerate and ends up in the blood. However, levels of this protein in the blood are low and difficult to detect. To overcome this the University of Tasmania funded the purchase of the first SIMOA analyser in Australia, technology that can measure levels of protein in the blood at 100X lower concentrations than has previously been possible. The team are now investigating the normal levels of this protein in healthy older individuals as well as how changes in this protein over time relate to cognitive changes and the development of brain disease. They will also investigate other proteins which may indicate damage to specific nerve cells structures such as the synapse, which is the communication point between nerve cells. The overall goal of this research is to better detect brain changes that are occurring in living individuals as an early warning sign for intervention.



Three in 10 people over the age of 85 and almost one in 10 people over 65 have dementia

The National Centre for Social and Economic Modelling NATSEM (2016). *Economic Cost of Dementia in Australia 2016-2056.*

Our people

The Wicking Dementia Centre staff profile has continued to grow throughout 2018, with 92 staff and students working across many projects. The Centre's Executive oversees the strategic and operational direction of the Centre.

Wicking Dementia Centre Executive

Professor James Vickers, Director

Professor James Vickers is Director of the Wicking Dementia Centre. James is a world-renowned researcher with interests including neurodegenerative disease (particularly Alzheimer's disease), traumatic brain injury, structural brain plasticity, ageing-related changes in cognition and health services for dementia.

Caroline Gray, Business Manager

Caroline leads the professional staff across the Centre, and oversees the administrative, financial and resourcing activities across all major projects. Caroline joined the University of Tasmania in 2003 and has worked across several roles while completing a Master in Business Administration.

Associate Professor Anna King, Associate Director (Research)

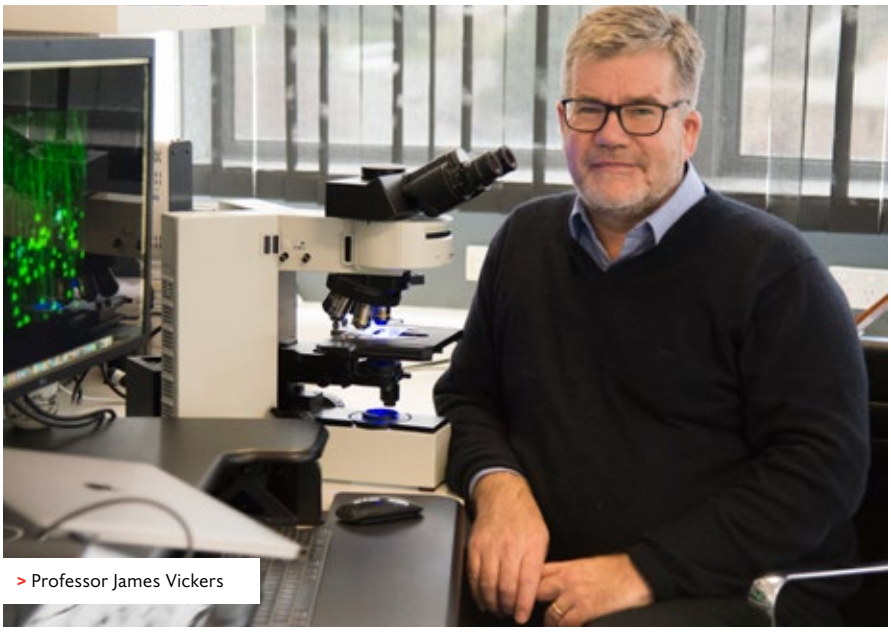
Associate Professor Anna King is a member of the NHMRC National Institute of Dementia Research and was recently awarded a Boosting Dementia Research Leadership Fellowship from the NHMRC (2018 – 2021). Anna also plays a key role in the Wicking Centre's educational offerings including the Bachelor of Dementia Care, and the Understanding Dementia MOOC.

Associate Professor Alison Canty, Associate Director (Learning & Teaching)

Associate Professor Alison Canty was centrally involved in leading the development and rapid growth of the high quality, evidence-based, award winning Bachelor of Dementia Degree Program, and has held an education governance role within the Centre for several years. Alison's research focuses on mechanisms of neuroplasticity, degeneration, and trauma – all of which are central to understanding the pathology of dementia.

> Caroline Gray

> Associate Professor Anna King



> Professor James Vickers

> Associate Professor Alison Canty

Wicking Dementia Centre Advisory Board

The Wicking Dementia Centre is supported by an Advisory Board, comprised of a small group of successful individuals each bringing a unique and valuable skill set to advance the Centre's purpose.

The Hon. David Bartlett, Chair

The Hon. David Bartlett was the 43rd Premier of the Australian state of Tasmania. During his parliamentary career he also served as Minister for Education and Skills and Minister for Innovation, Science and Technology. Prior to entering politics David had a successful career in the technology sector as CIO and innovation specialist. Since standing down as Premier in 2011, David has built a portfolio of work in the technology and not-for-profit sectors.

