



Flinders Centre for
Ophthalmology, Eye and Vision Research

ANNUAL REPORT 2015

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FCOEVR: Director's Report 2015

Outcomes in 2015 and alignment with University Strategic Plan

Our Centre conducts clinical and translational research, strategic and applied research, and basic biomedical science research related to the eye and vision. We are physically based in Ophthalmology (School of Medicine) and Optometry (School of Health Sciences), located currently within the Faculty of Medicine, Nursing and Health Sciences, but we collaborate widely within our institution, nationally and internationally. Our ranking for "Ophthalmology and Optometry" in the three rounds of the ARC ERA held thus far were: 4 (first round), 5 (second round) and 5 (third round, 2015), and our Centre was highlighted as a flagship in the Flinders University 2015 Research Excellence publication. Over 2015, we increased our research higher degree student load compared with 2014, in alignment with the University's Strategic Plan. We are attempting to improve the quality of our research outputs, grow our Centre size, broaden our collaborations further, and increase our service to the discipline and community. Additional information on these outcomes are summarised below.

Research higher degree student load and completions

Our current PhD student load is 9 students (6 in Ophthalmology and 3 in Optometry). An additional member of the Centre has enrolled in a PhD through the FSE. Three PhD students (Dave, Irani, Kuot) completed their candidatures in 2015. Of note, Alpana Dave was awarded a Vice-Chancellor's Prize for Doctoral Thesis Excellence.

Publications

In 2015, members of the Centre published 56 research articles and letters in peer-reviewed journals. From January to August 2016, we have already generated 48 publications. In 2015, 20% of our articles were published in journals with impact factors above 5.0. A 2015 article on Ebola virus-related eye disease in the high-impact journal *New Engl J Med*, co-authored by Justine Smith, generated substantial national and international media attention.

Grant funding

Centre members generated \$1,683,609 in research grant income as Chief Investigators in 2015, according to Flinders University Research Services Office data, and \$2,142,793 according to the Centre's own records.

Presentations at national and international meetings

From January 2015 to date, Centre members delivered over 75 presentations at international and national meetings. Of these, over 30 were plenary or invited platform presentations.

Highlights of 2015

Highlights included the formal appointment of Catherine Truman as the FCOEVR Visiting Scholar: Artist-in-Residence for 2015-6. An internationally-recognized jeweller and sculptor, Ms Truman is the 2016 SALA artist of the year. In 2015, Justine Smith was elected as a Fellow of the Australian Academy of Health and Medical Sciences, received a Distinguished Service Award from the Association for Research in Vision & Ophthalmology, and a Senior Achievement Award from the American Academy of Ophthalmology. She is Co-Chair of the University's Athena Swan (SAGE) initiative and presented the 2015 Inaugural Lecture in the Flinders Investigators' Public Lecture Series. Jamie Craig presented the Annual Gerard Crock Lecture in Melbourne in October 2015. Konrad Pesudovs was elected Chairman of the Board, National Vision Research Institute and became a member of The Global Burden of Diseases,

Injuries, and Risk Factors Study 2008, Vision and Hearing Loss Expert Group. Keryn Williams shared the award of the DVCR's Scientist of the Year for 2015, delivered the Coster Lecture at the 33rd Annual ANZ Cornea and Eye Bank Meeting, and was appointed as Honorary Senior Principal Research Fellow to SAHMRI.

Research impact and translation

The Centre operates the Centre for Clinical Eye Research in Evidence-Based Ophthalmology, the Australian and New Zealand Ophthalmic Surveillance Unit, the Australian and New Zealand Registry of Advanced Glaucoma, and the Australian Corneal Graft Registry. An international Ocular B Cell Lymphoma Registry is currently under construction.

Specific disease registries, operating as prospective, longitudinal cohort studies, can provide robust, real-world information in circumstances in which randomised, controlled clinical trials are impossible, impractical or too expensive. In May 2015, the Australian Corneal Graft Registry (a national research database established and operated through Flinders University) celebrated its 30th birthday. Since its inception in 1985, over 32,000 records of corneal transplantation from across the country have been registered on a voluntary basis by over 750 ophthalmic surgeons. The Registry is arguably the largest repository of data on corneal transplantation in the world, and has changed clinical practice.

Centre's Mission Statement

Blindness has an enormous impact on quality of life, may shorten life-span and, according to the World Health Organization, is the most expensive of all causes of serious disablement. We conduct research related to the eye and vision. Our goal is to improve outcomes for people with blinding eye conditions, wherever they may be: in our local community, elsewhere in Australia, or internationally. We focus on prevention of disease, as well as on amelioration and cure.

Our Centre, encompassing researchers in ophthalmology and more recently also in optometry, was first established in 2005 with support from Flinders University: we have thus been in operation for over 10 years. We focus on the nexus between vision and health of the eye, a major issue in Australia with its ageing population. Our over-arching goal is to improve patient outcomes. Our research encompasses basic biomedical science, applied research, clinical research, translational research, and health services management research.

Our multidisciplinary programs are geared to:

- understanding the pathophysiology and genetics of common eye conditions;
- developing novel therapeutic agents and biomaterials for ophthalmic use;
- establishing and interrogating registers for common eye disorders;
- understanding the relationships between optical quality and visual performance;
- developing patient-reported measures of quality of life;
- improving the evidence-base that underpins effective eye and vision care.

We currently work on:

- corneal disease, including dystrophies and ectasias;
- inflammatory and infective eye conditions;
- glaucoma;
- congenital and adult cataract;
- molecular genetics of eye disease;
- retinopathy of prematurity and diabetic retinopathy;
- central retinal artery and retinal vein occlusion;
- quality of life and patient-recorded outcomes in those with ocular disease;
- estimates of the global burden of blindness;
- some cancers affecting the eye;
- ophthalmic registries.

Summary of Performance in 2015

Research Income

The FCOEVR generated \$1,683,609 in research grant income in 2015, according to Flinders University Research Services Office data, and \$2,142,793 according to the Centre's own records. Approximately 65% of our research income is derived from competitive national category one granting bodies, but we are actively seeking to expand our funding base. A detailed list of grants is provided later in this report. Note that we count only grants that are related to our core business of eye and vision: some Centre members have also generated research income in other discipline areas. Our funding for 2015 was less than that reported for 2014. This may in part reflect the impending retirement of one senior Centre member, who has been stepping down her grant applications over the past two-three years, and emphasizes the need for an increase in our critical mass of senior researchers.

Publications

From January 2015 to December 2015, members of the Centre published 56 research articles and letters in peer-reviewed journals. From January 2016 to date, we have already generated 48 publications. High-impact papers include several in *Lancet* (impact factor = 44) and *Nature Genetics* (impact factor = 32), and a paper in *New Engl J Med* (impact factor = 60) that generated widespread media attention internationally. Overall in 2015-6, 20% of our articles were published in journals with impact factors above 5.0, better than our historical average of 12%. However, neither our publication rate nor the percentage of articles in journals with impact factors over 5 has increased over the rate reported for 2014, but has remained static. The Centre membership has not increased materially in size over the past 12-18 months and we may have reached a plateau for publications.

With respect to journal impact factors, we stress that of the 57 journals listed under the discipline area of ophthalmology and optometry in the Journal Citation Index, only two (<4%) - *Prog Ret Eye Res* and *Ophthalmology* - have impact factors over 5, at 9.4 and 6.8 respectively. Centre members have published in both these journals over the past 18 months. However, the majority of articles were published in the ophthalmic and optometric literature, because such articles tend to engender maximum translational impact: in particular, they are read by active clinicians working in the field. Selection of the journal in which our work is to be published is thus a balancing act between traditional impact (preferred by most DVCRs), and translational impact (preferred by bodies such as the NHMRC and community groups).