> The Hon. David Bartlett

Professor Andrew Robinson

Professor Robinson is co-founder of the Wicking Dementia Centre and is recognised as a national and international leader and innovator in aged care. He led translational research and innovation projects involving a broad range of community and residential aged care services across Australia. Andrew is an international leader in dementia education through the Wicking Teaching Aged Care Facility program.

Alastair Lynch

Alastair is a former professional AFL footballer with the triple premiership winning Brisbane Lions and is currently a commentator for Foxsports AFL channel, Foxfooty, a Director of Health and Wellbeing Company, HBP Group and a Director of Gravitas Leadership Group. Alastair has recently been appointed an Ambassador for St Luke's Health. His business career has followed his passion for assisting others with maintaining or achieving a high level of health, leadership and AFL Football.

> Professor Andrew Robinson

> Alastair Lynch

Robyn Charlwood

Robyn is an experienced not for profit leader and CEO, philanthropy strategy designer and relationship expert. Robyn is currently the co-founder and director of *Filantropia Re-thinking Philanthropy*, a strategic advisory business. Robyn uses her business acumen, diverse career experience and strong interpersonal aptitude to skilfully connect people and communities of interest for mutual benefit.

Patricia Chew

Patricia worked in premier global dealing rooms in the financial heart of Singapore, trading international bond markets and salestrading regional Asian equity markets. After moving to Tasmania in 2002, she found herself back in the financial markets, with Morgans Financial, Australia's largest retail stockbroking firm. She often took a turn doing the market opening report on ABC Radio Hobart where she would weave together the financial information at hand, with personal stories and anecdotes, to expand the listener's world to encompass an Asian view on education, youth unemployment, aged pension and philosophy.

> Robyn Charlwood

> Patricia Chew

Wicking Dementia Centre staff and students – 2018

Executive	Professor James Vickers	Director
	Caroline Gray	Business Manager
	Associate Professor Anna King	Associate Director Research
	Associate Professor Alison Canty	Associate Director Learning & Teaching
Staff	Dr Rachel Atkinson	Lecturer
	Dr Alice Rota Bartelink	Lecturer
	Lily Bartkevicius	Student and Learning Skills Advisor
	Dr Susanne Becker	Lecturer
	Monique Belfer	Administration Officer, MOOCs
	Dr Bill Bennett	Senior Technical Officer
	Aidan Bindoff	Statistician and PhD Candidate
	Dr Vlasti Broucek	Senior Technical Developer
	Louise Carnell	Executive Assistant
	Helen Ceperkovic	Associate Lecturer
	Dr Jessica Collins	Research Fellow
	Dr Tony Cook	Senior Lecturer
	Janet Counsell	Student and Learning Skills Advisor
	Dr Helen Courtney-Pratt	Senior Research Fellow
	Alexander Cronk	Research Assistant
	Chantel Crossman	Stakeholder Engagement Manager
	Justin Dittman	Laboratory Technician
	Dr Kathleen Doherty	Senior Research Lead - Dementia MOOCs
	Helen Douglas	Project Manager, DTA
	Sam Duigan	Administration Officer - Promotion and Marketing
	Josh Eastgate	Senior Technical Developer
	Karin Easton	Administration Officer - Business Support
	Dr Claire Eccleston	Lecturer
	Dr Kate-Ellen Elliott	Senior Research Fellow
	Hannah Fair	Administration Officer, THBP
	Dr Maree Farrow	Senior Academic Lead – Dementia MOOCs
	Rachael Gates	Project Manager, MOOCs
	Dr Lyn Goldberg	Senior Lecturer
	Paula Heald	Team Leader Award Courses
	Dr Joanna Healy	Lecturer
	Helen Hornsby	Senior Developer of Online Education
	Dr Sunny Jang	Lecturer
	James Jestrimski	Administration Officer, Award Courses
	Amber Johnstone	Research Assistant
	Dr Matthew Kirkcaldie	Senior Lecturer
	Dr Shannon Klekociuk	Lecturer
	Dr Jana Kopecna	Research Assistant
	Dr Emma Lea	Research Fellow
	Karina Lei	Senior Technical Developer
	Dr Jacqueline Leung	Lecturer
	Kerri Magnussen	Research Assistant, THBP