RHD Outcomes

We increased our PhD continuing student numbers in 2015 compared with 2014 and historical numbers, and have enrolled additional students in 2016. Our current load is 9 students. Three students completed their PhD degrees in 2015: Dave, Irani and Kuot. One student (Javadiyan) has submitted her thesis for examination already in 2016 and another (Kaidonis) is in the final stages of thesis preparation. Our capacity to enrol new students is limited to some extent by the numbers of our senior membership, and by considerations of available space and resources. An additional limitation is the availability of post-graduate scholarships, especially (but not only) for medically-qualified graduates. Members of our Centre are reluctant to take on unfunded PhD students. We note that Ophthalmology, in particular, does not operate on a performance-based funding model, so that no funds accrue from RHD student load or completions.

Invited Conference Presentations

Members presented more than 30 invited plenary presentations over 2015-6.

Fellowships

Justine Smith was elected Fellow of the Australian Academy of Health and Medical Sciences during 2015. Emeritus Professor Doug Coster, AO, is an elected member of the Australian Academy of Science, Technology and Engineering. Centre members include an NHMRC Principal Research Fellow (Williams), an NHMRC Practitioner Fellow (Craig) and an ARC Future Fellow (Smith).

Projected Key Performance Indicators for 2017

- Increase PhD and other research higher degree student load and ensure timely completions;
- Increase the quality of peer-reviewed publications, assessed by impact factor and number of citations;
- Maintain external grant funding;
- Increase number of invited presentations at national and international meetings;
- Further improve research translation into clinical practice;
- Extend collaborations;
- Maintain service to the disciplines of Ophthalmology and Optometry;
- Maintain ERA performance of rank = 5.

Grant and Contract Income - 2015

Total Grant Funding: 2015

	Amount		Total
	Cat 1	Cat 2-4	
RSO Data	\$1,075,044	\$608,565	\$1,683,609
FCOEVR Data*	\$1,388,375	\$754,418	\$2,142,793

* Funding according to the records of FCOEVR, and listed in detail below.

Year	Granting Body	Lead CI*	Amount		2015 Allocation	Notes
			Cat 1	Cat 2-4		
2015-18	NHMRC Project Grant	JL Wilkinson-Berka (JE Smith CI-B)	\$823,372		\$37,000	
2015-19	NHMRC Centre for Research Excellence	A Keech (JE Craig CI-G)	\$2,479,298*			
2015-19	NHMRC Centre for Research Excellence	A Brown (JE Craig CI-H)	\$2,466,326		\$43,750	2016 - \$87,500
2014-17	ARC Future Fellowship	JR Smith	\$989,144		\$248,8356	
2014-16	NHMRC Project Grant	JR Smith	\$445,505		\$153,745	
2014-18	NHMRC Practitioner Fellowship	JE Craig	\$387,298		\$80,194	
2013-17	NHMRC Project Grant	JE Craig	\$956,000		\$144,924	
2013-15	NHMRC Project Grant	KA Williams	\$456,727		\$124,846	
2013-15	National Institute of Health (USA)	JR Smith	US\$1,309,000		A\$46,691	
2013-15	National Institute of Health (USA)	JR Smith	US\$423,500		A\$91,302	
2013-15	NHMRC Project Grant	L Keay (K Pesudovs CI-C)	\$777,262		No income	
2012-16	NHMRC Centre for Research Excellence	D Mackey (K Burdon CI-B, JE Craig CI-D)	\$2,500,000		\$201,431	
2012-15	NHMRC Project Grant	K Pesudovs	\$823,522		\$49,998	
2011-15	NHMRC Senior Fellowship	KA Williams	\$795,074		\$165,659	
2015-16	NHMRC Clinical Research Scholarship	G Kaidonis		\$75,0561	\$37,530	
2013-15	European Society of Cataract and Refractive Surgery	M Lundstrom (K Pesudovs)		\$167,250	No income	
2013-15	Flinders University DVC-R	KA Williams	\$360,000		\$120,000	
2014-16	Australian Organ & Tissue Donation * Transplantation Authority	KA Williams		\$484,746	\$177,866	
2015	Channel 7 Children's Research Fund	J Craig		\$74,800	\$74,800	
2015	FUSA DVC-R Near Miss	J Craig		\$45,000	\$45,000	

Year	Granting Body	Lead CI*	Amount		2015 Allocation	Notes
			Cat 1	Cat 2-4		
2015	Ophthalmic Research Institute	K Burdon		\$50,000	\$50,000	
2015	Ophthalmic Research Institute	S Lie		\$49,000	\$49,000	
2015	FUSA DVC-R Near Miss	JR Smith		\$44,846	\$44,846	
2015	RL Cooper Medical Research Foundation	JR Smith		\$21,676	\$21,676	
2015	FMC Foundation	K Williams		\$38,000	\$38,000	
2015	FMC Foundation	JR Smith		\$17,000	\$17,000	
2015	CSL Eye Antibodies Royalties	KA Williams		\$17,000	\$17,000	
2015	NIH – Texas Christian University	KA Williams		\$16,700	\$16,700	
2015	Perpetual Trustee	KA Williams		\$10,000	\$10,000	
2014-16	Lions Medical Research Foundation Scholarship	T Zhou		\$105,000	\$35,000	

*Allocation to FUSA still being negotiated and not included in total.

The following list of grants has been maintained within the Centre.

2015 Grant Income by Project

2011-2015 NHMRC Principal Research Fellowship #1002044. **KA Williams**. Improving Eye Health. \$795,074 (\$165,659 pa)

2012-2015 NHMRC Project Grant #1031838. **K. Pesudovs**. A system for measurement of vision specific quality of life using item banking and computer adaptive testing (ViSBank). \$823,522 (2015: \$49,998)

2012-2016 NHMRC Centre for Research Excellence #1023911. D. Mackey, **K. Burdon**, A. Hewitt and **J. Craig**. Translation of genetic eye research (TOGER). \$2,500,000 (\$201,431pa)

2013-2015 National Institutes of Health (USA) #EY019875. **JR Smith**. Adhesion molecules in uveitis. US\$1,309,000 (A\$235,184 pa)

2013-2015 National Institute of Health (USA) #EY022009. **JR Smith**. B cell trafficking to the eye. US\$423,500 (A\$46,691 pa)

2013-2015 National Institute of Health & Texas Christian University. N Voelcker, **K Williams**, **D Coster**, **S Klebe**. Nanostructured porous silicon/biopolymer composites as ophthalmic implants. US\$125,926 (A\$16,700 in 2015)

2013-2015 NHMRC Project grant#1048302. L. Keay, L. Meuleners, **K. Pesudovs**, P. McCluskey, S. Boufous, J. Ng, N. Morlet and F. Stapleton. Understanding the impact of cataract vision impairment on risk of falling. \$775,262 (no income)

2013-2015 NHRMC Project Grant #1046634. **KA. Williams**, **HM. Brereton**, **S. Klebe** and **C. Chen**. Anti-vascular endothelial growth factor-B as a biologic for treating eye diseases. \$456,727 (\$124,846 pa)

2013-2017 NHMRC Project grant 1048037. **J. Craig, K. Burdon, R. Casson, J. Landers, S. Graham, P. Healey and A. Agar.** Towards translation of glaucoma blindness genes into clinical practice: predicting Risk Of Glaucoma: Relevant SNPs with Strong Association (PROGRESSA) Study. \$956,020 (\$144,924 pa)

2013-2016, European Society of Cataract and Refractive Surgery. M. Lundstrom and **K. Pesudovs.** Including patient-reported outcome measures in the EUREQUO database. \$167,250 (no income)