	Graeme McCormack	Senior Technical Officer
	Professor Fran McInerney	Professor of Dementia Studies & Education
	Dr Hoang Nguyen	Associate Lecturer
	Chris Parker	Manager Online Learning Systems & Support
	Dr Sharn Perry	Lecturer
	Russell Porter	Educational Developer, DTA
	Andrea Price	Lecturer and PhD Candidate
	Professor Andrew Robinson	Professor of Dementia Training Australia
	Jo-Ann Savage	Research Assistant
	Dr Duncan Sinclair	Lecturer
	Dr Kimberley Stuart	Research Fellow
	Joanna Sun	Development Officer and PhD Candidate
	Cherie Tan	Project Officer, MOOCs
	Dr Nan Tian	Technical Officer
	Laura Tierney	Research Assistant and PhD Candidate
	Tanya Wadwell	Student and Learning Skills Advisor
	Dr Juanita Westbury	Senior Lecturer
	Dr Adele Woodhouse	Research Fellow
	Dr Jenna Ziebell	Lecturer
Students	Esther Ashworth Briggs	PhD Candidate
	Azam Bazooband	PhD Candidate
	James Bender	PhD Candidate
	Ellie Bucher	PhD Candidate
	Sueanne Chear	PhD Candidate
	Anisuzzaman Chowdhury	PhD Candidate
	Yasmine Doust	Honours Student
	Sam Dwyer	PhD Candidate
	Adoni Fiotakis	Honours Student
	Barbora Fulopova	PhD Candidate
	Pan Gongbu	PhD Candidate
	Kelsey Hanson	PhD Candidate
	Olivia Holloway	PhD Candidate
	Ross Langley	PhD Candidate
	Ron Mason	PhD Candidate
	John McManus	Honours Student
	Nkoli Mmako	PhD Candidate
	Aidan O'Mara	PhD Candidate
	Sladana Pavkovic	Honours Student
	Thalia Perez Suarez	PhD Candidate
	Andrew Phipps	PhD Candidate
	Manuela Pietzuch	PhD Candidate
	Alex Sella	Honours Student
	Tara Sinclair	Honours Student
	Sharon Stoddart	Honours Student
	John Viana	PhD Candidate
	Jackie Walker	Honours Student

In the spotlight

Staff

Dr Juanita Westbury
The RedUSe (Reducing Use of Sedatives) Project

Dr Juanita Westbury is a Senior Lecturer, with a background in community pharmacy. When working in residential aged care homes, Juanita became concerned about the high use of psychotropic medication. In 2011 Juanita started her PhD with the aim of developing an intervention to reduce inappropriate use of these medications and soon after, the Reducing Use of Sedatives (RedUSe) project was established.

The RedUSe project was developed in collaboration with the aged care industry, advocacy groups, community representatives, the Pharmaceutical Society of Australia and NPS Medicineswise. Demand to be involved in the project was strong. For the national expansion, the required number of aged care facilities to be involved was 100, however a total of 320 expressions of interest were received.

To date RedUSe has been awarded a total of $3.3 million in grants supporting the project. The multi-strategic, interdisciplinary project has significantly reduced antipsychotic and benzodiazepine use in over 170 residential aged care homes so far, and has increased the rate of psychotropic medication review.

In 2018, the RedUSe project was awarded the Australia and New Zealand Mental Health Services award for education, training or workforce development in Adelaide and Dr Westbury was awarded the Heather and Christopher Chong Outstanding Achiever Award at the Tasmanian Community Achievement Awards in November 2018.

RedUSe community representative Mrs Margaret Bird was awarded a Medal of the Order of Australia (OAM) for service to the aged, and to the community of Tasmania at the 2018 Australia Day Honours.

> Dr Juanita Westbury

Professor Fran McInerney
Dementia Literacy Assessment Model Project

A group of Wicking Dementia Centre researchers, led by Professor Fran McInerney was awarded a $350,000 Dementia and Aged Care Services (DACS) grant in 2017, for the Dementia Literacy Assessment Model (DLAM) project. The project aims to develop a measure for dementia literacy, which broadly refers to 'consumer dementia knowledge and care access'. The project has progressed through the design and piloting of the Consumer Access to Services: Dementia (CAS-Dem) survey, analysing responses from more than 30,000 Understanding Dementia MOOC participants. This survey, together with Wicking Dementia Centre's earlier Dementia Knowledge Assessment Survey (DKAS), will comprise the Dementia Literacy Assessment Model (DLAM); the first model specifically designed to measure dementia literacy.

The CAS-Dem pilot survey achieved a strong response, with MOOC participants providing a rich source of data and feedback to refine the tool for future application. This moves the project closer to the development of a model to measure consumer dementia knowledge and literacy regarding choice and direction of service elements in aged care.

> Professor Fran McInerney

Research Students

Kelsey Hanson, PhD Candidate
The Cytoskeleton: Understanding new mechanisms of dementia

Kelsey Hanson is near to completion of her PhD, looking at new therapeutic approaches to dementia, which prevent the loss of connections between neurons.