2013-2015 CSL Eye Antibodies Royalties. **D Coster, K Williams,** M Thiel, H Zola. \$17,000 (\$5,677 pa)

2013-2015, Flinders University DVCR. **K. Williams.** Flinders Centre for Ophthalmology, Eye & Vision Research. \$360,000 (\$120,000 pa)

2014-2018 NHMRC Practitioner Fellowship #1065433 **JE. Craig.** Disease Registry based approaches to determining molecular risk factors for glaucoma blindness, and applying them in clinical practice. \$387,298 (\$80,194 pa)

2014-2016 NHMRC Project Grant #1066235 **JR. Smith.** Toxoplasma gondii infection of human retinal pigment epithelium. \$445,505 (\$153,745pa)

2014-2017 Australian Research Council (ARC Future Fellowship). **JR Smith.** Molecular activities of retinal endothelial cells, retinal disease processes, biological therapies to address efficacy and safety deficiencies of current treatments. \$989,144 (\$248,835 pa)

2014-2016 Australian Organ and Tissue Donation and Transplantation Authority. **K. Williams.** Australian Corneal Graft Registry. \$484,786 (\$177,866 pa)

2014-2016 Lions Medical Research Foundation Scholarship. **T Zhou.** \$105,000 (\$35,000 pa)

2015-2018 NHMRC Project Grant #1078442. JL Wilkinson-Berka, **JR Smith,** HH Schmidt, **B Appukuttan.** Inhibition of specific NOX isoforms as a new treatment for hypertensive and diabetic retinopathy. \$823,372 (\$37,000 pa)

2015-2019 NHMRC Centre for Research Excellence. A Keech, A Jenkins, T Henderson, A Brown, S-E Bursell, L Brazionis, **JE Craig,** L Maple-Brown, K O'Dea, V GebSKI. Diabetic Retinopathy - Closing the Loop for Diabetic Eye Care and Complication Risk Mitigation. \$2,479,298*

2015-2019 NHMRC Centre for Research Excellence. A Brown, P Zimmet, E Willerslev, M Cooper, L Maple-Brown, J Shaw, N Brown, **JE Craig,** M Daniel. Predicting Renal, Ophthalmic, and Heart Events in the Aboriginal Community – The PROPHECY Study. \$2,466,326 (FUSA – 2015 - \$43,750, 2016 - \$87,500, 2017 - \$87,500, 2018 - \$43,750)

2015-2016 NHMRC Clinical Research Scholarship. **JE Craig, G Kaidonis, KP Burdon.** Epidemiological and molecular risk factors for diabetic retinopathy blindness. \$75,061.40 (\$37,530.70 pa)

2015 Perpetual Trustee Company Ltd. **K Williams, S Klebe**. Improving the quality of human donor corneas for corneal transplantation. \$10,000

2015 Channel 7 CRF. **JE Craig, A Dubowsky, KP Burdon, ME Souzeau, M Awadalla, O Siggs**. Improving genetic diagnosis and reproductive options for families with congenital, and developmental glaucoma. \$74,800

2015 Flinders University DVC-R NHMRC near miss grant. **JE Craig, KP Burdon, S Macgregor, S John, A Hewitt**. Identifying high penetrance deleterious mutations in blinding glaucoma. \$45,000

2015 Ophthalmic Research Institute of Australia (ORIA). **KP Burdon, S Sharma**. Development of detailed gene expression profiles for ocular tissues: The Eye Expression Atlas Project. \$50,000

2015 Ophthalmic Research Institute of Australia (ORIA). **S Lie**. Defence mechanisms of specialized cells within the eye during parasite infection. \$49,000

2015 Flinders University DVC-R NHMRC Near-Miss Award. **JR Smith**. Interactions between monocytes and endothelial cells in human retina. \$44,846

2015 Rebecca L. Cooper Medical Research Foundation. **JR Smith**. Entry Route of Toxoplasma into Human Retina. \$21,676

2015 Flinders Medical Centre Foundation Grant. **K Williams**. Improving the quality of human donor corneas for corneal transplantation. \$38,000

2015 Flinders Medical Centre Foundation Grant. **JR Smith**. Retinal arterial and venous endothelial involvement in posterior uveitis. \$17,000

* Allocation to FUSA still being negotiated and not included in total.

2016 Grant Income by Project (grants commencing 2016)

2016-2018 NHMRC Project Grant #1107098. **JE Craig, KP Burdon, S Macgregor, A Hewitt, S John, O Siggs**. High penetrance deleterious mutations in blinding glaucoma. \$1,345,055 (\$448,352 pa)

2016-NHMRC Project Grant # APP1104700 . **KP Burdon, J Charlesworth, P Baird, R Mills, S Sharma**. Gene identification for keratoconus – a blinding eye disease. \$912,88.30 (FUSA 2016: \$36,000.00, 2017: \$58,000.00, 2018: \$32,000.00)

2016-2018 Australian Organ and Tissue Donation and Transplantation Authority. **K. Williams**. Australian Corneal Graft Registry. \$503,156 (\$251,578 pa)

2016, Flinders University DVCR. **K. Williams**. Flinders Centre for Ophthalmology, Eye & Vision Research. \$100,000

2016 Flinders University FMNHS Equipment Grant. T Chataway, D Matusica, B Forbes, R Haberberger, D Keating, J Petersen, E Sokoya, **J Smith, B Lewis**. LICOR Odyssey ® CLx

Infrared Imaging System for a range of proteomics applications. \$20,000.

2016 Flinders University FMNHS Infrastructure Grant. R Haberberger, D Dixon, D Hussey, **J Smith**, V Zagorodnyuk. Salary for an experienced technical assistant to provide histology-related services within Flinders Microscopy core facility. \$25,000

2016 Flinders University FMNHS Seeding Grant. **J Craig, O Siggs, E Souzeau**. Identifying genetic causes of primary congenital glaucoma. \$18,000

2016 Flinders University FMNHS Seeding Grant. **J Khadka, K Pesudovs**, M Goggin, J Ratcliffe. The prioritisation of people on cataract surgery waiting lists. \$18,000

2016 Flinders University FMNHS Top Up Grant. **J Smith**. Toxoplasma gondii infection of human retinal pigment. \$20,000

2016 FMC Foundation Seeding Grant. **B Appukuttan**, B Wilmot, M Jager. Vasculogenic mimicry and treatment resistant aggressive ocular melanoma: can we stop tumour growth using unique cell proliferation inhibitors. \$18,000

2016 FMC Foundation Seeding Grant: Early Career Researcher. **M Awadalla**. Investigating the genetic basis for Angle Closure Glaucoma. \$17,000

Research Publications

Year	Peer-reviewed articles	Books/chapters	Letters/editorials/other	Total
2014	54	0	9	63
2015	50	0	6	56
2016*	44 to August	4		48 to date