One way that nerve cell connections are lost is thought to be the breakdown of cellular components called the cytoskeleton, which like our skeleton, is essential for maintaining cell structure. A model was developed of this connection loss and changes to the cytoskeleton were examined. The drug, trichostatin-A, that reverses these changes, was used to determine if it protects against cytoskeletal breakdown. It was found that neurons treated with trichostatin-A had reduced damage in this model, suggesting that trichostatin-A would protect nerve cell connectivity. Therefore, trichostatin-A could be a potential therapeutic treatment for people living with dementia to reduce disease progression.

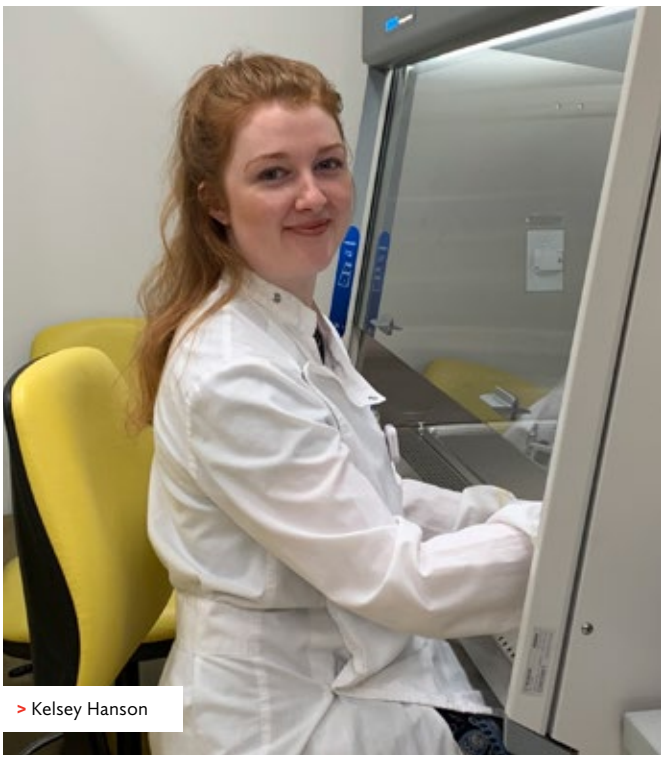
In May 2018, Kelsey received a Postgraduate Student Award at the Australian Society of Medical Research Awards for her presentation, "*The role of microtubules in excitotoxin-induced axon degeneration*". The award aims to recognise outstanding contributions to medical research by Postgraduate students whilst also giving the student the opportunity to share their work in the medical research community.

Ron Mason, PhD Candidate
GP Attitudes and Confidence toward Dementia

Ron Mason has been working with the Wicking Dementia Centre since 2012 developing his expertise in the evaluation of educational interventions. In 2015 Ron commenced his PhD studies which focus on measuring the impact of dementia education workshops designed for general practitioners (GPs) and registrars.

GPs play an important role in the recognition, diagnosis and management of dementia. Currently, it is estimated that many patients with dementia do not receive a timely diagnosis and some GP's do not routinely disclose a diagnosis to a patient. While knowledge of dementia is one important contributor to this, increasingly GPs' attitudes and confidence are being viewed as equally important factors.

During his PhD, Ron developed and tested a new survey, the *General Practitioner Attitudes and Confidence Survey* - Dementia (GPACS-D). The GPACS-D Survey measures three parameters; Confidence in Clinical Abilities; Attitude to Care; and Engagement. Important findings suggest that GPs have a positive attitude towards the treatment of dementia, and that attending a dementia education workshop improves confidence and attitudes toward dementia.



> Kelsey Hanson

> Ron Mason

Honours scholarships

The Wicking Dementia Centre is a multidisciplinary centre which offers students a range of research and learning opportunities alongside experts in neuroscience and health services research. Students are integrated into a comprehensive research program ranging from developing dementia friendly communities, to dementia prevention through cognitive stimulation through to laboratory-based animal and cell culture studies in the cause and treatment of dementia.

In 2018, the following Honours Students were awarded scholarships to support their studies:

- **Sladana Pavkovic**
  Wicking Centre Health Services Honours Scholarship in Dementia Research
  Consumer consultation on a blood test for brain health
- **Sharon Stoddart**
  Wicking Centre Health Services Honours Scholarship in Dementia Care
  Barriers and enablers to leisure provision in Nursing Homes
- **Yasmine Doust**
  Rhonda Ewart Honours Scholarship in Dementia Care
  Neurofilament Light Chain in Diffuse Traumatic Brain Injury
- **Alex Sella**
  George Huizing Honours Scholarship in Motor Neuron Disease
  Motor deficits in an NFL KO Mouse Model of Neurodegenerarive Disease
- **John McManus**
  Wicking Centre Neuroscience Honours Scholarship in Dementia Research
  Induced sleep disruption and synaptic plasticity in the APP/PS1 transgenic mouse

Dementia, including Alzheimer's disease, is the

second lead cause of death of Australians,

contributing to 5.4% of all deaths in males and 10.6% of all deaths in females each year.