* to date, including those in press

Publications 2015-16

Refereed journal article/letters, 2015 calendar year

- 1 Causes of Severe Visual Impairment and Blindness: Comparative Data From Bhutanese and Laotian Schools for the Blind. Farmer LD, Ng SK, Rudkin A, **Craig J**, Wangmo D, Tsang H, Southisombath K, Griffiths A, Muecke J. *Asia Pac J Ophthalmol (Phila)*. 2015 Nov-Dec;4(6):350-6. doi: 10.1097/APO.0000000000000152. PMID: 26716431
- 2 Multiple cranial nerve involvement with idiopathic intracranial hypertension. González-Andrades M, García-Serrano JL, González Gallardo Mdel C, **McAlinden C**. *QJM*. 2016 Apr;109(4):265-6. doi: 10.1093/qjmed/hcv217. Epub 2015 Dec 28. PMID: 26715766
- 3 Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: quantifying the epidemiological transition. GBD 2013 DALYs and HALE Collaborators, Murray CJ, Barber RM, Foreman KJ, Abbasoglu Ozgoren A, Abd-Allah F, Abera SF, Aboyans V, Abraham JP, Abubakar I, Abu-Raddad LJ, Abu-Rmeileh NM, Achoki T, Ackerman IN, Ademi Z, Adou AK, Adsuar JC, Afshin A, Agardh EE, Alam SS, Alasfoor D, Albittar MI, Alegretti MA, Alemu ZA, Alfonso-Cristancho R, Alhabib S, Ali R, Alla F, Allebeck P, Almazroa MA, Alsharif U, Alvarez E, Alvis-Guzman N, Amare AT, Ameh EA, Amini H, Ammar W, Anderson HR, Anderson BO, Antonio CA, Anwari P, Arnlöv J, Arsic Arsenijevic VS, Artaman A, Asghar RJ, Assadi R, Atkins LS, Avila MA, Awuah B, Bachman VF, Badawi A, Bahit MC, Balakrishnan K, Banerjee A, Barker-Collo SL, Barquera S, Barregard L, Barrero LH, Basu A, Basu S, Basulaiman MO, Beardsley J, Bedi N, Beghi E, Bekele T, Bell ML, Benjet C, Bennett DA, Bensenor IM, Benzian H, Bernabé E, Bertozzi-Villa A, Beyene TJ, Bhala N, Bhalla A, Bhutta ZA, Bienhoff K, Bikbov B, Biryukov S, Blore JD, Blosser CD, Blyth FM, Bohensky MA, Bolliger IW, Bora Başara B, Bornstein NM, Bose D, Boufous S, Bourne RR, Boyers LN, Brainin M, Brayne CE, Brazinova A, Breitborde NJ, Brenner H, Briggs AD, Brooks PM, Brown JC, Brugha TS, Buchbinder R, Buckle GC, Budke CM, Bulchis A, Bulloch AG, Campos-Nonato IR, Carabin H, Carapetis JR, Cárdenas R, Carpenter DO, Caso V, Castañeda-Orjuela CA, Castro RE, Catalá-López F, Cavalleri F, Çavlin A, Chadha VK, Chang JC, Charlson FJ, Chen H, Chen W, Chiang PP, Chimed-Ochir O, Chowdhury R, Christensen H, Christophi CA, Cirillo M, Coates MM, Coffeng LE, Coggeshall MS, Colistro V,

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Books/Book Chapters 2016

1. Azathioprine. **Smith JR**. In: M Zierhut, C Pavesio, S Ohno, F Orefice, NA Rao (eds). Intraocular Inflammation. Berlin: Springer 2016; 309-314.
2. Thromboangiitis obliterans. **Smith JR**, Zierhut M. In: M Zierhut, C Pavesio, S Ohno, F Orefice, NA Rao (eds). Intraocular Inflammation. Berlin: Springer 2016; 773-776.
3. Novel approaches to the treatment of non-infectious uveitis. **Smith JR**. In: Lin, Suhler (eds). Treatment of Uveitis. Springer (in press).
4. The Optometrist's Practitioner-Patient Manual. **AJ Phillips**. Butterworth-Heinemann ISBN: 9780750675390

Conference Presentations, 2015-6

Dr Mona Awadalla

Presentations at international and national meetings

- 2015 AMSR 2015, Adelaide; oral presentation "Candidate gene analyses and normal tension glaucoma"
- 2016 ANZGIG, New Zealand; oral presentation titled "DNA methylation at the 9p21 glaucoma susceptibility locus is associated with normal-tension glaucoma".
- 2016 Chaired an oral session for clinical research at ASMR Adelaide 2016.

Associate Professor Celia Chen

Invited presentations

- 2015 Tasmanian RANZCO State Branch meeting and Evidence Based Ophthalmology Workshop. 1. Practicality of randomized controlled trial 2. Evidence of visual field therapy.
- 2015 Australian College of Optometry. Optic neuritis - when to refer and what to look out for Dangerous diplopia.
- 2015 Asian Pacific Academy of Ophthalmology. Neuro-Ophthalmology symposium - Neuro-ophthalmology emergencies - Central retinal artery occlusion. Neuro-Ophthalmology Symposium - Challenging cases - Calcium and a grave digger Neuro-Ophthalmology Symposium - Common diagnosis in Neuro-ophthalmology.
- 2015 Taiwan Academy of Ophthalmology Annual Scientific Meeting. NTUH International Convention Center, Taipei, Taiwan. Diplopia : a practical approach Dangerous diplopia Case presentation – Neuromyotonia.
- 2015 Neuro-Ophthalmology Society of Australia and Neurovision. Disorders of the eyelid.

Dr Paul Constable

Conference Presentations

- 2015 53rd ISCEV Ljubljana, Slovenia. Constable, P.A., Gaigg, S., Bowler, D. and Thompson, D. Genetic associations to the ERG in autism spectrum disorder.
- 2016 12th Asia Pacific Conference on Vision. Perth. Constable, P.A., Ring, M., Gaigg, S. and Bowler, D. Concept, Creativity and Complexity in Autism Spectrum Disorders: A Study using the Vygotsky Blocks.
- 2016 15th World Congress. IASSIDD. Melbourne. Carey, G.J, Parker, S., Constable, P.A., Sprick, C. and. Virtual simulation to reduce anxiety in Autism Spectrum Disorder.

Professor Jamie Craig

Invited talks: International and national meetings and organisations

- 2015 6th World Glaucoma Congress June 2015.
Glaucoma endophenotypes IOP and disc. (Invited speaker)
Update on new glaucoma genetics (Chair)
- 2015 Tasmanian RANZCO State Branch meeting and Evidence Based Ophthalmology Workshop, June 2015
The prophylaxis of endophthalmitis.
The role of OCT in glaucoma

Presentations at international and national meetings

- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. JE Craig, KP Burdon, T Zhou, O Siggs, AW Hewitt, DA Mackey, P Gharahkhani, G Cuellar, S MacGregor. Genome-wide approach to

- detecting copy number variation in open angle glaucoma blindness utilizing the Australian and New Zealand Registry of Advanced Glaucoma. (poster)
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. AW Hewitt, T Johnston, PJ Allen, JE Craig, DA Mackey, J Wang, P Mitchell, A Chandra. Investigation of common genetic variants implicated in rhegmatogenous retinal detachment (poster).
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. AJ White, U Pattamatta, Z McPherson, PR Healey, A Agar, JE Craig. Modulation of clinically significant genetic loci for glaucoma in a murine retinal explant model. (poster)
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. KP Burdon, Y Lu, PN Baird, RA Mills, Y Bykhovskaya, S Sahebjada, YS Rabinowitz, X Li, S MacGregor, JE Craig. Genetic variation at the GPC6 gene is reproducibly associated with keratoconus in a genome-wide association study. (poster)
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. OM Siggs, S Javadiyan, S Sharma, KP Burdon, JE Craig. Partial duplication of CRYBB1 as a novel genetic mechanism for autosomal dominant congenital cataract. (poster)
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. JC Bailey, P Gharakhani, LR Pasquale, JH Kang, JE Craig, S MacGregor, KP Burdon, JL Haines, JL Wiggs. Sex-specific primary open-angle glaucoma loci identified in a meta-analyzed genome-wide imputed dataset. (poster)
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. L Zheng, A Kifley, J Want, AJ White, KP Burdon, JE Craig, S MacGregor, P Mitchel, PR Healey. Genetic susceptibility to open angle glaucoma: the Blue Mountains Eye Study. (poster)
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. JJ Khong, L Wang, G Smyth, AA McNab, T Hardy, D Selva, S Sharma, KP Burdon, E Peter, JE Craig. Gene expression profiling of orbital adipose tissue in thyroid orbitopathy. (poster)

Dr Miriam Keane

Presentations at international and national meetings

- 2015 The 32nd Annual Australia and New Zealand Cornea Society Meeting, March. Outcomes of endokeratoplasty after failed penetrating keratoplasty.