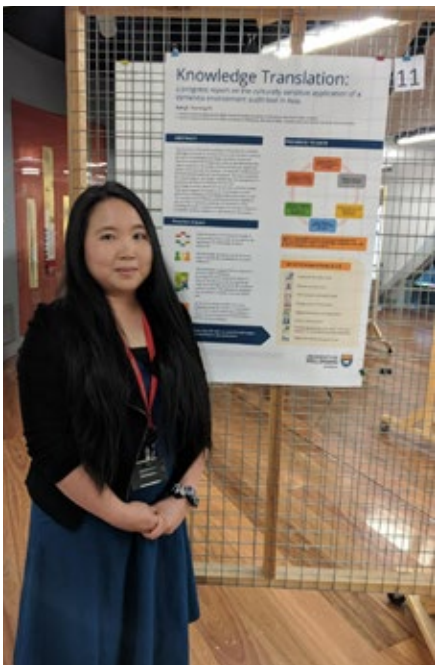
Australian Bureau of Statistics 2017

Community events

In 2018, the Wicking Dementia Centre hosted, and participated in, a range of community events, public forums, and the annual Tasmanian Dementia Symposium. Engaging with the community, at a local, national and global level is an important role of the Wicking Dementia Centre. In particular, it is through engagement with people living with dementia and their families and carers, that provides the Centre with a deep knowledge of where the Centre's impact can most greatly be felt.

The 3rd Tasmanian Dementia Symposium hosted by the Wicking Dementia Centre was held in October 2018. The forum this year included a debate – with the statement contested for and against being '*Dementia prevention is not possible because people are unwilling to change their lifestyles*'. The affirmative side was headed up by Dr Maree Farrow from the Wicking Centre, and included Professor Andrew Healthcote, Professor of Cognitive Science and Dr Peta Cook, Senior Lecturer in Sociology; with the negative side led by Professor Fran McInerney from the Wicking Centre and consisting of Dr Michele Callisaya, Senior Research Fellow and Dr Kim Norris, Senior Lecturer in Psychology. The symposium showcased the Preventing Dementia MOOC in an informative, yet light-hearted approach – and provided much opportunity for thoughts and discussions about risk, behaviours and willingness to change.

As part of the Symposium a poster session was held allowing academic staff and students to present their work in the form of a poster. Presenters were encouraged to interact with the general public and explain their research to a non-academic audience.



Dr Fiona Kumfor, Dementia Research Development Fellow, from the University of Sydney, visited the Centre in April, and presented a free public lecture '*Social cognition and Motivation in Dementia: Insights into Theory, Neurobiology, and Clinical Implications*'. Dementia is typically associated with changes in cognition, such as memory and executive functioning. However, frontotemporal dementia, a rare younger onset dementia syndrome, is characterised by changes in behaviour and communication. Fiona discussed studies investigating these syndromes employing experimental tasks, psychophysiological measures (eyetracking, facial electromyography, skin conductance), and neuroimaging to demonstrate how these complex human behaviours are compromised in frontotemporal dementia, and their neurobiological correlates.

Once again in 2018, the Wicking Dementia Centre's 'Giant Inflatable Brain' was a highlight at Tasmania's agricultural show, AGFEST in May; as well as the Festival of Bright Ideas which is a community-focused festival that aims to ignite and inspire an interest in science through hands-on activities to Tasmania's youngest generations. There was keen interest in the Giant Brain with a number of activities run by Wicking Centre staff and students encouraging children and adults to learn about the different areas of the brain and the effects of dementia.

Community forums were also held at local libraries and councils around Tasmania throughout 2018 to coincide with a number of key events such as Seniors Week and Dementia Awareness Month.

In October, the Wicking Centre received first place in the prestigious Tasmanian Export Awards for Health and Biotechnology, for the Understanding Dementia and Preventing Dementia MOOCs. The award recognised the far-reaching impact the Centre's unique education model is having on a rapidly increasing global health issue.

The delivery of dementia education through the Centre's MOOCs has removed access barriers to regional, remote and rural communities globally with participants engaging in the course from places including Nigeria, Chile, Namibia, China, Botswana and Nepal.

A public lecture was also delivered by Professor Joe Ibrahim from Monash University in October, followed by a screening of his award-winning film *'Dignity of risk'*. Joe presented his film and answered audience questions that further explored the notion of dignity of risk and the complex interplay between individual, family and organisational requirements to manage risk.

> Prof Fran McInerney, Caroline Gray, Prof James Vickers, Chantel Crossman, Hon David Bartlett

Grant funding

Current funding

Project title	Dementia Training Australia
CI's	Fleming R, Burton R, Winbolt M, Beattie E, **Robinson A**, Stafford A
Funding amount	$1.7 million (of $27.9 million)
Funding body	Department of Health, Australian Commonwealth Government
Period	2016 – 2019
Project title	The Tasmanian Healthy Brain Project: a longitudinal intervention study to reduce the risk of ageing-related cognitive decline and dementia
CI's	**Vickers J**, **Summers M**, Valenzuela M, Summers J**, King A, Robinson A,** Srikanth V
Funding amount	$878,790
Funding body	National Health and Medical Research Council
Period	2016 – 2020
Project title	Improving the health and well-being of Tasmanian Aboriginal people - one community's focus on individualised support, specialised training, and leadership in dementia care
CI's	Cox T, **Goldberg L**, Baldock D, **Price A**, Hoang T, Cross D
Funding amount	$834,757
Funding body	Department of Health: Dementia and Aged Care Services (DACS)
Period	2017 – 2019
Project title	Detecting biomarkers of brain health in dementia
CI's	**King A**
Funding amount	$720,144
Funding body	NHMRC: Boosting Dementia Research Leadership Fellowship Grant
Period	2018 – 2021
Project title	Work4Dementia: Development of an evidence-based intervention to build capacity and resilience for the Australian dementia care workforce
CI's	**Elliott K**
Funding amount	$595,220
Funding body	National Health and Medical Research Council
Period	2016 – 2021
Project title	Paving the way for future stroke drug development: creating a reproducible, humanised model of stroke
CI's	Landowski L, Howells D, Castely H, Sutherland B, **Kirkcaldie M**
Funding amount	$442,570
Funding body	Royal Hobart Hospital Research Foundation
Period	2017 – 2019
Project title	Microfluidic technology to help understand physical damage to brain cells
CI's	Breadmore M, Guijt R, Dickson T, **King A**
Funding amount	$415,500
Funding body	Australian Research Council
Period	2015 – 2019

Project title	Axon degeneration and axon protection in CNS disease and injury
CI's	**King A**, **Vickers J**, **Canty A**
Funding amount	$377,000
Funding body	National Health and Medical Research Council
Period	2015 – 2018
Project title	To develop a model to measure consumer dementia knowledge and literacy utilising a large Australian community sample enrolled in the University of Tasmania Wicking Centre Understanding Dementia MOOC
CI's	**McInerney F**, **Doherty K**, **Eccleston C**, **Vickers J**, **Robinson A**
Funding amount	$349,200
Funding body	Department of Health: Dementia and Aged Care Services (DACS)
Period	2017 – 2020
Project title	Masonic Centenary Medical Research Foundation improving dementia care program
CI's	**Lea E, Doherty K, Robinson A**
Funding amount	$250,000 (in collaboration with Masonic Care)
Funding body	Masonic Care Tasmania, Masonic Centenary Medical Research Foundation, and the Wicking Dementia Research and Education Centre
Period	2017 – 2019
Project title	TDP-43 Misprocessing drives synaptic deficits that leads to ALS
CI's	Blizzard C, **Woodhouse A**, Walker A
Funding amount	$249,861
Funding body	Motor Neurone Disease Research Institute of Australia
Period	2017 – 2018
Project title	Selectively vulnerable neurons in Alzheimer's disease: functional and morphological changes in healthy ageing and early Alzheimer's disease
CI's	**Woodhouse A**, **Vickers J**
Funding amount	$220,000
Funding body	Alzheimer's Australia Dementia Research Foundation
Period	2015 – 2019
Project title	Identifying the role of oligodendrocytes in disease onset and the progression in Amyotrophic Lateral Sclerosis
CI's	**Leung J**, **King A**
Funding amount	$99,923
Funding body	Motor Neurone Disease Research Institute of Australia
Period	2017 – 2018
Project title	Sustained effective oral care to significantly reduce aspiration pneumonia experienced by adults with dementia in residential care
CI's	**Goldberg L**, Crocombe L, **Robinson A**, Jones I, **Lea E**, **Westbury J**, Beattie E, Toye C, Brennan D, Palmer A, Heiss CJ, **McInerney F**
Funding amount	$99,752
Funding body	Dementia Collaborative Research Centres
Period	2016 – 2018