Dr Jyoti Khadka

Presentations at international and national meetings

- 2015 The 15th International Congress of Ophthalmology and Optometry Chin, Shanghai, China. Khadka J, Pesudovs K. Quality of life study in Ophthalmology and Optometry: Present status and the future expectation. (Invited talk)

Dr John Landers

Presentations at international and national meetings

- 2015 Tasmanian RANZCO State Branch Meeting and Evidence-Based Ophthalmology Workshop, June 2015. Tube vs trabeculectomy.

Dr Shervi Lie

- 2015 Association for Research in Vision and Ophthalmology Annual Meeting Denver, USA 2015. S Lie, LM Ashander, B Appukuttan, JR Smith. Expression of angiogenic regulators by human retinal cells infected with *Toxoplasma gondii*: understanding the clinical course of ocular toxoplasmosis. (Poster presentation; Young Investigator Award)

Associate Professor Richard Mills

Chaired meetings

- 2015 Tasmanian RANZCO State Branch meeting and Evidence Based Ophthalmology Workshop, June 2015. Chair - Hot topics in evidence-based Ophthalmology. The Ebola outbreak in West Africa: an intensivist on the frontline.

Invited talks: International and national meetings

- 2015 The 32nd Annual Australia and New Zealand Cornea Society Meeting, March
Ocular surface squamous neoplasia – is surgery necessary?
2015 Tasmanian RANZCO State Branch meeting and Evidence Based Ophthalmology Workshop, June 2015. Collagen cross-linking (CCL).

Professor Konrad Pesudovs

Invited presentations

- 2015 World Glaucoma Congress, Hong Kong. The inclusion of quality of life measures in glaucoma datasets.
2015 World Glaucoma Congress, Hong Kong. How to measure QoL and PROMs for cost-effectiveness studies?
2015 European Society of Cataract and Refractive Surgeons in Barcelona, Spain. How to assess dysphotopsia from the patients' perspective.
2015 PROM Seminar 4 Disease specific questionnaire, Stockholm. Item-banking, third generation questionnaire.
2016 ICHOM Conference, London. Developing PROMs to have more impact.

Conference presentations

- 2015 European Society of Cataract and Refractive Surgery Conference. Barcelona, Spain. Pesudovs K, Khadka J, Fenwick E, Lamoureux E. An update of the Eye-tem Bank project: a novel comprehensive quality of life measurement system.
2015 American Academy of Optometry. New Orleans, Colorado, USA. Pesudovs K, Khadka J, Fenwick EK, Lamoureux EL. Psychometric assessment of the glaucoma module of the Eye-tem Bank project. (poster)
2015 Invest Ophthalmol Vis Sci 55: ARVO E-Abstract 1367. Denver, Colorado, ARVO. Pesudovs K, Khadka J, Fenwick EK, Lamoureux EL. Item banking enables stand-alone measurement of driving ability from an activity limitations item set. (poster)
2015 Invest Ophthalmol Vis Sci 55: ARVO E-Abstract 2071. Denver, Colorado, sponsored by ARVO. Figueiredo F, Lako M, Bayliss O, Pesudovs K, Figueiredo G. Patient reported outcomes before and following ex vivo cultured autologous limbal stem cell transplantation for total unilateral limbal stem cell deficiency.
2015 The Association of Research in Vision and Ophthalmology; Denver, USA. Pesudovs K, Khadka J, Fenwick EK, Lamoureux EL. Item banking enables stand-alone measurement of driving ability from an activity limitation item set.
2015 Evidence-Based Optometry Conference, Adelaide. Welcome and Overview of Evidence-Based Practice.
2015 Evidence-Based Optometry Conference, Adelaide. How to read and appraise a paper.

- 2015 PROM Seminar 4 Disease Specific, Stockholm. Comment on: Creating and using disease specific PROM in Quality Registries. .
- 2016 University of Houston College of Optometry. Electronic delivery of teaching – lecture replacement.

Dr Shiwani Sharma

Conference presentations

- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA. JJ Kong, L Wang, G Smyth, AL McNab, T Hardy, D Selva, S Sharma, KP Burdon, E Peter, JE Craig. Gene expression profiling of orbital adipose tissue in thyroid orbitopathy. (poster)

Professor Justine Smith

Invited presentations

- 2015 - Singapore National Eye Centre – 25th Anniversary International Meeting. Singapore. 2015. Biologics and other developments for uveitis.
- 2015 International Meeting. Munich, Germany. Blocking mediators of inflammatory pathways. “Next Generation Thinking and Therapy for Inflammatory Eye Disease”
- 2015 International Ocular Inflammation Society Congress. San Francisco, CA, USA. September 2015. President’s Symposium Talk. Future treatments for non-infectious posterior uveitis.
- 2015 Indo-China Uveitis Meeting. Yangon, Myanmar. November 2015. Biological agents in treatment of non-infectious uveitis.
- 2015 19th Congress of the Chinese Ophthalmological Society. Xi’an, China. 2014. Translational studies of toxoplasma retinochoroiditis.
- 2015 27th Annual Registrars Conference and Teaching Course. Sydney, Australia. Toxoplasmosis.
- 2015 27th Annual Registrars Conference and Teaching Course. Sydney, Australia. Biologics and New Advances. Named lecture.
- 2015 27th Annual Registrars Conference and Teaching Course. Sydney, Australia. Masquerade syndromes – Autoimmune retinopathy.
- 2015 7th Chinese Congress of Research in Vision and Ophthalmology. Shenyang, China. August 2015. Impact of Toxoplasma gondii infection on human retinal cells.
- 2015 7th Chinese Congress of Research in Vision and Ophthalmology. Shenyang, China. August 2015. Basic mechanisms of human posterior uveitis.
- 2015 27th Annual Registrars Conference and Teaching Course. Sydney, Australia. 2015. Toxoplasmosis.
- 2015 27th Annual Registrars Conference and Teaching Course. 2015. Sydney, Australia. Masquerade syndromes – Autoimmune retinopathy.
- 2015 7th Chinese Congress of Research in Vision and Ophthalmology. 2015. Shenyang, China. Impact of Toxoplasma gondii infection on human retinal cells.
- 2016 General Assembly of Academia Ophthalmologica Internationalis. Guadalajara, Mexico. 2016. Inaugural lecture to Academia Ophthalmologica Internationalis: Basic Mechanisms of Ocular Toxoplasmosis.
- 2016 Association for Research in Vision and Ophthalmology Annual Meeting (Sunday Symposium). Seattle, USA. Update on mechanisms of human ocular toxoplasmosis.

Other Presentations

- 2015 ASIA-ARVO. Yokohama, Japan. L Ashander, B Appukuttan, Y Ma, D Gardner-Stephen, J Smith. Transcription factor expression by human retinal endothelial cells

- in response to tumor necrosis factor (TNF)- α and interleukin (IL)-1 β .
- 2015 Association for Research in Vision and Ophthalmology Annual Meeting. Denver, CO, USA. S Lie, LM Ashander, B Appukuttan, JR Smith. Expression of angiogenic regulators by human retinal cells infected with *Toxoplasma gondii*: understanding the clinical course of ocular toxoplasmosis.
- 2015 Australian Society for Medical Research Annual Meeting. Adelaide, Australia. S Lie S, LM Ashander, JR Smith. Infection with *Toxoplasma gondii* induces proliferation of retinal pigment epithelial cells: an explanation for the characteristic clinical appearance.
- 2015 4th Meeting of the Australian Network of Cardiac and Vascular Developmental Biologists. Adelaide, Australia. AJ Stempel, B Appukuttan, Y Ma, LM Ashander, D Deliyanti, JL Wilkinson-Berka, JR Smith. Inhibition of NADPH oxidase catalytic unit (NOX) 4 in human retinal endothelial cells attenuates the production of reactive oxygen species (ROS) during hypoxia.
- 2016 Association for Research in Vision and Ophthalmology Annual Meeting. Seattle, WA, USA. PE Snow, EJ Lee, JM Furtado, B Brown, E Vance, J Dugan, P Silver, JR Smith, RR Caspi, HL Rosenweig. Nod2 controls susceptibility to autoimmune uveitis through control of a Th17-driven response.