Project title	Towards axon protection in ALS
CI's	**King, A Leung J, Perry S**
Funding amount	$98,471
Funding body	Motor Neuron Disease Research Institute of Australia
Period	2018 – 2019
Project title	Staying connected: determining targets to protect neuronal circuitry in ALS
CI's	**King A**, **Kirkcaldie M**
Funding amount	$97,119
Funding body	Motor Neuron Disease Research Institute of Australia
Period	2017 – 2018
Project title	Does plasticity drive Alzheimer's disease and can sleep help
CI's	**Kirkcaldie M**, **King A**, **Vickers J**
Funding amount	$94,140
Funding body	The Masonic Foundation: Judith Jane Mason & Harold Stannett Williams
Period	2017 – 2019
Project title	Carers CARE (Mobile App) to assist dementia carers coping resilience
CI's	Scott J, de Salas K, **Robinson A**, Schuez B, Lewis I, Sanderson K, **Elliott K**, Quinn M
Funding amount	$58,626 (of $293,128)
Funding body	Tasmanian Community Fund
Period	2016 – 2019
Project title	What do they know about dementia? Determining community knowledge about dementia
CI's	**Eccleston C**, **Courtney-Pratt H**, **McInerney F**, **Doherty K**
Funding amount	$50,000
Funding body	Dementia Australia Research Foundation
Period	2017 – 2018
Project title	CRISPR/Cas gene editing of Batten disease genes in patient-specific stem cells
CI's	**Cook A**, Hewitt A, **King A**, Pebay A, Grubman A
Funding amount	$51,411
Funding body	Batten Disease Support and Research Association
Period	2017 – 2018
Project title	How do microglia-synapse dynamics change with Alzheimer's disease?
CI's	**Ziebell J**, **Canty A**, **King A**
Funding amount	$50,000
Funding body	Dementia Australia Research Foundation
Period	2017 – 2018
Project title	Identifying critical neuronal signatures of epigenetic modifier complexes of Alzheimer's disease initiation and progression
CI's	Taberlay P, **Woodhouse A**, Robinson M, Mercer T
Funding amount	$33,000
Funding body	Brain Foundation
Period	2017 – 2018

Project title	Axon degeneration and axon protection in Alzheimer's disease
CI's	**King A**, **Hanson K**
Funding amount	$30,000
Funding body	The Yulgilbar Foundation
Period	2015 – 2018
Project title	Improving the oral health of Tasmanians in residential aged care
CI's	**Goldberg L**, Crocombe L, Bettiol S, **King A**
Funding amount	$28,336
Funding body	Tasmanian Community Fund
Period	2017 – 2018
Project title	New geNOMeC maps of neuronal epigenetic changes in Alzheimer's disease
CI's	Taberlay P, **Woodhouse A**
Funding amount	$24,971
Funding body	Rebecca L Cooper Medical Research Foundation
Period	2017 – 2018
Project title	A mouse model of mild maternal iodine deficiency and its effect on brain structure
CI's	**Kirkcaldie M**, **King A**, **Vickers J**, Burgess J, Hynes K
Funding amount	$16,800
Funding body	Brain Foundation
Period	2016 – 2019

New funding 2018

Project Title:	Wicking Dementia Research and Education Centre (Stage 3)
CI's:	**Vickers J, Robinson A**
Funding Amount:	$3,721,000
Funding Body:	JO & JR Wicking Trust
Period:	2018 – 2022
Project title	The Australian Dementia Network (ADNeT): Bringing together Australia's dementia stakeholders
CI's	Rowe C, Sachdev P, Naismith S, Breakspear M, Broday H, Anstey K, Martins R, Ward S, **Vickers J**, Masters C
Funding amount	$1 million (of $18 million)
Funding body	National Health and Medical Research Council
Period	2018 – 2022
Project title	BDNF genotype and emotional memory in PTSD
CI's	Felmingham L, **Vickers J**
Funding amount	$108,402
Funding body	National Health & Medical Research Council
Period	2018 – 2020

Project title	Meaningful engagement in nutritional understanding: Best choices for aged care
CI's	**Lea E**, **Goldberg L**, **Price A**, **McInerney F**, **Doherty K**, Beattie E, Isenring L
Funding amount	$90,000
Funding body	Tasmanian Community Fund
Period	2018 – 2020
Project title	Establishing an Aboriginal Primary Health Care Worker program in Tasmania
CI's	**Goldberg L**, Dillon T, Baldock D
Funding amount	$78,000
Funding body	Department of Prime Minister and Cabinet – Indigenous Affairs
Period	2018 – 2019
Project title	Building Aboriginal community capacity to address dementia
CI's	**Goldberg L**, Baldock, D
Funding amount	$76,798
Funding body	Equity Trustees Limited
Period	2018 – 2019
Project title	How does stress impact pathological processes in Alzheimer's disease?
CI's	**Sinclair D**, **King A**, **Vickers J**
Funding amount	$50,000
Funding body	Dementia Australia Research Foundation
Period	2018 – 2019
Project title	Conversation Cards
CI's	**Doherty K**, **Coutney-Pratt H**
Funding amount	$10,000
Funding body	Dementia Australia Research Foundation
Period	2018 – 2019
Project title	In pursuit of an innovative experimental model of vascular dementia – a pilot study
CI's	**Canty A**, Sutherland B, **Bennett B**
Funding amount	$10,000
Funding body	College of Health, UTAS
Period	2018
Project title	Developing a robust laboratory protocol for analyzing oral swabs for pathogenic or key microbiological flora
CI's	Crocombe L, Bettiol S, **Goldberg L**, **King A**
Funding amount	$8,485
Funding body	Wrigley Company Foundation and the Australian Dental Health Foundation
Period	2018
Project title	Could gut microbiota influence cognitive decline and Alzheimer's disease?
CI's	**Ziebell J**, **King A**, **Lea E**
Funding amount	In kind ($12,000)
Funding body	uBiome
Period	2018 – 2020