Dr Deepa Taranath

Presentations at national meetings

- 2015 Tasmanian RANZCO State Branch meeting and Evidence Based Ophthalmology Workshop. Atropine and orthokeratology for paediatric myopia.

Professor Keryn Williams

Invited presentations

- 2015 30th Asia-Pacific Academy of Ophthalmology Congress, Guangzhou, China
Gene therapy in corneal and limbal stem cell transplantation
- 2015 Global Alliance of Eye Bank Associations Scientific Meeting, San Diego, USA
The Australian Corneal Graft Registry
- 2015 World Cornea Congress VII, San Diego, USA
Corneal Graft Registries: benefits and risks
- 2015 32nd Annual Cornea Society and Eye Bank Meeting, Perth
Report from the Australian Corneal Graft Registry
To whom should outcome registries report?
- 2015 Registries Heads Meeting, Organ Transplantation Authority (DonateLife)
Update: the Australian Corneal Graft Registry
- 2015 Big Data: SAHMRI Scientific Symposium 2015
The Australian Corneal Graft Registry - big and complex enough!

Other presentations

- 2015 Registries Heads Meeting, Organ Transplantation Authority (DonateLife)
Update: the Australian Corneal Graft Registry
- 2015 RANZCO Tasmanian Branch Meeting
Lamellar and penetrating keratoplasty outcomes: a Registry study

Presentations/Posters by student members and research assistants

- 2015 32nd Australia and New Zealand Cornea Society Meeting, Perth, 4th-7th March **Y Irani**, P Scotney, A Nash, **S Klebe**, **KA Williams**. Anti-VEGF-B therapy in a rat model of corneal neovascularization.

- 2015 ARVO Annual Meeting, Denver, Colorado, 3rd-7th May. **Y Irani**, P Scotney, A Nash, **S Klebe**, **KA Williams**. Anti-VEGF-B therapy in a rat model of corneal neovascularization
Y Irani won a young investigator travel award; selected platform presentation
- 2015 ASIA-ARVO. Yokohama, Japan. **L Ashander**, **B Appukuttan**, **Y Ma**, D Gardner-Stephen, **J Smith**. Transcription factor expression by human retinal endothelial cells in response to tumor necrosis factor (TNF)- α and interleukin (IL)-1 β .
- 2015 Australian Network of Cardiac and Vascular Developmental Biologists (ANCVDB) Annual Meeting, Adelaide, South Australia, 3-4 December **AJ Stempel**, **LM Ashander**, **Y Ma**, D Deliyanti, JL Wilkinson-Berka, **B Appukuttan**, **JR Smith**. Inhibition of NADPH oxidase catalytic unit (NOX)4 in human retinal endothelial cells attenuates the production of reactive oxygen species (ROS) during hypoxia.
- 2015 Australian Society for Medical Research (ASMR), South Australia Annual Scientific Meeting, Adelaide, South Australia, 3 June. **AJ Stempel**, **LM Ashander**, RM Stathis, **Y Ma**, **B Appukuttan**, **JR Smith**. Supervillin Expression in Human Retinal Endothelial Cells is Regulated by Nuclear Factor of Kappa Light Polypeptide Gene Enhancer in B-Cells 1 (NFkB1).
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. **G Kaidonis**, **KP Burdon**, MC Gillies, RW Essex, JH Chang, B Pal, M Daniell, N Petrovsky, AW Hewitt, **JE Craig**. Common sequence variation in the VEGFC gene is associated with diabetic retinopathy and diabetic macular edema in Caucasian patients. (poster)
- 2015 The Association for Research in Vision and Ophthalmology Annual Meeting, Denver, Colorado, USA, May 3-7. **OM Siggs**, **S Javadiyan**, **S Sharma**, **KP Burdon**, **JE Craig**. Partial duplication of CRYBB1 as a novel genetic mechanism for autosomal dominant congenital cataract. (Poster presentation)
- 2015 The Australian Society for Medical Research, SA Scientific Meeting, Adelaide (Poster) **Y Irani**, Pierre Scotney, A Nash, **S Klebe**, **KA Williams**. 2015. Anti-VEGF-B therapy in a rat model of corneal neovascularization.
- 2015 Royal Australian & New Zealand College of Ophthalmologists (RANZCO) Annual Scientific Congress, Wellington, New Zealand, 2 November 2015. **E Souzeau**. Glaucoma phenotypic spectrum in patients with PITX2 and FOXC1 mutations includes primary open angle glaucoma and primary congenital glaucoma.
- 2015 Royal Australian & New Zealand College of Ophthalmologists (RANZCO) Annual Scientific Congress, Wellington, New Zealand, 2 November. **G Kaidonis**, M Hassall, **K Burdon**, H Newland, T Henderson, **J Craig**, **S Lake**. A 5 year audit of vitreoretinal surgery for diabetic retinopathy in South Australia and Northern Territory.
- 2015 Royal Australian & New Zealand College of Ophthalmologists (RANZCO) Annual Scientific Congress, Symposium: Translating Genetic Eye Research, whole exome sequencing and return of results to patients, Wellington, New Zealand, 1 November 2015 **E Souzeau**. Whole exome sequencing and return of results to patients.
- 2015 American Society of Human Genetics (ASHG) Annual Meeting, Baltimore, MD, USA, 7 October 2015 (Poster) **E Souzeau**, **O Siggs**, **B Ridge**, L Mauri, M Hayes, A Dubowsky, F P, **J Craig**. FOXC1 mutations and copy number variation in Primary Congenital Glaucoma.
- 2015 ASMR-SA Scientific Meeting. Adelaide June (Poster) **H Kandel**, **K Pesudovs**. A pair of glasses alone does not solve the problems – exploring experiences of people with refractive error.
- 2015 The Australian Society for Medical Research SA Scientific Meeting, Adelaide. June

- (Poster). **M Prem Senthil, J Khadka, K Pesudovs**. Quality of life impact in people with hereditary retinal diseases and acquired retinal disease.
- 2015 The Australian Society for Medical Research SA Scientific Meeting, Adelaide. (Poster). **M Prem Senthil, J Khadka, K Pesudovs**. Seeing through their eyes: lived experiences of people with retinal diseases.
- 2016 The Australian Society for Medical Research SA Scientific Meeting, Adelaide. **Y Irani, P Scotney, A Nash, S Klebe, KA. Williams**. Anti-VEGF-B therapy in a rat model of corneal neovascularization.
- 2016 International Society for Stem Cell Research, San Francisco, USA (poster) **Y Irani, S Klebe, S JP McInnes, M Jasieniak, NH Voelcker, KA Williams**. Oral mucosal epithelial cells grown on porous silicon membranes: A model stem cell niche for ocular surface repair in the rat.
- 2016 The Association for Research in Vision and Ophthalmology Annual Meeting. Seattle, USA. **G Kaidonis, M Hassall, K Burdon, H Newland, T Henderson, J Craig, S Lake**. Are Indigenous Australians more likely to require vitrectomy for end-stage diabetic retinopathy? : A 5 year audit of vitreoretinal surgery for diabetic retinopathy.
- 2016 Allergan National Meeting, Sydney. **E Liu**. Case Study: Steroids and Inflammation – the management of diabetic macula edema.
- 2016 Not by Sight Alone Low Vision Group, Mount Barker, Australia (public talk). **Y Irani**. Vision Research at Flinders University Department of Ophthalmology.