Select Publications from our Themes

Cause

Hanson, K and Tian, N and Vickers, JC and King, AE, "The HDAC6 Inhibitor Trichostatin A Acetylates Microtubules and Protects Axons From Excitotoxin-Induced Degeneration in a Compartmented Culture Model", *Frontiers in Neuroscience*, 12 Article 872. (2018)

King, A and Brain, A and Hanson, K and Dittmann, J and Vickers, J and Fernandez-Martos, C, "Disruption of leptin signalling in a mouse model of Alzheimer's disease", *Metabolic Brain Disease*, 33 (4) pp. 1097-1110. (2018)

Leung, JYK and Bennett, WR and King, AE and Chung, RS, "The impact of metallothionein-II on microglial response to tumor necrosis factor-alpha (TNFα) and downstream effects on neuronal regeneration", *Journal of Neuroinflammation*, 15 (1) pp. 1-9. (2018)

Tang, AD and Bennett, W and Hadrill, C and Collins, J and Fulopova, B and Wills, K and Bindoff, A and Puri, R and Garry, MI and Hinder, MR and Summers, JJ and Rodger, J and Canty, AJ, "Low intensity repetitive transcranial magnetic stimulation modulates skilled motor learning in adult mice", *Scientific Reports*, 8 Article 4016. (2018)

Prevention

Thow, ME and Summers, MJ and Saunders, NL and Summers, JJ and Ritchie, K and Vickers, JC, "Further education improves cognitive reserve and triggers improvement in selective cognitive functions in older adults: The Tasmanian Healthy Brain Project", *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, 10 pp. 22-30. (2018)

Woodhouse, A and Fernandez-Martos, CM and Atkinson, RAK and Hanson, KA and Collins, JM and O'Mara, AR and Terblanche, N and Skinner, MW and Vickers, JC and King, AE, "Repeat propofol anesthesia does not exacerbate plaque deposition or synapse loss in APP/PS1 Alzheimer's disease mice", *BMC Anesthesiology*, 18 (1) Article 47. (2018)

Care

Courtney-Pratt, H and Mathison, K and Doherty, K, "Distilling authentic community-led strategies to support people with dementia to live well", *Community Development*, 49 (4) pp. 432-449. (2018)

Elliot, K-E and Scott, JL and Stirling, CM and Martin, AJ, "Developing Resilience in the Aged and Dementia Care Workforce", *Resilience in Aging: Concepts, Research, and Outcomes*, Springer International Publishing, B Resnick, LP Gwyther and KA Roberto (ed), pp. 347-365. (2018)

Goldberg, LR and Cox, T and Hoang, H and Baldock, D, "Addressing dementia with Indigenous peoples: a contributing initiative from the Circular Head Aboriginal community", *Australian and New Zealand Journal of Public Health* pp. 1-3. (2018)

Goldberg, LR and Price, AD and Becker, SE and Bindoff, A "The critical importance of a "personhood lens" in reframing dementia care". In Gaynor Macdonald and Jane Mears (Eds), *Dementia as Social Experience: Valuing Life and Care*. Abington, UK: Routledge (2018)

Lea, EJ and Goldberg, LR and Price, AD and Tierney, LT and McInerney, FJ, "Best intentions or best practice? A case study of the nutritional needs and outcomes of a person with dementia living in a residential aged care home", *International Journal of Nursing Practice* pp. 1-8. (2018)

Marsh, P and Courtney-Pratt, H and Campbell, M, "The landscape of dementia inclusivity", *Health & place*, 52 pp. 174-179. (2018)

McInerney, F, "Dementia discourse – A rethink?", *Dementia*, 16 (4) pp. 409-412. (2018)

McInerney, F and Doherty, K and Bindoff, A and Robinson, A and Vickers, J, "How is palliative care understood in the context of dementia? Results from a massive open online course", *Palliative Medicine*, 32 (3) pp. 594-602. (2018)

Nguyen, H and Terry, D and Phan, H and Vickers, J and McInerney, F, "Communication training and its effects on carer and care-receiver outcomes in dementia settings: A systematic review", *Journal of Clinical Nursing* pp. 1-20. (2018)

Westbury, JL and Gee, P and Ling, T and Brown, DT and Franks, KH and Bindoff, I and Bindoff, A and Peterson, GM, "RedUSe: reducing antipsychotic and benzodiazepine prescribing in residential aged care facilities", *Medical Journal of Australia*, 208 (9) pp. 398-403. (2018)

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