Awards, Prizes, Esteem Factors

Professor Justine Smith delivered the President's Symposium Talk at the 2015 International Ocular Inflammation Society Congress, and presented the 2015 Inaugural Lecture in the new Flinders Investigators' Public Lecture Series. Research published in *New Engl J Med* in May 2015 on Ebola uveitis was the subject of a plenary presentation at ARVO in Denver, Colorado in the same month.

- 2015 Save Sight Institute Lecture, 27th Annual Registrars Conference & Teaching Course
- 2015 Association for Research in Vision & Ophthalmology, Distinguished Service Award
- 2015 American Academy of Ophthalmology, Senior Achievement Award
- 2015 Inaugural Lecture, Flinders Investigators Public Lecture Series
- 2015 Academia Ophthalmologica Internationalis (Chair XIII)
- 2015 President's Symposium Talk, International Ocular Inflammation Society Congress
- 2015 Occasional Graduation Ceremony Address. Flinders University: Faculties of Medicine, Nursing & Health Sciences and Social & Behavioural Sciences
- 2015 Elected Fellow, Australian Academy of Health & Medical Sciences (AAHMS)
- 2016 Eddie Donaldson Medal & Memorial Lecture, Sydney Eye Hospital Alumni Association 11th Biennial Meeting
- 2015- President, American Uveitis Society
- 2015 Elected Fellow, Australian Academy of Health and Medical Sciences
- 2016- Executive Vice President, ARVO
- 2016 Elected Member, Academia Ophthalmologica Internationalis

Professor Jamie Craig co-authored two manuscripts, one as senior author, published in the high-ranking journal *Nature Genetics* (impact factor = 31.6) in 2015, and a further two in 2016. He presented two plenary talks by invitation at the 2015 International Glaucoma Congress, and two at the Tasmanian RANZCO branch meeting in 2015. He continues to establish many productive national and international collaborations, as evidenced by his publication record. His work received substantial media attention in 2015.

- 2015 Gerard Crock Lecturer, Centre for Eye Research Australia, University of Melbourne
- 2016 Member, ORIA Research Advisory Committee

Associate Professor Richard Mills, as Medical Director of the Eye Bank of SA, regularly provides presentations to Lions Clubs as part of the Eye Bank's programme of community outreach. He also chairs the Centre's weekly internal seminar programme.

- 2015 Platform presentation, 32nd Annual ANZ Cornea Society Meeting, Perth

Professor Konrad Pesudovs is currently a member of a number of international committees including the The Global Burden of Diseases, Injuries, and Risk Factors Study 2008, Vision and Hearing Loss Expert Group, the Swedish National Cataract Register Steering Group and the International Consortium for Health Outcomes Measurement (ICHOM) Ophthalmology Group.

- 2015 Elected Chairman of the Board, National Vision Research Institute
- 2016 ARVO Silver Fellow
- 2016 President, Australian College of Optometry

Professor Keryn Williams continued to serve as a member of the Charles and Sylvia Viertel Medical Advisory Board in 2015, and served on NHMRC Project Grant Review Panels in 2015 and 2016. In May 2015, the Australian Corneal Graft Registry celebrated its 30th birthday. Since its inception in 1985, over 32,000 records of corneal transplantation from across the country have been registered by over 750 ophthalmic surgeons.

- 2015 DVCR's Scientist of the Year (shared with Colin Raston)
- 2015 Elected Senior Principal Research Fellow (Honorary) at SAHMRI
- 2015 Invited platform presentation, Asia-Pacific Academy of Ophthalmology Congress, Guangzhou
- 2015 Invited platform presentation, 32nd Annual ANZ Cornea Society Meeting, Perth
- 2015 Invited plenary presentation, Global Alliance of Eye Bank Associations, California
- 2015 Invited plenary presentation, World Cornea Congress VII, San Diego
- 2015 Local Organising Committee, Evidence-Based Ophthalmology Workshop in conjunction with the Tasmanian RANZCO Branch Meeting, Hobart
- 2016 Doug Coster Lecturer, 33rd ANZ Cornea & Eye Bank Meeting, Melbourne

Emeritus Professor Doug Coster will present the Gerard Crock Lecture for 2016 in Melbourne in October 2016.

Mr Tony Phillips was given the Global Speciality Lens Symposium - Lifetime Achievement Award for Contact Lens Education in 2016.

Student members and Early-Career Researchers

- 2015 Flinders University Best Research Higher Degree Student Publication – **G Kaidonis**
- 2016 Cole Eye Institute Imaging Summit Fellows Scholarship – **G Kaidonis**
- 2015 RANZCO Best Paper Presentation – **T Zhou**
- 2016 Flinders International Conference Travel Grant – **T Zhou**
- 2015 Association for Research in Vision and Ophthalmology Young Investigator Travel Grant – **Y Irani**
- 2015 Flinders University FMNHS Student Conference Travel Fund – **Y Irani**
- 2016 International Summer School on Technology Transfer in Life Sciences, Dresden – **Y Irani**
- 2016 Flinders University - All Staff Opportunity Scheme – **E Souzeau**
- 2015 Dr Raniyah Ramada Foundation Young Investigator Award in Microbiology (2nd place) The Association for Research in Vision and Ophthalmology Annual Meeting – **S Lie**
- 2016 Falling Walls Lab Competition – Finalist – **S Lie**
- 2015 Vice-Chancellor's Prize for Doctoral Thesis Excellence – **A Dave**
- 2016 Fresh Science 2016 Finalist – **M Awadalla**

Research Higher Degree Students

2015	<i>Completions</i>	Alpana Dave, PhD Yazad Irani, PhD Abraham Kuot, PhD
	<i>Load PhD students</i>	Sharhbanou Javadiyan Georgia Kaidonis Tiger Zhou Mallika Prem Sathil Andrew Stempel Himal Kandel
2016	<i>Load PhD students</i>	Sharhbanou Javadiyan (thesis under examination) Georgia Kaidonis Tiger Zhou Mallika Prem Sathil Sheela Kumaran Andrew Stempel Himal Kandel Ebony Liu Emmanuelle Souzeau (PhD by published work)

In addition, Dr Stewart Lake has enrolled in a PhD through the FSE in 2016.

Centre Membership, 2015-6

Professor Keryn Williams (Director, to late 2016)

Professor Jamie Craig (Incoming Director, from late 2016)

Senior members

Professor Konrad Pesudovs

Professor Justine Smith

A/Professor Richard Mills (part-time)

Dr Binoy Appukuttan (part-time)

Dr Paul Badenoch

Associate Professor Celia Chen (part-time)

Dr John Landers (part-time)

Dr Yuefang Ma

Dr Shiwani Sharma

A/Professor Rod Watkins

Mid-career members

Dr Paul Constable

Dr Miriam Keane

Dr Jyoti Khadka

Early-career members

Dr Mona Awadalla (maternity leave from June 2015)

Dr Shervi Lie

Dr Owen Siggs (part-time; GEMP student)

Dr Veronika Bandara (to Feb 2015)

Mr Jose Estevez Bordon (from Dec 2015)

Dr Farshad Abedi (from Feb 2016)

Student members

Dr Alpana Dave (PhD awarded April 2015)

Dr Jude Fitzgerald

Dr Yazad Irani (PhD awarded June 2015)

Ms Sharhbanou (Shari) Javadiyan

Dr Georgia Kaidonis

Mr Himal Kandel

Dr Abraham Kuot (PhD awarded August 2015)

Dr Mallika Prem Sathil

Ms Emmanuelle Souzeau

Mr Andrew Stempel

Dr Tiger Zhou

Ms Sheela Evangeline Kumaran (from 2016)

Dr Stewart Lake (from 2016)

Dr Ebony Liu (from 2016)

Research Assistants

Ms Susan Aldhous

Mr Liam Ashander

Ms Nora Coffey (from July 2016, part-time)

Ms Ashleigh Hocking (to April 2015)

Ms Sarah Martin (to February 2015)

Ms Lauren Mortimer (maternity leave from May 2015)

Ms Emily Pulford (June-Dec 2015, part-time)

Ms Emmanuelle Souzeau

Ms Louise Wilson Smith (April 2015-April 2016, part-time)

Ms Jennifer Washington (from July 2015, part-time)

Adjunct members (research technical staff)

Ms Madison Helm (to Dec 2015)

Mrs Victoria Jones (part-time)

Mrs Lefta Leonardos (part-time)

Ms Bronwyn Ridge (part-time)

Ms Karina Skrzpiec (part-time)

Mr Andrew Brown (to Sept 2015, part-time)

Adjunct members (SA Health/SA Pathology/FMC staff)

Mrs Tamme Golding-Holbrook

Dr Stewart Lake

Ms Cecily Lawson

Dr Raymond Loh

Dr Shilpa Kuruvilla (to August 2016)

Dr Genevieve Oliver

Mr Stephen Pulbrook

Dr Niladri Saha

Dr Deepa Taranath

Dr Jane Wells (to April 2015)

Affiliate, external and emeritus members

Emeritus Professor Douglas Coster (retired)

Dr Helen Brereton (retired)

A/Professor Kathryn Burdon (external)

A/Professor Sonja Klebe (affiliate)

Dr Colm McAlinden (external)

Dr Roman Serebrianik (external)

Research Development Officer

Ms Deb Sullivan

Management Structure and External Advisors

Governance of the Centre operates through an Executive Group comprising Professor Keryn Williams (contact for the University), Professor Jamie Craig, A/Professor Richard Mills, Professor Konrad Pesudovs, Professor Justine Smith and A/Professor Celia Chen, supported by the Centre's senior Research Development Officer (RDO), Ms Deb Sullivan.

The Executive Group meets formally yearly, but is convened more frequently on an *ad hoc* basis when circumstances require. Informal meetings are convened to organise the Centre's Evidence-Based Ophthalmology and Optometry Workshops and to consider joint external grant applications.

Statement of Income and Expenditure: 2015

Income	\$
Income from DVCR	\$100,000
Income from Faculty	\$20,000
Income from other sources (donations, gifts, prizes etc.)	
Total	\$120,000

Expenses	Cost	HEO Level	FTE
Administrative staff	\$71,910.90	HEO6	1.0
Research staff			
Research Development Costs (eg contracted assistance)			
Conference/event support			
Marketing			
Stipends (Students)			
Other research support			
Total	\$71,910.90		

* Funds brought forward from 2014 = \$26,631.64 (debit)

Centre Seminar Program 2015

DATE	SPEAKER	PRESENTATION
3 March	Richard Mills & Jamie Craig	Department Update
10 March	Dr Jude Fitzgerald Ophthalmology	Masters Update
17 March	Dr Tiger Zhou Ophthalmology	PhD Progress Report
24 March	Dr Saulo Martelli School of Computer Science Engineering & Mathematics, FUSA	Modelling human motion and skeletal bio-mechanics for a better health
31 March	Dr Paul Badenoch Flinders Ophthalmology	Safeguarding the recipients of eye tissue from infectious disease transmission
7 April	Dr Stephen Hardy Commercial Manager Flinders Partners Pty Ltd	Making an Impact
14 April	Dr Genevieve Oliver Retinal Fellow Flinders Ophthalmology	Ophthalmology in Timor-Leste
21 April	Dr Miriam Keane ACGR Flinders University	The Australian Corneal Graft Registry 2015 Report Preview
28 April	No meeting	
5 May	Prof. John A. Long President, The Society of Vertebrate Palaeontology Vice President, The Royal Society of South Australia Strategic Professor in Palaeontology School of Biological Sciences Flinders University	Our deep distant origins: resolving the big steps in early vertebrate evolution
12 May	Prof. Mark Taylor Professor of Biomedical Engineering Associate Dean for Research, School of Computer Science, Engineering and Mathematics	The Performance of Hip and Knee Replacement
19 May	Dr Georgia Kaidonis Ophthalmology	ARVO Report/PhD Update
26 May	No meeting	
2 June	Ms Emmanuelle Souzeau Flinders Ophthalmology	Testing Update
9 June	Cancelled	
16 June	Dr Deepa Taranath Flinders Ophthalmology	Update on paediatric myopia

23 June	Dr Shao Jia (Jo) Zhou, PhD School of Agriculture, Food & Wine & FOODplus Research Centre University of Adelaide,	Food fortification to prevent iodine deficiency in Australia
30 June	A/Prof Tony Phillips Flinders Ophthalmology	A Contact Lens Update
7 July	Mr Yazad Irani & Dr Shervi Lie	Report from ARVO meeting 2015
14 July	Semester Break	
21 July	Semester Break	
28 July	Dr Marten Snel Head, Mass Spectrometry Lysosomal Diseases Research Unit SAHMRI	Modern Mass Spectrometry – the Swiss Army knife of life science research
4 August	No meeting	
11 August	Dr Richard Mills Flinders Ophthalmology	Corneal Graft ‘Cross-linking’
18 August	Prof David Day Matthew Flinders Distinguished Professor Flinders University	Mitochondria and oxidative stress in plants
25 August	A/Prof Sonja Klebe Molecular Medicine and Pathology	Curcumin as an adjunct therapy following cancer
1 September	Professor Rob Saint Deputy Vice-Chancellor (Research) Flinders University of SA	Flying in the face of conventional cancer research: understanding the consequences of chromosomal instability
8 September	Dr Shiwani Sharma Senior Research Officer, Ophthalmology Flinders University of SA	Mechanisms of cataract development and beyond
15 September	Dr Laura Weyrich ARC DECRA Fellow Australian Centre for Ancient DNA University of Adelaide	Insights into human health and disease from the Neanderthal microbiome
22 September	Professor Lyle J Palmer Professor of Genetic Epidemiology School of Public Health University of Adelaide	21st Century Epidemiology: Creating platforms for revolutionary science and transformational biology in Eye Health
29 September	No meeting	

6 October	Dr Gayle Robertson MBChB, FRCA, FANZCA Senior Lecturer in Curriculum Development Health Professional Education Unit School of Medicine	"Evolution of LIFT" (Longitudinal Integrated Flinders Training)
13 October	No meeting	
20 October	Dr Karin Nordström Anatomy and Histology, Centre of Neuroscience Flinders University	Hoverfly vision is tuned to natural images, similar to the human visual system
27 October	No meeting	
3 November	RANZCO Conference	
10 November	Catherine Truman Artist-in-Residence, Anatomy & Histology Flinders University	Creative Collaborations
17 November	Ms Sharhbanou Javadiyan Flinders Ophthalmology	Final PhD seminar
24 November	Dr Paul Constable PhD, BSc (Optom) Senior Lecturer, Optometry and Vision Science Ophthalmology, Flinders University	Electrophysiology and RPE possible research links
1 December	No meeting	
8 December	Dr Georgia Kaidonis & Dr Jude Fitzgerald	Presentations from RANZCO 2015